








## Product group index 2020

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<b>Service hotline</b>	<b>199</b>	for general technical questions about your KERN or SAUTER product
<b>System solutions Industry 4.0</b>	<b>200</b>	for all technical questions concerning the interlocking of the latest information and communication technology with our scales, measuring cells and measuring devices as well as questions about KERN software
<b>Industrial scales</b>	<b>333</b>	for all technical questions concerning our basic scales (laboratory & industry), pocket balances, school balances, bench scales, price-computing scales, platform scales, counting scales, counting systems, floor scales, pallet truck scales, crane scales
<b>Laboratory and analytical balances</b>	<b>444</b>	for all technical questions concerning our high quality precision balances, analytical balances (especially with electromagnetic force-compensated measuring systems, tuning fork and high application density)
<b>Medical scales</b>	<b>499</b>	for all technical questions concerning our baby scales, personal scales, handrail scales, chair scales, wheelchair scales, dynamometers
<b>SAUTER measuring instruments</b>	<b>555</b>	for all technical questions concerning our SAUTER measuring instruments, test benches, force measuring accessories (clamps etc.), SAUTER software
<b>Moisture analysers</b>	<b>599</b>	for all technical questions concerning our moisture analyzers
<b>Optical devices</b>	<b>777</b>	for all technical questions concerning our microscopes, microscope cameras, refractometers, etc.

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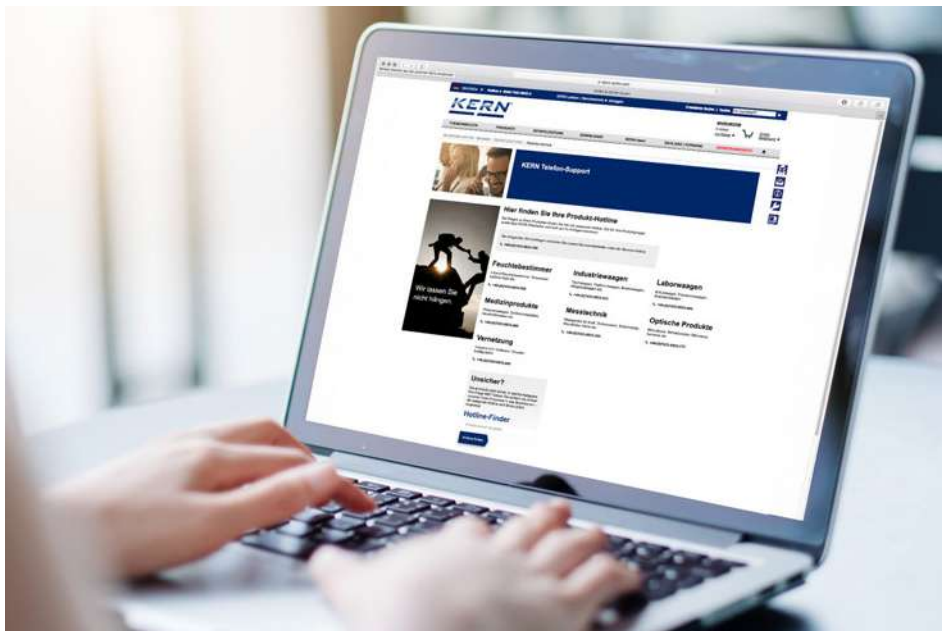
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# KERN Service Portal

[www.kern-sohn.com/  
serviceportal](http://www.kern-sohn.com/serviceportal)



**Technical contact enquiries** this is where you can ask us a technical question about your product or request technical support for your product



**Fast service**  
We deliver needed spare parts usually within 48 hours plus transport



At any time **status inquiry** from your device with your repair number and your password for your repair process

## The KERN Service Portal – We won't let you down!

With a device from KERN you can be sure of the highest quality. But if you have any complaints at all, you can register your repair at [www.kern-sohn.com/serviceportal](http://www.kern-sohn.com/serviceportal) and download a consignment note for your service return.

Your advantages: Accelerated processing as well as online tracking of the repair status.

Our reliable KERN service personnel will do everything within their power to make sure your precision balances and measuring devices are back in operation as quickly as possible.

Also 2020 we have many new models for you in our program

## School balance KERN EHA

The compact all-round model with robust stainless steel weighing plate for use in laboratories, industries and for teaching



Further details ▶ Page 22  
from € 65,-

## Analytical balance KERN ACS/ACJ

The bestseller in analytical balances, with high-quality single-cell weighing system, also with EC type approval [M]



Further details ▶ Page 40  
from € 1050,-

## Counting system KERN CCA

High-resolution counting system with EC type approval [M] to count the smallest parts in the largest quantities, counting resolution up to 300.000.000 points



Further details ▶ Page 90  
from € 890,-

## Pallet scale KERN UID

High resolution dual-range pallet scale with EC type approval [M] and a wide range of data interfaces



Further details ▶ Page 126  
from € 920,-

## Display-unit (DIN-rail module) KERN CE Hx

Compact display device for recording weighing data using strain gauge load cells, e.g. in industrial applications. The configuration of the module can be carried out conveniently via a connected PC with the supplied software



Further details ▶ Page 135  
only € 480,-

## Messzellen

Measuring cells for setting up individual weighing systems, test benches or individual process lines for force and mass measurements



Further details ▶ Page 146  
from € 24,-

## Crane scale KERN HFD

Robust, high-resolution crane scale up to 12 tons, now also with protection type IP67 or EC type approval [M] (on request)



Further details ▶ Page 166  
from € 370,-

## Dot matrix and thermal printers KERN YKG-01/YKH-01

High-quality, fast Dot-Matrix resp. thermal printers for the retail trade, gastronomy and for restaurant kitchens



Further details ▶ Page 173  
from € 370,-

## KERN scales and components with KCP

### Aim & advantages:

Searching and remote control of the balances using external control devices or computers with the KERN Communication Protocol (KCP).

KCP is a standardised interface command structure for KERN balances and other instruments which allows you to recall and manage all relevant parameters and device functions.

You can therefore simply connect KERN devices with KCP to computers, industrial control systems and other digital systems. In a large number of cases the KCP is compatible with the MT-SICS protocol.

### KERN models with KCP:



#### A/D converter box YKV-01/YKV-02

Modern A/D converter for the rapid recording of weighing data and forwarding it to the most varied output channels such as tablets, networks, SPS controllers, etc.

**Further details ▶ Page 134**



#### Digital platform KDP

Universal weighing platforms for flexible connection in process chains

**Further details ▶ Page 136**



#### Laboratory balance PFB

Quick-displaying precision balance, now with larger housing for more secure footing

**Further details ▶ Page 26**



#### Compact laboratory balance EWJ

High-quality precision balance with automatic internal adjustment, also with EC type approval [M]

**Further details ▶ Page 28**



#### Bench scale GAT

KERN Easy-Touch bench scale – the intuitive way to weigh

**Further details ▶ Page 60/61**



#### Counting scale CPB

Professional model, also with EC type approval [M], counting resolution up to 60,000 points

**Further details ▶ Page 82**



#### Counting scale CFS

Professional, high-resolution counting scale with 100 item memories and second balance interface, counting resolution up to 75,000 points

**Further details ▶ Page 84**



#### Counting scale IFS

Industrial counting scale with convenient decimal keypad for easy data entry – now also with EC type approval [M], counting resolution up to 75000 points

**Further details ▶ Page 86**



#### Counting system CCS

Counting system to count the smallest parts in the largest quantities, counting resolution up to 999,999 points

**Further details ▶ Page 88**



#### Platform scale SFB

Stainless steel platform scales with IP65/67 protection, also with XL platform or EC type approval [M]

**Further details ▶ Page 72**



#### Platform scale EOC

All-round parcel scale with practical Flip/Flop display device for greatest ease of use

**Further details ▶ Page 100/101**



#### Platform scale IOC

All-round platform scale with a range of communication options and EC type approval [M]

**Further details ▶ Page 102**





### Platform scale IFB

High-resolution industrial scale in heavy version with EC type approval [M], now also up to [Max] 600 kg

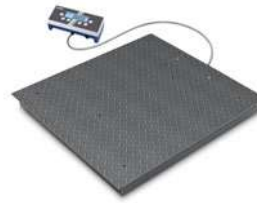
Further details ▶ Page 103



### Platform scale IFT

KERN Easy-Touch platform scale – the intuitive way to weigh

Further details ▶ Page 110/111



### Floor scale BID

Floor scale with EC type approval [M] and the best price-performance ratio

Further details ▶ Page 116/117



### Floor scale BFB

Weighing bridge with screwed-on weighing plate (IP67) and XXL display device, with EC type approval [M]

Further details ▶ Page 118/119



### Floor scale BFA

Weighing bridge with screwed-on weighing plate (IP67) and stainless steel display device (IP68), with EC type approval [M]

Further details ▶ Page 120



### Floor scale BFN

Stainless steel weighing bridge with screwed-on weighing plate (IP68) and stainless steel display device (IP65), with EC type approval [M]

Further details ▶ Page 121



### Weighing beams UFA

Highly versatile weighing beams (IP67) for large loads to 6 t

Further details ▶ Page 124



### Pallet scale UFB

Pallet scale with steel load support (IP67) and EC type approval [M]

Further details ▶ Page 127



### Pallet scale UFC

Pallet scale with steel load support (IP67) and stainless steel display device (IP65), with EC type approval [M]

Further details ▶ Page 128



### Drive-through scale NFB

Drive-through scale (IP67) with XXL display device and EC type approval [M]

Further details ▶ Page 130



### Drive-through scale NFN

Stainless steel drive-through scale (IP68) with stainless steel display device (IP65), with EC type approval [M]

Further details ▶ Page 131



### Display device KFB-TM

Display device with large digits – easy to read

Further details ▶ Page 131



### Display device KFS-TM

Professional indicator with 3 displays, also with EC type approval [M]

Further details ▶ Page 139



### Display device KFN-TM

Stainless steel display device with IP65 protection and superior display size

Further details ▶ Page 141



### Display device KIB-TM

Practical Flip/Flop display device for greatest ease of use

Further details ▶ Page 140



### Display device KFT-TM

KERN Easy-Touch display device – the intuitive way to weigh

Further details ▶ see internet































## Pocket balances

### Pocket size precision

Pocket balances are the ideal helpers whenever mobility and high precision are required. Since they have fewer keys, operation is simple and fast. Different weighing units stored in the pocket balance, such as g, oz, ct, gn, etc., make them universally usable. An integrated calculator allows you to use the measured weight immediately in calculations, to e.g. determine a price, quantity, average value and much more. Compact in size and well protected with a flap or protective cover, which can be used as a convenient taring container, the pocket balance is always a useful tool for mobile weighing.


- In production, to control of production weights or during the picking of small parts
- In quality control for the quick testing of small parts like plastic parts from injection moulding machines, milled parts, screws, etc.
- For mobile weighing, on-site sampling, and fast analysis wherever there's no power outlet
- In hobbies and sports, e.g. when filling black powder, weighing parts from modelling kits etc.
- In commerce, for the fast determination of the weights of coins, jewellery, precious stones, etc.
- In veterinary sector for the weighing of small animals, the mixing of food, etc.
- In the food sector for the preparation of spice or tea mixes, for the weighing of food in line with a diet sheet.

### Quick-Finder Pocket balances

Readability [d] g	Weighing capacity [Max] g	Model  KERN	Price excl. of VAT ex works €	Page			
0,001	20	TAB 20-3 	75,-	12	1		
0,001	50	TGD 50-3CS05 	260,-*	12	1		
0,002	10	CM 50-C2N 	90,-	12	1		
0,01	60	CM 60-2N	79,-	11	1		
0,01	150	TGC 150-2S05	99,-*	11	1		
0,1	150	TEE 150-1	40,-	11	1		
0,1	150	CM 150-1N	50,-	11	1		
0,1	200	TCB 200-1	52,-	11	1		
0,1	320	CM 320-1N	55,-	11	1		
0,1	500	TGC 500-1S05	99,-*	11	1		
1	1000	CM 1K1N	52,-	11	1		
1	1000	TGC 1K-3S05	99,-*	11	1		

News 2020

\*Price set of 5 units

 = Carat balances

● = standard

○ = option

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only €

# 52,-

\* Price set of 5 units  
excl. of VAT ex works

- ▷ Simple and convenient 4-key operation
- ▷ Innovative touchscreen
- ▷ Weighing pan standard
- ▷ Also ideal as a gift for your customers

# HIGHLIGHT



**KERN TEE**

Designer pocket balance at a bargain price

**KERN TCB**

This is where the fun starts with pocket format weighing

**KERN CM**

Pocket balance with integrated pocket calculator

**KERN TGC**

Slim pocket balance with large stainless steel weighing plate and practical tare pan

STANDARD

CAL EXT BATT 1 DAY

STANDARD

CAL EXT BATT 1 DAY

STANDARD

CAL EXT UNIT BATT 1 DAY

STANDARD

CAL EXT UNIT BATT 1 DAY

OPTION

DAkKS +3 DAYS

OPTION

DAkKS +3 DAYS

OPTION

DAkKS +3 DAYS

OPTION

DAkKS +3 DAYS

- Simple and convenient 2-key operation
- Cover made of shock proof plastic as protection against pressure and dust. Can also be used as a tare cup

- Simple and convenient 2-key operation
- Small and handy
- Transport box and weighing pan included
- Revolving weighing plate (as overload protection)

- Simple and convenient 4-key operation
- Hard case cover as protection against pressure and dust
- Robust, handy, well protected
- Integrated calculator

- High-resolution pocket balance with particularly rapid reaction and stabilisation time, which means that you can work extremely efficiently
- Particularly flat design
- Cover made of shock proof plastic as protection against pressure and dust. Can also be used as a tare cup
- Stainless steel weighing plate, which makes cleaning easy and hygienic
- Note: The models are only delivered in a set of 5 units. i.e. the prices given in the table refer to a delivery of 5 items. Cannot be delivered individually. The calibration prices given here refer to calibration of a single balance

Tip: KERN pocket scales are also ideal as a customer gift or for personalized marketing and sales campaigns. We are happy to print your logo on the cover, the lid or the packaging, from 100 pieces. Please inquire details

KERN	TEE 150-1*	TCB 200-1*	CM 60-2N	CM 150-1N	CM 320-1N	CM 1K 1N	TGC 150-2S05	TGC 500-1S05	TGC 1K-3S05
<b>Weighing capacity [Max] g</b>	150 g	200 g	60 g	150 g	320 g	1000 g	150 g	500 g	1000 g
<b>Readability [d]</b>	0,1 g	0,1 g	0,01 g	0,1 g	0,1 g	1 g	0,01 g	0,1 g	1 g
<b>LCD display</b>	backlit, digit height 9 mm	digit height 9 mm	backlit, digit height 12 mm			backlit, digit height 12 mm			
<b>Dimensions of weighing plate</b>	W×D 60×64 mm	ø 80 mm	W×D 70×80 mm			ø 81 mm			
<b>Overall dimensions</b>	W×D×H 67×100×22 mm	ø×H 80×14 mm	W×D×H 85×130×25 mm			W×D×H 100×130×18 mm			
<b>Power supply</b>	Batteries included, 2×1,5 V AAA, operating time up to 50 h	Batteries included, 2×LR 44, AUTO-OFF function to preserve battery life	Batteries included, 2×1,5 V AAA, AUTO-OFF function to preserve battery life, operating time up to 33 h			Batteries included, 2× CR2032, operating time up to 33 h			
<b>Net weight</b>	100 g	50 g	180 g			200 g			
<b>Permissible ambient temperature</b>	5 °C/35 °C					0 °C/40 °C			
<b>Price €, excl. of VAT, ex works</b>	40,-	52,-	79,-	50,-	55,-	52,-	99,-*	99,-*	99,-*
<b>Option DAkKS Calibr. Certificate</b>	963-127, 72,-								

\* ONLY WHILE STOCKS LAST!

\*Price set of 5 units excl. of VAT exworks



**KERN CM-C**

Pocket balance with carat display – ideal for jewellers

**KERN TAB**

High-precision pocket carat balance for jewellers and travelling salesmen

**KERN TGD**

Compact pocket carat balance for precision weighing of jewellery and precious stones

STANDARD

- CAL EXT
- UNIT
- BATT
- 1 DAY

STANDARD

- CAL EXT
- UNIT
- BATT
- 1 DAY

STANDARD

- CAL EXT
- UNIT
- BATT
- 1 DAY

OPTION

- DAkKS
- +3 DAYS

OPTION

- DAkKS
- +3 DAYS

OPTION

- DAkKS
- +3 DAYS

- **Hard case cover** as protection against pressure and dust
- **Hard case cover as protection against pressure and dust**
- **Adjusting weight standard**
- **Draft shield** against air movements standard
- **Weighing pan standard**

- **Simple and convenient 4-key operation**
- **Can be switched over from g to ct, gn at the touch of a key**
- **Hard case cover** as protection against pressure and dust
- **Adjusting weight and weighing pan standard**
- **Powder scale with Grain division (gn)**, ideal for sport shooters, reloaders etc. for self-filling cartridge cases

- **Simple and convenient 4-key operation**
- **Can be switched over from g to ct, gn, dwt, ozt, oz at the touch of a key**
- **Innovative touchscreen:** Large touch-sensitive, backlit touch display with very good contrast for easy operation and convenient reading
- **Hard case cover** as protection against pressure and dust
- **Stainless steel weighing plate**, which makes cleaning easy and hygienic
- **Weighing pan standard**
- **Powder scale with Grain division (gn)**, ideal for sport shooters, reloaders etc. for self-filling cartridge cases
- USB cable for power supply as standard
- **1** Delivered in appealing packaging
- **Note:** The models are only delivered in a set of 5 units. i.e. the prices given in the table refer to a delivery of 5 items. Cannot be delivered individually. The calibration prices given here refer to calibration of a single balance

**Tip:** KERN pocket scales are also ideal as a customer gift or for personalized marketing and sales campaigns. We are happy to print your logo on the cover, the lid or the packaging, from 100 pieces. Please inquire details

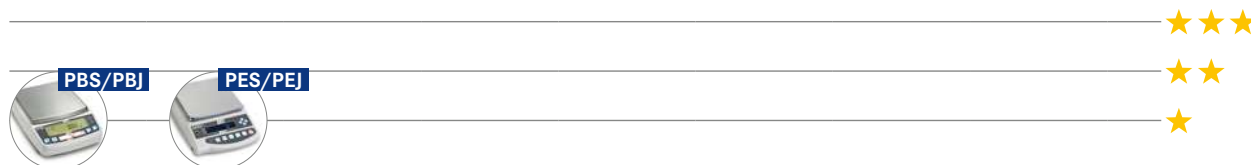
KERN	CM 50-C2N	TAB 20-3	TGD 50-3CS05
<b>Weighing capacity [Max] g</b>	10 g   50 ct	20 g   100 ct	50 g   250 ct
<b>Readability [d] [d]</b>	0,002 g   0,01 ct	0,001 g   0,005 ct	0,001 g   0,005 ct
<b>LCD display</b>	digit height 9 mm	backlit, digit height 9 mm	backlit, digit height 12 mm
<b>Dimensions of weighing plate</b>	W×D 50×40 mm	W×D 36×42 mm	ø 65 mm
<b>Overall dimensions</b>	W×D×H 85×130×25 mm	W×D×H 95×133×33 mm	W×D×H 96×149×36 mm
<b>Power supply</b>	Batteries included, 2×1,5 V AAA, AUTO-OFF function to preserve battery life, can be switched off, operating time up to 30 h	Batteries included, 4×1,5 V AAA, operating time up to 150 h without backlight	
<b>Net weight</b>	200 g		
<b>Permissible ambient temperature</b>	5 °C/35 °C	10 °C/30 °C	5 °C/35 °C
<b>Price €, excl. of VAT, ex works</b>	<b>90,-</b>	<b>75,-</b>	<b>260,-*</b>
<b>Option DAkKS Calibr. Certificate</b>	963-127, 72,-		

\*Price set of 5 units excl. of VAT exworks

## Precision balances

Here you'll find a complete summary of the KERN laboratory scales series and their positioning within the precision scales segment on the basis of application, price-performance ratio and functional volume

### PREMIUM LABORATORY BALANCES



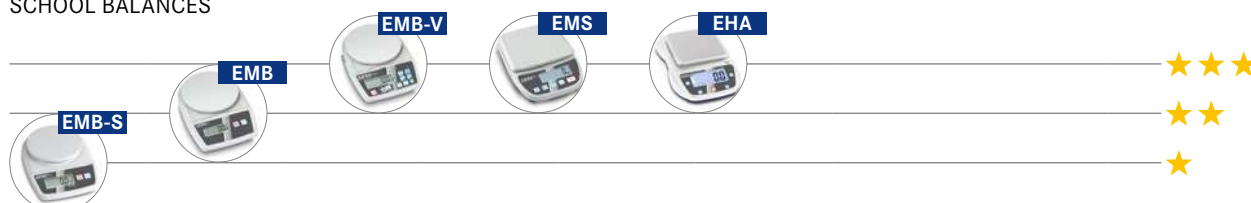
### STANDARD LABORATORY BALANCES



### BASIC LABORATORY BALANCES



### SCHOOL BALANCES



**Corinna Klaass**

Product specialist Precision balances

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- ▷ Large, shock-resistant stainless steel weighing plate
- ▷ Particularly flat design
- ▷ Large, bright LCD display
- ▷ Simple operation, suitable for school and teaching use



# HIGHLIGHT

## Precision balances

### KERN school balances

are entry-level devices in the field of laboratory balances, and they cover basic applications. They feature simple operation and the very best price/performance ratio. In addition they usually can be stacked and can also be operated by battery, as an alternative to mains power, which means that they have the flexibility to be used in different locations.

### KERN Basic laboratory balances

are used in laboratory applications mostly as single-user balances for sample preparation, etc. They are fitted with all useful laboratory functions which will support the user in a helpful way. With their strain gauge measuring principle, they are used anywhere where individual weighings are carried out, such as, for example, checkweighing. These devices are often connected to printers or local PCs using the standard, integrated RS-232 data interface.

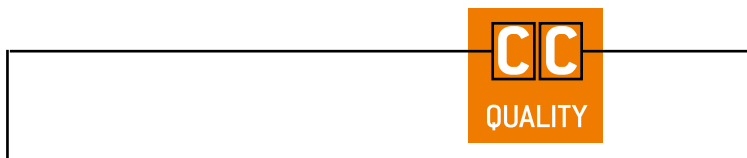
### KERN Basic standard laboratory balances

offer you all the tools you would need for effective and accurate work in your laboratory environment. All important laboratory functions such as a recipe weighing function or data interfaces are on board at all times. But above all, the high-quality measuring principles of these balances such as force compensation or tuning fork measuring principle, allow them to be used in dosing procedures with very small weight changes and rapid display. In addition these balances are often fitted with automatic internal adjustment, which permits calibrated operation and means the balance can be used in any location.

### KERN premium laboratory balances

are right at the top of the precision balance segment. The numerous equipment features of the standard balances are complemented by high-quality materials with robust, sturdy construction, high-quality, high-performance weighing systems, optimised operating sequences, speed benefits and in some cases, the most modern touchscreen technology. With its touchscreen technology a premium laboratory balance will support your users in their typical procedures. In this way these scales can be operated more efficiently and quickly than devices from other quality classes. In particular these balances are used in demanding laboratory applications and anywhere where the environmental conditions are not ideal because of vibrations or other interference, but where, naturally, the balance is expected to provide accurate weighing results. Another field of application for these balances is the pharmaceutical industry, which is subject to particularly demanding requirements and authorities such as, for example, the FDA (Food and Drug Administration).

**In order to make it easier for you to make the right choice of KERN balance, we have included a quality code for each model, which is made up of two quality features and will give you technical data and pictograms in addition to the product features. This will help you to make the decision on the perfect balance for your application:**



#### The stability quality feature

How quickly and sensitively weighing results are displayed? This quality feature on the basis of the information on the housing material and total weight of the balance, the stability quality feature gives you an indication of the types of application for which the balance is particularly well-suited. Due to their low weight, materials such as plastic allows structures which are particularly advantageous for mobile applications. The appeal of models which are used to process high-quality, heavy material, such as, for example, aluminium casting or steel, is their durability and robustness and the fact that they are less susceptible to vibrations. A high level of stability allows rapid, repeatable weighing results.

Categorisation in **A, B, C, best value: C**

#### The dosing level quality feature

comes from the values for reaction time, stabilisation time and behaviour during long-term weighing procedures. These parameters give information about how well-suited a model is for fine dosing, amongst other functions. In particular with these dosing procedures, the balance performs a balancing act between filtering out disruptive environmental influences, such as, for example, vibrations on the one hand, and the highest level of accuracy as well as rapid display when weighing goods right down to the smallest division [d] on the other hand. In addition this value is printed, whether drift effects influence the continuous measurement in long-term trials. Categorisation into **A, B, C, best value: C**

If you have further questions on the subject of “Which balance will be best for my application?”, then please ask your personal KERN product specialist who will be happy to help you.


# Quick-Finder Precision balances

Readability [d] g	Weighing capacity [Max] g	Model  KERN	Price excl. of VAT ex works €	Page	Quality code  QUALITY		For an explanation on the pictos, see front flap									
0,001	60	440-21A	350,-	25	AA	1				●		●		●		
0,001	100	EMB 100-3	195,-	19	AA	1				●					●	
0,001	100	PCB 100-3	265,-	24	AA	1				●					●	
0,001	120	PFB 120-3	280,-	26	AA	1				●						
0,001	120	KB 120-3N	270,-	27	AA	1				●					●	
0,001	200	EMB 200-3	210,-	19	AA	1				●					●	
0,001	200	EMB 200-3V	250,-	20	AA	1				●					●	
0,001	200	PFB 200-3	285,-	26	AA	1				●						
0,001	220	EW 220-3NM	620,-	32	AB	1				●					●	
0,001	220	EG 220-3NM	760,-	32	BB	1	○			●					●	
0,001	240	KB 240-3N	280,-	27	AA	1				●					●	
0,001	240	572-30	520,-	29	BA	1				●					●	
0,001	250	PCD 250-3	305,-	23	AA	1				●					●	
0,001	250	PCB 250-3	290,-	24	AA	1				●					●	
0,001	300	EMS 300-3	260,-	21	AA	1				●					●	
0,001	300	PFB 300-3	320,-	26	BA	1				●						
0,001	300	EWJ 300-3	450,-	28	BA	1				●					●	
0,001	300	EWJ 300-3H	490,-	28	BA	1				●					●	
0,001	300	572-31	530,-	29	BA	1				●					●	
0,001	350	PCD 300-3	350,-	23	AA	1				●					●	
0,001	350	PCB 350-3	300,-	24	AA	1				●					●	
0,001	360	KB 360-3N	290,-	27	AA	1				●					●	
0,001	420	572-32	540,-	29	BA	1				●					●	
0,001	420	PLS 420-3F	590,-	30	BA	1				●					●	
0,001	420	PLJ 420-3F	700,-	30	BA	1				●						
0,001	420	EW 420-3NM	690,-	32	AB	1				●					●	
0,001	420	EG 420-3NM	830,-	32	BB	1	○			●					●	
0,001	620	PNS 600-3	620,-	31	BB	1				●						
0,001	620	PNJ 600-3M	740,-	31	BB	1	○			●						
0,001	620	EW 620-3NM	770,-	32	AB	1				●					●	
0,001	620	EG 620-3NM	930,-	32	BB	1	○			●					●	
0,001	620	PBS 620-3M	1370,-	33	BC	1				●						
0,001	620	PBJ 620-3M	1610,-	33	BC	1	○			●						
0,001	620	PES 620-3M	1220,-	34	BB	1				●					●	
0,001	620	PEJ 620-3M	1480,-	34	BB	1	○			●						
0,001	720	PLS 720-3A	840,-	30	BC	1				●						
0,001	720	PLJ 720-3A	980,-	30	CC	1				●						
0,001	720	PLJ 720-3AM	980,-	30	CC	1	○			●						
0,001	1200	PLS 1200-3A	880,-	30	BC	1				●						
0,001	1200	PLJ 1200-3A	1000,-	30	CC	1				●						
0,001	2100	PLJ 2000-3A	1650,-	30	CC	1				●						
0,01	200	EMB 200-2	125,-	19	AA	1				●					●	
0,01	200	PCB 200-2	230,-	24	AA	1				●					●	
0,01	200	440-33N	290,-	25	AA	1				●					●	
0,01	400	440-35N	330,-	25	AA	1				●					●	
0,01	500	EMB 500-2S	120,-	18	AA	1				●						
0,01	500	EHA 500-2	90,-	22	AA	1				●						
0,01	600	EMB 600-2	160,-	19	AA	1				●					●	
0,01	600	440-35A	365,-	25	AA	1				●					●	
0,01	600	PFB 600-2	245,-	26	BA	1				●						
0,01	600	EWJ 600-2SM	350,-	28	BA	1	○			●					●	
0,01	600	EWJ 600-2M	360,-	28	BA	1	○			●					●	
0,01	650	KB 650-2N	250,-	27	BA	1				●					●	
0,01	650	573-34	530,-	29	BA	1				●					●	
0,01	820	EW 820-2NM	540,-	32	BB	1				●					●	
0,01	1000	EMB 1000-2	195,-	19	AA	1				●					●	
0,01	1000	PCB 1000-2	255,-	24	AA	1				●					●	
0,01	1200	PFB 1200-2	245,-	26	AA	1				●						
0,01	1200	KB 1200-2N	260,-	27	BA	1				●					●	
0,01	1600	572-33	490,-	29	BA	1				●					●	
0,01	2000	EMB 2000-2	205,-	19	AA	1				●					●	
0,01	2000	EMB 2000-2V	250,-	20	AA	1				●					●	
0,01	2000	PFB 2000-2	260,-	26	BA	1				●						
0,01	2000	KB 2000-2N	260,-	27	BA	1				●					●	
0,01	2200	EW 2200-2NM	660,-	32	BB	1				●					●	
0,01	2200	EG 2200-2NM	800,-	32	BB	1	○			●					●	
0,01	2200	PES 2200-2M	840,-	34	BB	1				●					●	
0,01	2200	PEJ 2200-2M	1060,-	34	CB	1	○			●					●	
0,01	2400	KB 2400-2N	270,-	27	BA	1				●					●	
0,01	2400	572-35	500,-	29	BA	1				●					●	
0,01	2500	PCD 2500-2	295,-	23	BA	1				●					●	





# Quick-Finder Precision balances

Readability [d] g	Weighing capacity [Max] g	Model  KERN	Price excl. of VAT ex works €	Page	Quality code  QUALITY										
						For an explanation on the pictos, see front flap									
0,1	31000	PES 31000-1M	2050,-	34	CB	1				●		●	●	●	○
1	2000	EMB 2000-OSS05	170,-*	18	AA	1				●				●	
1	2200	EMB 2200-0	57,-	19	AA	1				●				●	
1	3000	EHA 3000-0	65,-	22	AA	1				●				●	
1	4000	440-51N	160,-	25	AA	1				●		●		●	○
1	5000	EMB 5000-OSS05	190,-*	18	AA	1				●				●	
1	5200	EMB 5.2K1	60,-	19	AA	1				●				●	
1	6000	EMS 6K1	80,-	21	AA	1				●			●	●	
1	6000	PCB 6000-0	130,-	24	BA	1				●		●		●	○
1	6000	440-53N	180,-	25	AA	1				●		●		●	○
1	10000	PCD 10K-3	190,-	23	BA	1				●		●		●	○
1	12000	EMS 12K1	85,-	21	AA	1				●		●		●	
5	5200	EMB 5.2K5	55,-	19	AA	1				●				●	

News 2020

\* Price set of 5 units

● = standard ○ = option

02

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## Straight to the target!

Get straight to the right product. Use our new topic area search. Here you will quickly find products which suit your particular area of expertise.



**AA**  
QUALITY

**5x**

Models with addition -S05



**The price breaker!**

Cheapest Laboratory balance in the KERN assortment

from €

**36,-\*\***

\*\* unit price within the set of 5

The space miracle – stackable school balance for experiment-based teaching

**Features**

- **Simple and convenient 2-key operation**
- **Tare function** facilitates formulation work
- **Particularly flat design**
- **Secure and non-slip positioning** with rubber feet
- **1** Stackable for space-saving storage
- **2** A practical **transport safety lock** prevents the weighing technology from being overloaded when stacked, stored or during transportation

**Technical data**

- Large LCD display, digit height 15 mm
- Dimensions weighing surface, plastic,  $\varnothing$  120 mm
- Overall dimensions WxDxH 145x205x45 mm
- Optional battery operation, 2x 1.5 V AA, standard, operating time up to 35 h, AUTO-OFF function to preserve the battery
- Net weight approx. 0,50 kg
- Permissible ambient temperature 5 °C/35 °C
- **Note:** Models with addition -S05 are supplied in 5 pieces. This means that the price given in the table refers to a delivery of 5 items. Cannot be delivered individually. The calibration prices given here refer to calibration of a single balance

**Accessories**

- **External universal mains adapter**, with universal input and optional input socket adapters for EU, GB, USA, KERN YKA-03N, € 32,-

STANDARD



OPTION



Model	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Quantity delivered (balance)	Price excl. of VAT ex works €	Option		Quantity delivered (DAkkS Calibr. Certificate)
							DAkkS KERN	€	
EMB 200-1SS05	200	0,1	0,2	± 0,3	5	170,-* ↓	963-127	72,-	1
EMB 500-2S <small>NEW</small>	500	0,01	0,02	± 0,03	1	120,-*	963-127	72,-	1
EMB 500-1SS05	500	0,1	0,2	± 0,3	5	190,-* ↓	963-127	72,-	1
EMB 3000-1S	3000	0,1	0,2	± 0,3	1	105,-*	963-127	72,-	1
EMB 2000-OSS05	2000	1	2	± 3	5	170,-* ↓	963-127	72,-	1
EMB 5000-OSS05	5000	1	2	± 3	5	190,-* ↓	963-127	72,-	1

NEW New model

↓ Price reduction

\* Price set of 5 units



## Entry level laboratory balance with tremendous weighing performance

### Features

- **Simple and convenient 2-key operation**
- **Tare function** facilitates formulation work
- **Particularly flat design**
- **Ready for use:** Batteries included
- **1 Ring-shaped draught shield** standard, only for models with weighing plate size **A**, weighing space  $\phi \times H$  96×35 mm
- **Hook for underfloor weighing** standard
- **2 Note:** KERN EMB 500-1BE Black Edition
- **Note:** With the optional auxiliary set for density determination KERN YDB-01 also well suited for school and teaching operation

### Technical data

- Large LCD display, digit height 15 mm
- Dimensions weighing surface, plastic, with conductive lacquer
  - A**  $\phi$  82 mm
  - B**  $\phi$  105 mm
  - C**  $\phi$  150 mm, see larger picture
- Weighing plate material
  - A** plastic, with conductive lacquer
  - B, C** plastic
- Net weight approx. 0,75 kg
- Batteries included, 9 V block or 2×1.5 V AA
- Permissible ambient temperature 5 °C/35 °C

### Accessories

- **Stainless steel weighing plate**, only for models with weighing plate size **B**, KERN EMB-A02, **€ 26,-**
- **3 Stack frame** for space-saving storage of precision balances from the KERN EMB range, scope of delivery 5 pieces, for models with housing dimensions W×D×H 170×244×39 mm, KERN EMB-A07, **€ 60,-** 170×244×52 mm, KERN EMB-A09, **€ 75,-**
- **External universal mains adapter**, with universal input and optional input socket adapters for EU, GB, USA, KERN YKA-03N, **€ 32,-**
- **4 Ancillary kit for density determination** of liquids and solids with density > 1. Scope of supplies: Weighing plate ( $\phi$  102 mm), hook (H 139 mm), suitable for models with weighing plate size **A**, KERN YDB-04, **€ 25,-**

STANDARD

CAL EXT UNIT UNDER BATT DMS 1 DAY

OPTION

B MULTI DAKKS +3 DAYS

Model	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate	
							DAKKS KERN	€
KERN								
EMB 100-3	100	0,001	0,001	± 0,005	A	195,-	963-127	72,-
EMB 200-3	200	0,001	0,001	± 0,005	A	210,-	963-127	72,-
EMB 200-2	200	0,01	0,01	± 0,02	B	125,-	963-127	72,-
EMB 600-2	600	0,01	0,01	± 0,03	B	160,-	963-127	72,-
EMB 1000-2	1000	0,01	0,01	± 0,05	C	195,-	963-127	72,-
EMB 2000-2	2000	0,01	0,01	± 0,05	C	205,-	963-127	72,-
EMB 500-1	500	0,1	0,1	± 0,2	C	55,-	963-127	72,-
EMB 500-1BE	500	0,1	0,1	± 0,2	C	55,-	963-127	72,-
EMB 1200-1	1200	0,1	0,1	± 0,3	C	78,-	963-127	72,-
EMB 3000-1	3000	0,1	0,1	± 0,3	C	125,-	963-127	72,-
EMB 6000-1	6000	0,1	0,1	± 0,3	C	160,-	963-128	88,-
EMB 2200-0	2200	1	1	± 2	C	57,-	963-127	72,-
EMB 5.2K1	5200	1	1	± 3	C	60,-	963-128	88,-
EMB 5.2K5	5200	5	5	± 10	C	55,-	963-128	88,-



## School balance with integrated density determination function

### Features

- **Density determination made easy!** Thanks to the self-explanatory, graphic-assisted control panel, the density of solids and liquids can be determined in seconds, making them ideal for use in schools and universities
- **Self-explanatory graphic control panel**, the workings steps can be understood immediately, even without operating instructions
  - no learning time = reduces costs
  - ideal for untrained users
  - visualised process avoids operating errors
- **The 4 steps are carried out from left to right:**
  - 1 Tare the balance by pressing the [TARE] key
  - 2 Select density determination mode (solids/liquids)
  - 3 Weighing of samples/plummetts in air
  - 4 Weighing of samples/plummetts in liquid. The density will be shown on the display right away
- **Particularly flat design**
- **Hook for underfloor weighing** standard
- **Ready for use:** Batteries included, 9 V-Block, operating time up to 12 h, AUTO-OFF function to preserve the battery

**Note: Balance and appropriate set for density determination should be ordered at the same time, see accessories**

### Technical data

- Large LCD display, digit height 15 mm
- Dimensions weighing surface, plastic
  - A  $\varnothing$  82 mm
  - B  $\varnothing$  150 mm, see larger picture
- Overall dimensions WxDxH 175x245x54 mm
- Net weight approx. 0,85 kg
- Permissible ambient temperature 5 °C/35 °C
- **Now also with carat weighing unit:**
  - EMB 200-3V: 1000 ct/0,005 ct
  - EMB 2000-2V: 10000 ct/0,05 ct

### Accessories

#### KERN EMB 200-3V:

- **5 Ancillary kit for density determination** of liquids and solids with density > 1. Scope of supplies: Weighing plate ( $\varnothing$  102 mm), hook (H 139 mm), suitable for models with weighing plate size A, KERN YDB-04, € 25,-
- **6 Set for density determination** of liquids and solids with density  $\leq/\geq$  1. Scope of delivery: Weighing plate, beaker (Hx $\varnothing$  71x51 mm), sample holder, plummet, KERN YDB-01, € 215,-
- **DAkks-Calibration certificate** for the plummet (20 g), KERN 962-335V, € 143,-

#### KERN EMB 2000-2V:

- **7 Set for density determination** of liquids and solids with density  $\leq/\geq$  1. Scope of delivery: Weighing plate, beaker (Hx $\varnothing$  135x100 mm), sample holder, plummet, KERN YDB-02, € 330,-
- **DAkks-Calibration certificate** for the plummet (200 g), KERN 962-338V, € 141,-

#### STANDARD



#### OPTION



Model	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option DAkks Calibr. Certificate	
							DAKKS KERN	€
EMB 200-3V	200	0,001	0,002	$\pm$ 0,005	A	250,-	963-127	72,-
EMB 2000-2V	2000	0,01	0,02	$\pm$ 0,05	B	250,-	963-127	72,-



## Entry level model in the low-cost range with large weighing plate

### Features

- Especially suitable for use in schools and universities, for example for biology, chemistry, physics
- **Large, shock proof weighing plate made of plastic, with conductive lacquer**
- **Particularly flat design**
- **Ergonomically optimised key pad** with large keys and a high-contrast LCD display
- **Secure and non-slip positioning** with rubber feet
- **Adjusting program CAL** for quick setting of the balance accuracy, external test weights at an additional price, see *Test weights*
- **1 Draught shield** standard for models with weighing plate size **A**, weighing space W×D×H 145×145×65 mm

### Technical data

- LCD display, digit height 25 mm
- Dimensions weighing surface
  - A** ø 105 mm
  - B** W×D 175×190 mm, see larger picture
- Weighing plate material
  - A** plastic, with conductive lacquer
  - B** plastic
- Overall dimensions W×D×H 200×280×63 mm (without draught shield)
- Optional battery operation, 9 V-Block not included in scope of delivery, operating time up to 40 h
- External mains adapter standard
- Net weight approx. 1,4 kg
- Permissible ambient temperature 5 °C/35 °C

### Accessories

- **2 Stainless steel weighing plate**, only for models with weighing plate size **B**, KERN EMS-A01, € 30,-

#### STANDARD



#### OPTION



Model	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Quality code	Price excl. of VAT ex works €	Option	
								DAKKS KERN	DAKKS Calibr. Certificate €
KERN EMS 300-3	300	0,001	0,002	± 0,005	<b>A</b>	AA	260,-	963-127	72,-
EMS 3000-2	3000	0,01	0,02	± 0,05	<b>B</b>	BA	240,-	963-127	72,-
EMS 6K0.1	6000	0,1	0,1	± 0,3	<b>B</b>	AA	160,-	963-128	88,-
EMS 12K0.1	12000	0,1	0,1	± 0,3	<b>B</b>	BA	205,-	963-128	88,-
EMS 6K1	6000	1	1	± 3	<b>B</b>	AA	80,-	963-128	88,-
EMS 12K1	12000	1	1	± 3	<b>B</b>	AA	85,-	963-128	88,-

**NEW** **AA**  
QUALITY



02



The compact all-round model with robust stainless steel weighing plate for use in laboratories, industries and for teaching

**Features**

- Thanks to its compact, robust design, its bright display and high precision, this range is ideal for use in laboratories, quality control, production as well in schools and universities for teaching biology, chemistry and physics, for example
- **Large, shock proof weighing plate made of stainless steel**, can be removed and therefore is hygienic and easy to clean
- **1 Particularly flat design**
- **Ergonomically optimised key pad**
- **Simple and convenient 5-key operation**
- Large high-contrast display that is easy to read
- **2 Secure and non-slip positioning** with rubber feet
- **Level indicator and levelling feet** for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- **Adjusting program CAL** for quick setting of the balance accuracy, external test weights at an additional price, see *Test weights*

**Technical data**

- Backlit LCD display, digit height 22 mm
- Dimensions weighing surface, stainless steel
  - A** Ø 105 mm
  - B** B×H 120×120 mm, see larger picture
- Overall dimensions W×D×H 160×225×50 mm (without draught shield)
- Optional battery operation, 2×1.5 V AA, not included in scope of delivery, operating time up to 400 h
- External mains adapter standard
- Net weight approx. 0,5 kg
- Permissible ambient temperature 5 °C/40 °C

STANDARD

CAL EXT PCS UNIT BATT MULTI DMS 1 DAY

OPTION

DAKKS +3 DAYS

Model	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option	
							DAKKS KERN	DAKKS Calibr. Certificate €
EHA 500-2	500	0,01	0,03	± 0,02	A	90,-	963-127	72,-
EHA 500-1	500	0,1	0,3	± 0,2	A	65,-	963-127	72,-
EHA 1000-1	1000	0,1	0,3	± 0,2	A	65,-	963-127	72,-
EHA 3000-1	3000	0,1	0,3	± 0,3	B	90,-	963-127	72,-
EHA 3000-0	3000	1	3	± 2	B	65,-	963-127	72,-



## High-resolution precision balance with removable display for maximum flexibility

### Features

- Laboratory balance with separate platform: Ideal when working in the glove bag or fume cupboard. Particularly practical for weighing toxic, volatile or contaminated substances
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **Freely programmable weighing unit**, e.g. display direct in special units such as length of thread g/m, paper weight g/m<sup>2</sup>, or similar
- **Level indicator and levelling feet** for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- **1 Draught shield** standard for models with weighing plate size **A**, weighing space W×D×H 146×146×80 mm
- **Protective working cover** included with delivery

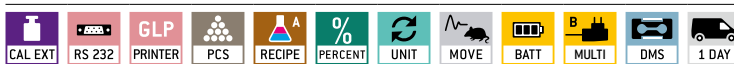
### Technical data

- Large backlit LCD display, digit height 21 mm
- Dimensions weighing surface
  - A** Ø 105 mm
  - B** W×D 160×160 mm, see larger picture
- Weighing plate material
  - A** plastic, with conductive lacquer
  - B** stainless steel
- Dimensions of display device W×D×H 140×46×75 mm
- Optional battery operation, 9 V-Block not included in scope of delivery, operating time up to 12 h, AUTO-OFF function to preserve the battery
- Overall dimensions W×D×H 165×280×75 mm
- Cable length of display device approx. 1,2 m
- Net weight approx. 1,2 kg
- Permissible ambient temperature 5 °C/35 °C

### Accessories

- **Protective working cover** over the display device, scope of delivery: 5 items, KERN PCD-A05S05, **€ 40,-**
- **2 Stand** to elevate display device, height of stand approx. 250 mm, KERN PCD-A03, **€ 50,-**
- **Rechargeable battery pack internal**, operating time up to 24 h without backlight, charging time approx. 10 h, KERN PCD-A04, **€ 50,-**
- **3 Foot switch**, ideal when the application requires two free hands. TARE or PRINT function can be selected. Scope of delivery: foot switch, junction box, connection cable. For the PRINT function you will need the RS-232 interface cable, KERN YKF-01, **€ 85,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- **Individual header data:** the free software can be used to print 4 header lines on the printout when using printers 911-013, YKN-01, YKB-01N, YKE-01 and YKC-01 (in combination with YKI-02)
- Further details, plenty of further accessories and suitable printers see *Accessories*

#### STANDARD



#### OPTION



Model	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Quality code	Price excl. of VAT ex works €	Option	
								DAKKS KERN	DAKKS Calibr. Certificate €
KERN PCD 250-3	250	0,001	0,002	± 0,005	A	AA	305,-	963-127	72,-
KERN PCD 300-3	350	0,001	0,002	± 0,005	A	AA	350,-	963-127	72,-
KERN PCD 2500-2	2500	0,01	0,02	± 0,05	B	BA	295,-	963-127	72,-
KERN PCD 3000-2	3500	0,01	0,02	± 0,05	B	BA	350,-	963-127	72,-
KERN PCD 6K-4	6000	0,1	0,1	± 0,3	B	BA	260,-	963-128	88,-
KERN PCD 10K0.1	10000	0,1	0,1	± 0,3	B	BA	240,-	963-128	88,-
KERN PCD 10K-3	10000	1	1	± 3	B	BA	190,-	963-128	88,-



## The standard in the laboratory

### Features

- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **Freely programmable weighing unit**, e.g. display direct in special units such as length of thread g/m, paper weight g/m<sup>2</sup>, or similar
- With the **recipe function** you can weigh the different ingredients of a mixture. As a check, you can also call up the total weight of all the ingredients
- **Plus/minus weighing procedures**
- **Ring-shaped draught shield** standard, only for models with weighing plate size **A**, weighing space  $\varnothing \times H$  90×40 mm
- **Protective working cover** included with delivery

### Technical data

- Backlit LCD display, digit height 15 mm
- Dimensions weighing surface
  - A**  $\varnothing$  81 mm
  - B**  $\varnothing$  105 mm
  - C** W×D 130×130 mm
  - D** W×D 150×170 mm, see larger picture
- Weighing plate material
  - A** plastic, with conductive lacquer
  - B, C, D** stainless steel
- Overall dimensions W×D×H 163×245×79 mm (without draught shield)
- Optional battery operation, 9 V-Block not included in scope of delivery, operating time up to 20 h, AUTO-OFF function to preserve the battery
- Permissible ambient temperature 5 °C/35 °C

### Accessories

- **Protective working cover**, scope of delivery: 5 items, for models with weighing plate size
  - A** KERN PCB-A02S05, € 40,-
  - B** KERN PCB-A03S05, € 40,-
  - C** KERN PCB-A04S05, € 40,-
  - D** KERN PCB-A05S05, € 40,-
- **Rechargeable battery pack internal**, operating time up to 48 h without backlight, charging time approx. 8 h, KERN PCB-A01, € 75,-
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, € 290,-
- **Balance Connection Software**, KERN SCD-4.0, € 150,-
- **Individual header data**: the free software SHM-01 can be used to print 4 header lines on the printout when using printers 911-013, YKN-01, YKB-01N, YKE-01 and YKC-01 (in combination with YKI-02)
- Further details, plenty of further accessories and suitable printers see *Accessories*

#### STANDARD



#### OPTION



Model	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Quality code	Price excl. of VAT ex works €	Option	
								DAKKS KERN	€
KERN PCB 100-3	100	0,001	0,001	± 0,003	<b>A</b>	AA	265,-	963-127	72,-
PCB 250-3	250	0,001	0,001	± 0,005	<b>A</b>	AA	290,-	963-127	72,-
PCB 350-3	350	0,001	0,002	± 0,005	<b>A</b>	AA	300,-	963-127	72,-
PCB 200-2	200	0,01	0,01	± 0,02	<b>B</b>	AA	230,-	963-127	72,-
PCB 1000-2	1000	0,01	0,01	± 0,03	<b>C</b>	AA	255,-	963-127	72,-
PCB 2500-2	2500	0,01	0,01	± 0,05	<b>C</b>	BA	290,-	963-127	72,-
PCB 3500-2	3500	0,01	0,02	± 0,05	<b>C</b>	AA	300,-	963-127	72,-
PCB 1000-1	1000	0,1	0,1	± 0,2	<b>C</b>	AA	185,-	963-127	72,-
PCB 2000-1	2000	0,1	0,1	± 0,2	<b>C</b>	AA	215,-	963-127	72,-
PCB 6000-1	6000	0,1	0,1	± 0,3	<b>D</b>	BA	240,-	963-128	88,-
PCB 10000-1	10000	0,1	0,1	± 0,3	<b>D</b>	BA	245,-	963-128	88,-
PCB 6000-0	6000	1	1	± 2	<b>D</b>	BA	130,-	963-128	88,-





## The classic balance in the laboratory

### Features

- **Compact size**, practical for small spaces
- **Percentage determination**: makes it possible to store a given weight value (100 %) and to determine deviations from this target value
- **Ring-shaped draught shield** standard, only for models with weighing plate size **A**, weighing space  $\varnothing \times H$  90×40 mm
- **Protective working cover** included with delivery

### Technical data

- Backlit LCD display, digit height 15 mm
- Dimensions weighing surface
  - A**  $\varnothing$  81 mm
  - B**  $\varnothing$  105 mm
  - C** W×D 130×130 mm
  - D** W×D 150×170 mm, see larger picture
- Weighing plate material
  - A** plastic, with conductive lacquer
  - B, C, D** stainless steel
- Overall dimensions (without draught shield) W×D×H 165×230×80 mm
- Optional battery operation, 9 V-Block not included in scope of delivery, operating time up to 20 h, AUTO-OFF function to preserve the battery
- Net weight approx. 0,95 kg
- Permissible ambient temperature 5 °C/35 °C

### Accessories

- **Protective working cover**, scope of delivery: 5 items, for models with weighing plate size
  - A** KERN 440-210-002S05, € 40,-
  - B** KERN 440-330-002S05, € 40,-
  - C** KERN 440-450-002S05, € 40,-
  - D** KERN 440-530-002S05, € 40,-
- **Internal rechargeable battery pack**, operating time up to 20 h without backlight, charging time approx. 10 h, KERN FCB-A01, € 50,-
- **Hook for underfloor weighing**, KERN 440-A01, € 25,-
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, € 290,-
- **Individual header data**: the free software SHM-01 can be used to print 4 header lines on the printout when using printers 911-013, YKN-01, YKB-01N, YKE-01 and YKC-01 (in combination with YKI-02)
- Further details, plenty of further accessories and suitable printers see *Accessories*

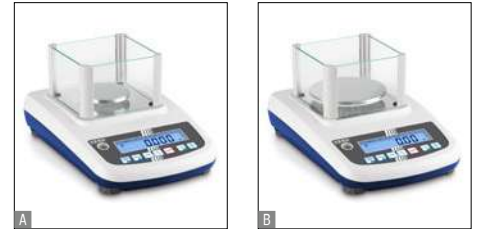
#### STANDARD



#### OPTION



Model	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option	
							DAkKS KERN	Calibr. Certificate €
440-21A	60	0,001	0,001	± 0,003	A	350,-	963-127	72,-
440-33N	200	0,01	0,01	± 0,02	B	290,-	963-127	72,-
440-35N	400	0,01	0,01	± 0,03	B	330,-	963-127	72,-
440-35A	600	0,01	0,01	± 0,03	B	365,-	963-127	72,-
440-43N	400	0,1	0,1	± 0,2	C	185,-	963-127	72,-
440-45N	1000	0,1	0,1	± 0,2	C	245,-	963-127	72,-
440-47N	2000	0,1	0,1	± 0,2	C	270,-	963-127	72,-
440-49N	4000	0,1	0,1	± 0,3	D	330,-	963-127	72,-
440-49A	6000	0,1	0,1	± 0,3	D	365,-	963-128	88,-
440-51N	4000	1	1	± 2	D	160,-	963-127	72,-
440-53N	6000	1	1	± 2	D	180,-	963-128	88,-



## Quick-display precision balance with user-friendly concept of operation modes – now with larger housing for more stability

### Features

- **Easy to use:** All primary functions have their own key on the keypad
- **Compact size,** practical for small spaces
- **Capacity display:** A rising bar graph display shows the remaining available weighing capacity
- **Level indicator and levelling feet** for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- **Draught shield** standard for models with weighing plate size **A** and **B**, Weighing space W×D×H 158×143×64 mm

### Technical data

- Backlit LCD display, digit height 15 mm
- Dimensions weighing surface, stainless steel
  - A** ø 80 mm
  - B** ø 120 mm
  - C** W×D 155×145 mm, see larger picture
- Overall dimensions W×D×H 210×315×90 mm (without draught shield)
- Net weight approx. 2,0 kg
- Permissible ambient temperature 15 °C/30 °C

### Accessories

- **Protective working cover,** scope of delivery: 5 items, KERN PFB-A12S05, **€ 40,-**
- **Separate second display,** ideal for training and demonstration purposes in laboratories or industry, not permitted for direct sales to the public, KERN PFB-A08, **€ 115,-**
- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase
  - Bluetooth 2.0: KERN PFB-A10, **€ 95,-**
  - Bluetooth 4.0: KERN PFB-A11, **€ 125,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

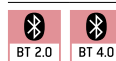
#### STANDARD



#### OPTION



#### FACTORY



Model	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option	
							DAkKS KERN	DAkKS Calibr. Certificate €
PFB 120-3	120	0,001	0,001	± 0,003	A	280,-	963-127	72,-
PFB 200-3	200	0,001	0,002	± 0,005	A	285,-	963-127	72,-
PFB 300-3	300	0,001	0,002	± 0,005	A	320,-	963-127	72,-
PFB 600-2	600	0,01	0,01	± 0,03	B	245,-	963-127	72,-
PFB 1200-2	1200	0,01	0,01	± 0,03	B	245,-	963-127	72,-
PFB 2000-2	2000	0,01	0,02	± 0,05	B	260,-	963-127	72,-
PFB 3000-2	3000	0,01	0,02	± 0,05	B	285,-	963-127	72,-
PFB 6000-2	6000	0,05	0,05	± 0,15	C	250,-	963-128	88,-
PFB 6000-1	6000	0,1	0,1	± 0,3	C	225,-	963-128	88,-

Price reduction



## Compact precision balance with large weighing capacity

### Features

- Thanks to the **many typical laboratory functions**, such as, for example, recipe function, percentage determination, GLP record keeping, combined with the high level of precision, the KERN KB-N is a reliable partner for day-to-day work in the laboratory
- **User guidance step by step** on display by Yes/No dialogue
- **Freely programmable weighing unit**, e.g. display direct in special units such as length of thread g/m, paper weight g/m<sup>2</sup>, or similar
- **Ring-shaped draught shield** standard, only for models with weighing plate size **A**, weighing space  $\varnothing \times H$  90×40 mm
- Model with resolution  $\geq 240,000$  Pt.: **Level indicator to level the balance precisely**
- **Protective working cover** included with delivery

### Technical data

- Backlit LCD display, digit height 9 mm
- Dimensions weighing surface
  - A**  $\varnothing$  81 mm, plastic, with conductive lacquer
  - B** W×D 130×130 mm, stainless steel
  - C** W×D 150×170 mm, stainless steel, see larger picture
- Overall dimensions W×D×H 167×250×85 mm (without draught shield)
- Net weight approx. 1,00 kg
- Permissible ambient temperature 10 °C/40 °C

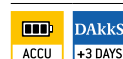
### Accessories

- **Protective working cover**, scope of delivery: 5 items, for models with weighing plate size
  - A** KERN PCB-A02S05, € 40,-
  - B** KERN PCB-A04S05, € 40,-
  - C** KERN PCB-A05S05, € 40,-
- **Rechargeable battery pack internal**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KB-A01N, € 50,-
- **1 Rechargeable battery pack external**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01, € 160,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

#### STANDARD



#### OPTION



Model	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Quality code	Price excl. of VAT ex works €	Option	
								DAkKS Calibr. Certificate	€
<b>KERN</b>						<b>QUALITY</b>		<b>DAkKS</b>	
<b>KB 120-3N</b>	120	0,001	0,001	± 0,003	<b>A</b>	AA	<b>270,-</b>	963-127	72,-
<b>KB 240-3N</b>	240	0,001	0,001	± 0,003	<b>A</b>	AA	<b>280,-</b>	963-127	72,-
<b>KB 360-3N</b>	360	0,001	0,002	± 0,005	<b>A</b>	AA	<b>290,-</b>	963-127	72,-
<b>KB 650-2N</b>	650	0,01	0,01	± 0,03	<b>B</b>	BA	<b>250,-</b>	963-127	72,-
<b>KB 1200-2N</b>	1200	0,01	0,01	± 0,03	<b>B</b>	BA	<b>260,-</b>	963-127	72,-
<b>KB 2000-2N</b>	2000	0,01	0,01	± 0,03	<b>B</b>	BA	<b>260,-</b>	963-127	72,-
<b>KB 2400-2N</b>	2400	0,01	0,01	± 0,03	<b>B</b>	BA	<b>270,-</b>	963-127	72,-
<b>KB 3600-2N</b>	3600	0,01	0,02	± 0,05	<b>B</b>	BA	<b>290,-</b>	963-127	72,-
<b>KB 10K0.05N</b>	10000	0,05	0,05	± 0,15	<b>C</b>	BA	<b>260,-</b>	963-128	88,-
<b>KB 6500-1N</b>	6500	0,1	0,1	± 0,3	<b>C</b>	BA	<b>240,-</b>	963-128	88,-
<b>KB 10000-1N</b>	10000	0,1	0,1	± 0,3	<b>C</b>	BA	<b>250,-</b>	963-128	88,-



## High-quality precision balance with automatic internal adjustment, also with EC type approval [M]

### Features

- **Easy to use:** All primary functions have their own key on the keypad
- **Automatic internal adjustment,** time-controlled every 2 h, guarantees high degree of accuracy and makes the balance independent of its location
- **Capacity display:** A bar lights up to show how much of the weighing capacity is still available
- KERN EWJ/EWJ-H/EWJ-M: **USB interface** for transferring weighing data to the PC, printer etc., possibly in conjunction with KERN DBS-A02. Can only be used in combination with KERN DBS-A02 accessories
- KERN EWJ-SM: cost-effective variant without data interfaces
- **Draught shield** standard on models KERN EWJ 300-3, EWJ 600-2SM, EWJ 600-2M, weighing space W×D×H 134×128×80 mm

- **1** KERN EWJ 300-3H: **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 175×155×217 mm
- **Protective working cover** included with delivery

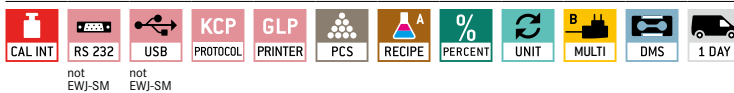
### Technical data

- Large backlit LCD display, digit height 16,5 mm
- Dimensions weighing surface
  - A** Ø 80 mm
  - B** Ø 120 mm, see larger picture
  - C** W×D 155×145 mm
- Overall dimensions W×D×H
  - 220×315×90 mm (without draught shield)
  - 220×340×321 mm (incl. draught shield)
- Permissible ambient temperature
  - KERN EWJ: 15 °C/35 °C
  - KERN EWJ-M: 15 °C/30 °C

### Accessories

- **Protective working cover,** scope of delivery: 5 items, KERN EWJ-A04S05, **€ 40,-**
- **Rechargeable battery pack internal,** operating time up to 15 h without backlight, charging time approx. 4 h, KERN KFB-A01, **€ 35,-**
- KERN EWJ/-H/-M: **USB Accessory Kit** for bi-directional data exchange between balance/moisture analyser and computer. Scope of delivery: USB cable, driver, Software BalanceConnection, KERN DBS-A02, **€ 290,-**
- **RS-232/WiFi adapter** for wireless connection to networks and WiFi capable devices, such as tablets, laptops or smartphones, KERN YKI-03, **€ 690,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

#### STANDARD



#### OPTION



#### FACTORY



Model	Weighing capacity [Max] g	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option			
								Verification		DAkkS Calibr. Certificate	
KERN								M KERN	€	DAkkS KERN	€
EWJ 300-3	300	0,001	-	-	± 0,005	A	450,-	-	-	963-127	72,-
EWJ 300-3H	300	0,001	-	-	± 0,005	A	490,-	-	-	963-127	72,-
EWJ 3000-2	3000	0,01	-	-	± 0,05	B	430,-	-	-	963-127	72,-
Note: For applications that require verification, please order verificati on at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
EWJ 600-2SM	600	0,01	0,1	0,5	± 0,03	B	350,-	965-216	66,-	963-127	72,-
EWJ 600-2M	600	0,01	0,1	0,5	± 0,03	B	360,-	965-216	66,-	963-127	72,-
EWJ 6000-1SM	6000	0,1	1	5	± 0,3	C	340,-	965-217	77,-	963-128	88,-
EWJ 6000-1M	6000	0,1	1	5	± 0,3	C	350,-	965-217	77,-	963-128	88,-



All-rounder e.g. as precision balance in the laboratory or in harsh industrial applications

**Features**

- Thanks to the **many typical laboratory functions**, such as, for example, recipe function, percentage determination, GLP record keeping, combined with the high level of precision, the KERN 572 · 573 is a reliable partner for day-to-day work in the laboratory
- **The robust version**, typical industrial functions, such as piece-counting, vibrationfree weighing and the large weighing capacities also make these balances ideal for all industrial applications, where a high level of precision is required
- **Freely programmable weighing unit**, e.g. display direct in special units such as length of thread g/m, paper weight g/m<sup>2</sup>, or similar

- **The robust aluminium diecast housing** maintains the stability, protects the weighing technology elements and is robust enough to cope with everyday use
- **Ring-shaped draught shield** standard, only for models with weighing plate size **A**, weighing space  $\varnothing \times H$  157×43 mm
- Model with resolution > 240,000 Pt.: **Level indicator and levelling feet for precise levelling of the scale, fitted as standard**
- **Loop for underfloor weighing**, standard for models with [d] = 0,001 g
- **Protective working cover** included with delivery

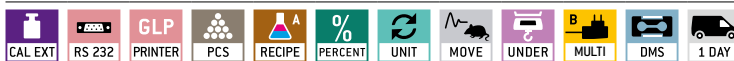
**Technical data**

- Large backlit LCD display, digit height 18 mm
- Dimensions weighing surface, stainless steel
  - A**  $\varnothing$  106 mm
  - B**  $\varnothing$  150 mm
  - C** W×D 160×200 mm, see larger picture
- Overall dimensions W×D×H 180×310×85 mm
- Permissible ambient temperature 10 °C/40 °C

**Accessories**

- **Protective working cover**, scope of delivery: 5 items, KERN 572-A02S05, **€ 40,-**
- **Rechargeable battery pack external**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 160,-**
- **Loop and hook for underfloor weighing**, for models with [d]  $\geq$  0,01 g, KERN 572-A03, **€ 25,-**
- **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 150×140×130 mm, for models with weighing plate size **A**, KERN 572-A05, **€ 230,-**

STANDARD



OPTION



Model	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Resolution Points	Weighing plate	Price excl. of VAT ex works €	Option	
								DAkkS KERN	€
<b>572-30</b>	240	0,001	0,001	± 0,003	240.000	<b>A</b>	<b>520,-</b> ↓	963-127	72,-
<b>572-31</b>	300	0,001	0,002	± 0,005	300.000	<b>A</b>	<b>530,-</b> ↓	963-127	72,-
<b>572-32</b>	420	0,001	0,002	± 0,005	420.000	<b>A</b>	<b>540,-</b> ↓	963-127	72,-
<b>573-34</b>	650	0,01	0,01	± 0,03	65.000	<b>B</b>	<b>530,-</b>	963-127	72,-
<b>572-33</b>	1600	0,01	0,01	± 0,03	160.000	<b>B</b>	<b>490,-</b> ↓	963-127	72,-
<b>572-35</b>	2400	0,01	0,01	± 0,03	240.000	<b>B</b>	<b>500,-</b> ↓	963-127	72,-
<b>572-37</b>	3000	0,01	0,02	± 0,05	300.000	<b>B</b>	<b>510,-</b> ↓	963-127	72,-
<b>572-39</b>	4200	0,01	0,02	± 0,05	420.000	<b>B</b>	<b>520,-</b> ↓	963-127	72,-
<b>572-45</b>	12000	0,05	0,05	± 0,15	240.000	<b>C</b>	<b>500,-</b> ↓	963-128	88,-
<b>572-55</b>	20000	0,05	0,1	± 0,25	400.000	<b>C</b>	<b>530,-</b> ↓	963-128	88,-
<b>573-46</b>	6500	0,1	0,1	± 0,3	65.000	<b>C</b>	<b>530,-</b>	963-128	88,-
<b>572-43</b>	10000	0,1	0,1	± 0,3	100.000	<b>C</b>	<b>490,-</b> ↓	963-128	88,-
<b>572-49</b>	16000	0,1	0,1	± 0,3	160.000	<b>C</b>	<b>500,-</b> ↓	963-128	88,-
<b>572-57</b>	24000	0,1	0,1	± 0,3	240.000	<b>C</b>	<b>500,-</b> ↓	963-128	88,-

↓ Price reduction



**Technical data**

- Backlit LCD display, digit height 17 mm
- Dimensions weighing surface, stainless steel
  - A ø 110 mm
  - B ø 160 mm, see larger picture
  - C WxD 200x175 mm
- Permissible ambient temperature  
 KERN PLS, PLJ: 5 °C/35 °C  
 KERN PLJ-M: 15 °C/30 °C

**Accessories**

- **Protective working cover**, scope of delivery: 5 items, KERN PLJ-A01S05, € 40,-
- **Hook for underfloor weighing**, KERN PLJ-A02, € 30,-
- **Set for density determination** of liquids and solids with density ≤/≥ 1 for models with [d] = 0,001 g, KERN ALT-A02, € 830,- [d] = 0,01 g, KERN PLT-A01, € 830,-
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, € 290,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

Range of precision balances with enormous weighing capacities – ideal for heavy tare containers or large samples

**Features**

- **1** KERN PLJ 2000-3A: **High-quality milligram balance with enormous weighing capacity up to 2100 g** – ideal for large samples or heavy tare containers
- **Ergonomically optimised keypad** for left and righthanded users
- KERN PLJ: **Automatic internal adjustment**, guarantees high degree of accuracy and makes the balance independent of its location of use

- Ideal for mobile applications which require verification, such as ambulatory gold and jewellery purchasing
- KERN PLS: **Adjusting program CAL** for quick setting of the balance accuracy, external test weights at an additional price, see *Test weights*
- **Draught shield** standard for models with weighing plate size **A**, weighing space øxH 60x150 mm
- **Protective working cover** included with delivery

STANDARD      OPTION      FACTORY

CAL INT	CAL EXT	RS 232	GLP	PCS	RECIPE	PERCENT	TOL	UNDER	MULTI	DMS	FORCE	1 DAY	DAkKS +3 DAYS	M +3 DAYS
PLJ	PLS									PLS/PLJ-F	PLS/PLJ-A			PLJ-M

Model	Weighing capacity [Max] g	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Quality code	Price excl. of VAT ex works €	Option			
									Verification		DAkKS Calibr. Certificate	
KERN							QUALITY	€	M KERN	€	DAkKS KERN	€
PLS 420-3F	420	0,001	-	-	± 0,004	A	BA	590,-	-	-	963-127	72,-
PLS 720-3A	720	0,001	-	-	± 0,002	A	BC	840,-	-	-	963-127	72,-
PLS 1200-3A	1200	0,001	-	-	± 0,003	A	BC	880,-	-	-	963-127	72,-
PLS 4200-2F	4200	0,01	-	-	± 0,04	B	BA	590,-	-	-	963-127	72,-
PLS 6200-2A	6200	0,01	-	-	± 0,03	B	BC	860,-	-	-	963-128	88,-
PLS 8000-2A	8200	0,01	-	-	± 0,04	B	BC	1040,-	-	-	963-128	88,-
PLS 20000-1F	20000	0,1	-	-	± 0,4	C	BA	570,-	-	-	963-128	88,-
PLJ 420-3F	420	0,001	-	-	± 0,003	A	BA	700,-	-	-	963-127	72,-
PLJ 720-3A	720	0,001	-	-	± 0,002	A	CC	980,-	-	-	963-127	72,-
PLJ 1200-3A	1200	0,001	-	-	± 0,003	A	CC	1000,-	-	-	963-127	72,-
PLJ 2000-3A	2100	0,001	-	-	± 0,004	A	CC	1650,-	-	-	963-127	72,-
PLJ 4200-2F	4200	0,01	-	-	± 0,04	B	BA	690,-	-	-	963-127	72,-
PLJ 6200-2A	6200	0,01	-	-	± 0,03	B	CC	980,-	-	-	963-128	88,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.  
 Verification at the factory, we need to know the full address of the location of use.

PLJ 720-3AM	720	0,001	0,01	0,02	± 0,002	A	CC	980,-	965-216	66,-	963-127	72,-
PLJ 6200-2AM	6200	0,01	0,1	0,5	± 0,03	B	CC	980,-	965-217	77,-	963-128	88,-

↓ Price reduction



## The new standard in the laboratory with robust tuning fork weighing system

### Features

- KERN PNJ: **Automatic internal adjustment**, guarantees high degree of accuracy and makes the balance independent of its location of use. Ideal for mobile applications which require verification, such as ambulatory gold and jewellery purchasing
- KERN PNS: **Adjusting program CAL** for quick setting of the balance accuracy using an external test weight
- **High-quality tuning fork measuring system** for steady weight values and continuous weighing
- **Capacity display:** A bar lights up to show how much of the weighing capacity is still available
- **Precise counting:** The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- **Compact size**, practical for small spaces
- **Large, shock proof weighing plate made of stainless steel**

- **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 172×171×160 mm, for models with weighing plate size **A**
- **Protective working cover** included with delivery

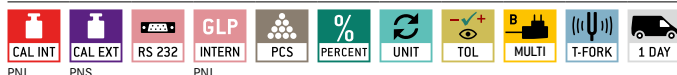
### Technical data

- Large LCD display, digit height 16,5 mm
- Dimensions weighing surface, stainless steel
  - A** Ø 140 mm
  - B** W×D 190×190 mm, see larger picture
- Overall dimensions W×D×H
  - A** 196×293×266 mm
  - B** 196×293×89 mm
- Net weight
  - A** approx. 2,2 kg
  - B** approx. 2,8 kg
- Permissible ambient temperature 5 °C/40 °C

### Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN PNJ-A01S05, **€ 40,-**
- **RS-232/Bluetooth adapter** to connect to Bluetooth capable devices, such as Bluetooth printers, tablets, laptops, smartphones, etc., KERN YKI-02, **€ 290,-**
- **RS-232/WiFi adapter** for wireless connection to networks and WiFi capable devices, such as tablets, laptops or smartphones, KERN YKI-03, **€ 690,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- **1 Precious stones plate**, aluminium with practical spout, W×D×H 83×66×23 mm, KERN AEJ-A05, **€ 40,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

#### STANDARD



#### OPTION



#### FACTORY



Model	Weighing capacity [Max] g	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option			
								Verification		DAkKS Calibr. Certificate	
KERN							€	€	DAkKS KERN	€	€
PNS 600-3	620	0,001	-	-	± 0,004	<b>A</b>	<b>620,-</b>	-	-	963-127	72,-
PNS 3000-2	3200	0,01	-	-	± 0,02	<b>B</b>	<b>580,-</b>	-	-	963-127	72,-
PNS 12000-1	12000	0,1	-	-	± 0,2	<b>B</b>	<b>570,-</b>	-	-	963-128	88,-
Note: For applications that require verification, please order verificati on at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
PNJ 600-3M	620	0,001	0,01	0,02	± 0,004	<b>A</b>	<b>740,-</b>	965-216	66,-	963-127	72,-
PNJ 3000-2M	3200	0,01	0,1	0,5	± 0,02	<b>B</b>	<b>705,-</b>	965-216	66,-	963-127	72,-
PNJ 12000-1M	12000	0,1	1	5	± 0,2	<b>B</b>	<b>705,-</b>	965-217	77,-	963-128	88,-



## The classic balance with robust tuning fork measuring system

### Features

- **1** KERN EG-N: **Internal adjustment** by rotary knob on the side. Guarantees high degree of accuracy and makes the balance independent of its location
- KERN EW-N: **Adjusting program CAL** for quick setting of the balance accuracy using an external test weight
- **Stable temperature behaviour**
- **Short stabilisation time**
- **Shock proof construction**
- **High corner load performance**
- **GLP/ISO record keeping** of weight values
- **Totalising** of pieces when counting
- **Draught shield** standard for models with weighing plate size **A**, weighing space W×D×H 158×130×78 mm
- **Protective working cover** included with delivery

### Technical data

- Large LCD display, digit height 17 mm
- Dimensions weighing surface, stainless steel
  - A** Ø 118 mm, see larger picture
  - B** W×D 170×140 mm
  - C** W×D 180×160 mm
- Overall dimensions W×D×H, without draught shield
  - A, B** 182×235×75 mm
  - C** 192×275×87 mm
- Net weight approx. 1,4 kg
- Permissible ambient temperature 10 °C/30 °C

### Accessories

- **Protective working cover**, scope of delivery: 5 items, for models with weighing plate size
  - A, B** KERN EG-A05S05, € 40,-
  - C** KERN EG-A09S05, € 40,-
- **Rechargeable battery pack internal**, operating time up to 32 h without backlight, charging time approx. 12 h, for models with weighing plate size
  - A, B** KERN EG-A04, € 110,-
  - C** KERN EG-A06, € 110,-
 Note: If the rechargeable battery pack is retrofitted to a verified balance, it must be recalibrated
- **2 Large glass draught shield** with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 150×140×130 mm, for models with weighing plate size **A**, KERN EG-A03, € 250,-
- **Loop for underfloor weighing**, for models with weighing plate size
  - A, B** KERN EG-A07, € 40,-
  - C** KERN EG-A08, € 40,-
- **Precious stones plate**, aluminium with practical spout, W×D×H 83×66×23 mm, KERN AEJ-A05, € 40,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

CAL INT	CAL EXT	RS 232	GLP	PRINTER	PCS	PERCENT	UNIT	TOL	UNDER	230 V	T-FORK	1 DAY
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EG-N EW-N

OPTION

ACCU	MULTI	DAkKS	+3 DAYS
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FACTORY

M	+3 DAYS
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EG-N

Model	Weighing capacity [Max] g	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Quality code	Price excl. of VAT ex works €	Option			
									Verification		DAkKS Calibr. Certificate	
									KERN	€	DAkKS KERN	€
KERN EW 220-3NM	220	0,001	-	-	± 0,002	<b>A</b>	AB	620,-	-	-	963-127	72,-
KERN EW 420-3NM	420	0,001	-	-	± 0,003	<b>A</b>	AB	690,-	-	-	963-127	72,-
KERN EW 620-3NM	620	0,001	-	-	± 0,003	<b>A</b>	AB	770,-	-	-	963-127	72,-
KERN EW 820-2NM	820	0,01	-	-	± 0,01	<b>B</b>	BB	540,-	-	-	963-127	72,-
KERN EW 2200-2NM	2200	0,01	-	-	± 0,01	<b>C</b>	BB	660,-	-	-	963-127	72,-
KERN EW 4200-2NM	4200	0,01	-	-	± 0,02	<b>C</b>	BB	760,-	-	-	963-127	72,-
KERN EW 6200-2NM	6200	0,01	-	-	± 0,03	<b>C</b>	BB	810,-	-	-	963-128	88,-
KERN EW 12000-1NM	12000	0,1	-	-	± 0,2	<b>C</b>	BB	630,-	-	-	963-128	88,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.												
EG 220-3NM	220	0,001	0,01	0,02	± 0,002	<b>A</b>	BB	760,-	965-216	66,-	963-127	72,-
EG 420-3NM	420	0,001	0,01	0,02	± 0,003	<b>A</b>	BB	830,-	965-216	66,-	963-127	72,-
EG 620-3NM	620	0,001	0,01	0,1	± 0,004	<b>A</b>	BB	930,-	965-201	110,-	963-127	72,-
EG 2200-2NM	2200	0,01	0,1	0,5	± 0,01	<b>C</b>	BB	800,-	965-216	66,-	963-127	72,-
EG 4200-2NM	4200	0,01	0,1	0,5	± 0,02	<b>C</b>	BB	880,-	965-216	66,-	963-127	72,-

Price reduction





## Multifunctional laboratory balance with single-cell weighing system and EC type approval [M]

### Features

- KERN PBJ: **Internal adjustment** in the case of a change in temperature and time-controlled at defined intervals, guarantees high degree of accuracy and makes the balance independent of its location of use
- KERN PBS: **Adjusting program CAL** for quick setting of the balance accuracy using an external test weight
- **Metal housing:** robust and sturdy
- **Dosage aid:** High-stability mode and other filter settings can be selected
- **Weighing with tolerance range (check-weighing):** a visual signal helps with portioning, dispensing or grading
- **Totalising** of weights
- **Identification number:** 4 digits, printed on calibration protocol freely programmable
- **Automatic data output to the PC/printer** each time the balance is steady

- **1 Draught shield** standard for models with [d] = 0,001 g, weighing space W×D×H 180×193×87 mm
- **Protective working cover** included with delivery

### Technical data

- Large backlit LCD display, digit height 14 mm
- Dimensions weighing surface, stainless steel
  - A W×D 108×105 mm
  - B W×D 180×190 mm, see larger picture
- Overall dimensions W×D×H 209×322×78 mm (without draught shield)
- Net weight approx. 3,2 kg
- Permissible ambient temperature 10 °C/30 °C

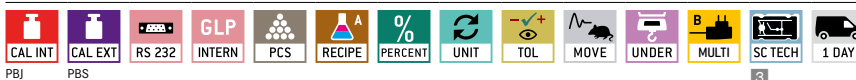
### Accessories

- **Protective working cover**, scope of delivery: 5 items, for models with weighing plate size
  - A KERN PBS-A01S05, € 40,-
  - B KERN PBS-A02S05, € 40,-
- **2 Set for density determination** of liquids and solids with density ≥ 1, for models with weighing plate size
  - A KERN PBS-A04, € 1600,-
  - B KERN PBS-A03, € 1650,-
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, € 290,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

### 3 Single-cell advanced technology:

- **Fully automatic manufactured weighing cell from one piece of material**
- **Stable temperature behaviour**
- **Short stabilisation time:** steady weight values within approx. 3 s under laboratory conditions
- **Shock proof construction**
- **High corner load performance**

### STANDARD



### OPTION



### FACTORY



Model	Weighing capacity [Max] g	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Quality code	Price excl. of VAT ex works €	Option			
									Verification		DAkkS Calibr. Certificate	
KERN							QUALITY		M KERN	€	DAkkS KERN	€
PBS 620-3M	620	0,001	-	-	± 0,002	A	BC	1370,-	-	-	963-127	72,-
PBS 4200-2M	4200	0,01	-	-	± 0,02	B	BC	1160,-	-	-	963-127	72,-
PBS 6200-2M	6200	0,01	-	-	± 0,02	B	BC	1390,-	-	-	963-128	88,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.												
PBJ 620-3M	620	0,001	0,01	0,1	± 0,002	A	BC	1610,-	965-201	110,-	963-127	72,-
PBJ 4200-2M	4200	0,01	0,1	0,5	± 0,02	B	CC	1430,-	965-216	66,-	963-127	72,-
PBJ 6200-2M	6200	0,01	0,1	1	± 0,02	B	CC	1730,-	965-202	110,-	963-128	88,-
PBJ 8200-1M	8200	0,1	1	5	± 0,2	B	CC	1420,-	965-217	77,-	963-128	88,-



02

## Robust laboratory and industrial precision scale for heavy items, with EC type approval [M]

### Features

- KERN PEJ: **Automatic internal adjustment**, guarantees high degree of accuracy and makes the balance independent of its location of use
- KERN PES: **Adjusting program CAL** for quick setting of the balance accuracy using an external test weight
- **Metal housing:** robust and sturdy
- **Weighing with tolerance range (check-weighing):** Input of two upper and two lower limit values through four arrow keys. An audible and visual signal assists with the portioning, dispensing or grading
- **1 Draught shield** standard for models with [d] = 0,001 g, weighing space W×D×H 170×150×100 mm
- **Underfloor weighing:** load support with loop on the underside of the balance, standard for models with [d] = 0,001 g, hook not included in scope of delivery

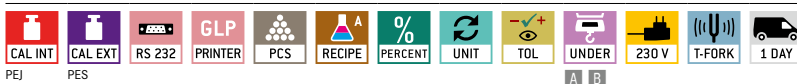
### Accessories

- **Protective working cover** included with delivery
  - **A, B: Protective working cover** included with delivery
- ### Technical data
- Fluorescent display, bright with high contrast, digit height 14 mm
  - Dimensions weighing surface, stainless steel
    - A** W×D 140×120 mm
    - B** W×D 200×200 mm, see larger picture
    - C** W×D 250×220 mm
  - Overall dimensions W×D×H, without draught shield
    - A** 220×330×90 mm
    - B** 220×339×80 mm
    - C** 260×330×113 mm
  - Net weight approx. **A** 4,0 kg, **B** 4,4 kg, **C** 10 kg
  - Permissible ambient temperature 10 °C/30 °C

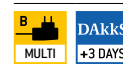
### Accessories

- **A, B: Protective working cover**, scope of delivery: 5 items, KERN PES-A04S05, **€ 40,-**
- KERN PES: **Rechargeable battery pack internal**, operating time up to 32 h, without backlight, charging time approx. 15 h, KERN PES-A01, **€ 610,-**
- **Loop for underfloor weighing**, for models with weighing plate size **B**, KERN PES-A03, **€ 40,-**
- **Relay output** to connect relays, signal lamps, valves etc., 5 outputs for weighing in 3 tolerance ranges, must be ordered at purchase, KERN PES-A02, **€ 480,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

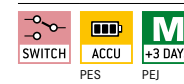
#### STANDARD



#### OPTION



#### FACTORY



Model	Weighing capacity [Max] g	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Quality code	Price excl. of VAT ex works €	Option			
									Verification		DAkkS Calibr. Certificate	
KERN								€	€	DAkkS KERN	€	€
PES 620-3M	620	0,001	-	-	± 0,003	A	BB	1220,-	-	-	963-127	72,-
PES 2200-2M	2200	0,01	-	-	± 0,02	B	BB	840,-	-	-	963-127	72,-
PES 4200-2M	4200	0,01	-	-	± 0,02	B	BB	1000,-	-	-	963-127	72,-
PES 6200-2M	6200	0,01	-	-	± 0,03	B	BB	1240,-	-	-	963-128	88,-
PES 15000-1M	15000	0,1	-	-	± 0,2	B	BB	1190,-	-	-	963-128	88,-
PES 31000-1M	31000	0,1	-	-	± 0,4	C	CB	2050,-	-	-	963-128	88,-
Note: For applications that require verification, please order verification on at the same time, initial verification at a later date is not possible.												
Verification at the factory, we need to know the full address of the location of use.												
PEJ 620-3M	620	0,001	0,01	0,1	± 0,003	A	BB	1480,-	965-201	110,-	963-127	72,-
PEJ 2200-2M	2200	0,01	0,1	0,5	± 0,02	B	CB	1060,-	965-216	66,-	963-127	72,-
PEJ 4200-2M	4200	0,01	0,1	0,5	± 0,02	B	CB	1230,-	965-216	66,-	963-127	72,-

Price reduction

# TIPS FROM THE EXPERTS

As well as our balances and test services, we can offer you an extensive range of microscopes and refractometers.

We will offer you reliable quality at fair prices and with the shortest delivery times. Our product specialists will give you professional advice, will work with you to find the right product and will provide comprehensive support after the purchase too.

This ensures a high level of investment security and a good feeling – KERN, the nice balance manufacturer from the wilds of Southern Germany.

For all details on our ranges, please see [www.kern-sohn.com](http://www.kern-sohn.com) or request your own personal catalogues right now: Telephone +49 7433 9933-0



## #1 “No compromises with optical device”

KERN offers you a complete, carefully-designed range of biological microscopes, stereo microscopes, metallurgical microscopes, polarisation microscopes, especially flexible, preconfigured stereomicroscope sets, individually configurable stereomicroscope systems as well as microscope cameras and camera software

## #2 “High-precision refractive index measurement for laboratories and industry”

Quick and easy determination of measured values, whether on site, in production or in the laboratory, ensuring safety, consistent quality and accelerating processes. This is what KERN's analog and digital refractometers stand for and at an extremely attractive price in consistently high quality.

All microscopes, microscope cameras, refractometers and a variety of practical accessories can be found in the new KERN Catalog of Microscopes & Refractometers 2020.



KERN OBE-12 · 13



*Daniel Junger,  
Head of Product Management  
Optical devices*

## Analytical balances

Quick-Finder Analytical balances											
Readability [d] mg	Weighing capacity [Max] g		Model  KERN	Price excl. of VAT ex works €	Page	DAYS	M	CAL INT	CAL EXT	RS 232	RECIPE
						For an explanation on the pictos, see front flap					
0,01		101	ABT 100-5NM	1900,-	44	1	○	●		●	●
0,01   0,1	42   120	ABT 120-5DNM	2000,-	44	1	○	●			●	●
0,01   0,1	52   120	ABP 100-5DM	2660,-	42	1	○	●			●	●
0,01   0,1	82   220	ALJ 200-5DA	1690,-	38	1			●		●	●
0,01   0,1	82   220	ABT 220-5DNM	2060,-	44	1	○	●			●	●
0,01   0,1	102   220	ABP 200-5DM	2850,-	42	1	○	●			●	●
0,1	82	ABS 80-4N	920,-	40	1				●	○	●
0,1	82	ABJ 80-4NM	1030,-	40	1	○	●			○	●
0,1	82	ACS 80-4	1050,-	40	1				●	●	●
0,1	82	ACJ 80-4M	1160,-	40	1	○	●			●	●
0,1	120	ADB 600-C3	610,-	37	1					●	
0,1	120	ADB 100-4	620,-	37	1					●	
0,1	120	ADJ 100-4	750,-	37	1			●		●	
0,1	120	ADJ 600-C3	740,-	37	1			●		●	
0,1	120	ABS 120-4N	1000,-	40	1				●	○	●
0,1	120	ABJ 120-4NM	1050,-	40	1	○	●			○	●
0,1	120	ABT 120-4NM	1450,-	44	1	○	●			●	●
0,1	120	ABP 100-4M	1840,-	42	1	○	●			●	●
0,1	120	ACS 100-4	1130,-	40	1				●	●	●
0,1	120	ACJ 100-4M	1180,-	40	1	○	●			●	●
0,1	160	ALS 160-4A	960,-	38	1				●	●	●
0,1	160	ALJ 160-4A	1060,-	38	1			●		●	●
0,1	160	ALJ 160-4AM	1130,-	38	1	○	●			●	●
0,1	210	ADB 200-4	640,-	37	1				●	●	●
0,1	210	ADJ 200-4	790,-	37	1			●		●	
0,1	220	ABS 220-4N	1070,-	40	1				●	○	●
0,1	220	ABJ 220-4NM	1150,-	40	1	○	●			○	●
0,1	220	ABT 220-4NM	1760,-	44	1	○	●			●	●
0,1	220	ABP 200-4M	2220,-	42	1	○	●			●	●
0,1	220	ACS 200-4	1190,-	40	1				●	●	●
0,1	220	ACJ 200-4M	1280,-	40	1	○	●			●	●
0,1	250	ALS 250-4A	980,-	38	1				●	●	●
0,1	250	ALJ 250-4A	1060,-	38	1			●		●	●
0,1	250	ALJ 250-4AM	1130,-	38	1	○	●			●	●
0,1	310	ALJ 310-4A	1100,-	38	1			●		●	●
0,1	320	ABS 320-4N	1200,-	40	1				●	○	●
0,1	320	ABJ 320-4NM	1320,-	40	1	○	●			○	●
0,1	320	ABT 320-4NM	1960,-	44	1	○	●			●	●
0,1	320	ABP 300-4M	2470,-	42	1	○	●			●	●
0,1	320	ACS 300-4	1350,-	40	1				●	●	●
0,1	320	ACJ 300-4M	1470,-	40	1	○	●			●	●
0,1	510	ALJ 500-4A	1860,-	38	1			●		●	●

News 2020     
 = Carat balances     
 ● = standard     
 ○ = option



from €  
**740,-**



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Product specialist Analytical balances  
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aleksandar.delic@kern-sohn.com

- ▷ Internal adjustment control
- ▷ Large glass draught shield with 3 sliding doors
- ▷ Large weighing capacities at a top price
- ▷ Now also available with internal adjustment

# HIGHLIGHT



03

The price leader in analytical balances, now also with internal adjustment

**Features**

- **NEW KERN ADJ: Automatic internal adjustment** in the case of a change in temperature  $\geq 2\text{ }^{\circ}\text{C}$  or timecontrolled every 3 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- KERN ADB: **Adjusting program CAL** for quick setting of the balance accuracy using an external test weight
- **1** ADB/ADJ 600-C3: Compact, space-saving carat balance with a readout of 0.001 ct and a weighing capacity of 600 ct. The high level of accuracy saves hard cash wherever you are weighing valuable precious stones
- Level indicator and foot screws to level the balance precisely, fitted as standard, to give the most accurate weighing results
- **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed.
- **Compact size**, practical for small spaces
- **Simple and convenient 6-key operation**

**Technical data**

- Large backlit LCD display, digit height 16 mm
- Dimensions weighing surface, stainless steel,  $\varnothing$  90 mm
- Overall dimensions (incl. draught shield) W×D×H  
KERN ADB/ADJ: 230×310×330 mm  
KERN ADB-C/ADJ-C: 205×310×210 mm
- Weighing space W×D×H  
KERN ADB/ADJ: 170×160×205 mm  
KERN ADB-C/ADJ-C: 170×160×110 mm
- Permissible ambient temperature 10 °C/30 °C

**Accessories**

- **2 Ionizer** to neutralise electrostatic charge, KERN YBI-01A, **€ 890,-**
- **3 Precious stones plate**, aluminium with practical spout, W×D×H 83×66×23 mm, KERN AEJ-A05, **€ 40,-**
- **4 Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03, **€ 970,-**
- **Minimum weight of sample**, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, **€ 10,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

CAL INT CAL EXT RS 232 GLP PRINTER PCS PERCENT UNIT MULTI FORCE 1 DAY

OPTION

DAkkS +3 DAYS

Model	Weighing capacity [Max] g	Readability [d] mg	Reproducibility mg	Linearity mg	Net weight approx. kg	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate	
							DAkkS KERN	€
KERN ADB 100-4	120	0,1	0,2	± 0,4	4,4	620,-	963-101	138,-
KERN ADB 200-4	210	0,1	0,2	± 0,4	4,4	640,-	963-101	138,-
KERN ADB 600-C3	120 g   600 ct	0,1 mg   0,001 ct	0,2 mg   0,002 ct	± 0,4 mg   ± 0,004 ct	3,8	610,-	963-101	138,-
KERN ADJ 100-4	120	0,1	0,2	± 0,4	5	750,-	963-101	138,-
KERN ADJ 200-4	210	0,1	0,2	± 0,4	5	790,-	963-101	138,-
KERN ADJ 600-C3	120 g   600 ct	0,1 mg   0,001 ct	0,2 mg   0,002 ct	± 0,4 mg   ± 0,004 ct	4,5	740,-	963-101	138,-

**NEW** New model



1 KERN ALJ 200-5DA with optional ionisor 2, see Accessories

Analytical balance range with large weighing capacities – now also with EC type approval [M] or available as semi-micro analytical balance

#### Features

- 1 **ALJ 200-5DA**: High-precision semi-micro analytical balance. Thanks to its high level of precision, it is ideal for calibrating pipettes. Note: To prevent evaporation we recommend economical capillary tubes (see standard DIN EN ISO 8655)
- 2 **ALJ-A03**: Ionizer to neutralise electrostatic charge for fixed installation in the analytical balance. Particularly convenient handling as you no longer need a separate device. Simply enable the ionizer fan at the push of a button. Suitable for all models
- KERN ALJ-A/-AM: **Automatic internal adjustment** in the case of a change in temperature  $\geq 1,2$  °C or timecontrolled every 3 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- KERN ALS-A: **Adjusting program CAL** for quick setting of the balance accuracy using an external test weight
- **Ergonomically optimised keypad** for left and righthanded users
- **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed.
- **Compact size**, practical for small spaces
- **Protective working cover** included with delivery



**Technical data**

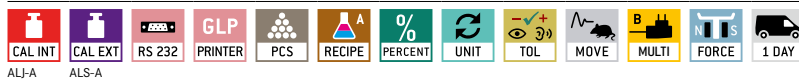
- Backlit LCD display, digit height 17 mm
- Dimensions weighing surface, stainless steel,  $\varnothing$  80 mm
- Overall dimensions (incl. draught shield) W×D×H 210×340×330 mm
- Weighing space W×D×H 160×140×205 mm
- Net weight 7 kg
- Permissible ambient temperature  
KERN ALS-A/ALJ-A/ALJ-DA: 5 °C/35 °C  
KERN ALJ-AM: 15 °C/30 °C

**Accessories**

- **Protective working cover**, scope of delivery: 5 items, KERN ALJ-A01S05, **€ 40,-**
- Protective dust cover, KERN ABS-A08, **€ 30,-**
- **2 Draft shield rear panel with integrated ionizer** to neutralise electrostatic charge. Is fitted in place of the existing glass rear panel of the draft shield. Suitable for all models in the range, please order at the time you order your balance, the scope of delivery is the rear panel, ionizer, power supply. Factory Option, KERN ALJ-A03, **€ 620,-**
- **3 Set for density determination** of liquids and solids with density  $\leq/\geq 1$ , the density is indicated directly on the display, KERN YDB-03, **€ 390,-**

- **4 Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03, **€ 970,-**
- **Minimum weight of sample**, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, **€ 10,-**
- **Equipment qualification:** compliant qualification concept which includes the following validation services: Installation Qualification (IQ), Operating Qualification (OQ), KERN 961-231B, **€ 750,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max] g	Readability [d] mg	Verification value [e] mg	Minimal load [Min] mg	Reproducibility mg	Linearity mg	Price excl. of VAT ex works €	Option			
								Verification		DAkkS Calibr. Certificate	
KERN								MD KERN	€	DAkkS KERN	€
ALS 160-4A	160	0,1	-	-	0,1	± 0,3	<b>960,-</b>	-	-	963-101	138,-
ALS 250-4A	250	0,1	-	-	0,1	± 0,3	<b>980,-</b>	-	-	963-101	138,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
ALJ 200-5DA	82   220	0,01   0,1	1	1	0,04   0,1	± 0,1   0,2	<b>1690,-</b>	-	-	963-101	138,-
ALJ 160-4A	160	0,1	-	-	0,1	± 0,3	<b>1060,-</b>	-	-	963-101	138,-
ALJ 160-4AM	160	0,1	1	10	0,2	± 0,3	<b>1130,-</b>	965-201	110,-	963-101	138,-
ALJ 250-4A	250	0,1	-	-	0,1	± 0,3	<b>1060,-</b>	-	-	963-101	138,-
ALJ 250-4AM	250	0,1	1	10	0,2	± 0,3	<b>1130,-</b>	965-201	110,-	963-101	138,-
ALJ 310-4A	310	0,1	-	-	0,1	± 0,3	<b>1100,-</b>	-	-	963-101	138,-
ALJ 500-4A	510	0,1	-	-	0,2	± 0,4	<b>1860,-</b>	-	-	963-101	138,-



**KERN ACS/ACJ** with standard data interface RS-232 and USB

The bestseller in analytical balances, with high-quality single-cell weighing system, also with EC type approval [M]

#### Features

- **ABJ-NM: Automatic internal adjustment** in the case of a change in temperature  $\geq 2$  °C or timecontrolled every 4 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- **ABS-N: Adjusting program CAL** for quick setting of the balance accuracy using an external test weight
- **ACS** identical to ABS-N, **ACJ** identical to KERN ABJ-NM, but with RS-232 and USB data interface integrated as standard
- **Dosage aid:** High-stability mode and other filter settings can be selected
- **Simple recipe weighing and documenting** with a combined tare/print function. In addition, the ingredients for the recipe are numbered automatically and printed out with their corresponding number and nominal weight
- **Automatic data output to the PC/printer** each time the balance is steady
- **Identification number:** 4 digits, printed on calibration protocol freely programmable
- ABJ-NM, ACJ have OIML certification
- **Protective working cover** included with delivery





**Technical data**

- Large LCD display, digit height 14 mm
- Dimensions weighing surface, stainless steel,  $\varnothing$  91 mm
- Overall dimensions (incl. draught shield) WxDxH 210x340x325 mm
- Weighing space WxDxH 174x162x227 mm
- Net weight approx. 6 kg
- Permissible ambient temperature 10 °C/30 °C

**Accessories**

- **Protective working cover**, scope of delivery: 5 items, KERN ACS-A02S05, € 40,-
- **1 Set for density determination** of liquids and solids with density  $\leq/\geq 1$ , the density is indicated directly on the display, KERN YDB-03, € 390,-
- **2 Ionizer** to neutralise electrostatic charge, KERN YBI-01A, € 890,-
- **KERN ABS-N/ABJ-NM: Data interface RS-232**, interface cable included, approx. 1,5 m KERN ACS-A01, € 90,-
- **3 Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03, € 970,-
- **Minimum weight of sample**, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, € 10,-
- Further details, plenty of further accessories and suitable printers see *Accessories*



Single-cell advanced technology:

- **Fully automatic manufactured weighing cell from one piece of material**
- **Stable temperature behaviour**
- **Short stabilisation time:** steady weight values within approx. 3 s under laboratory conditions
- **Shock proof construction**
- **High corner load performance**

STANDARD

CAL INT  
 CAL EXT  
 RS 232  
 USB  
 PRINTER  
 PCS  
 RECIPE  
 PERCENT  
 UNIT  
 TOL  
 MULTI  
 SC TECH  
 1 DAY

OPTION

RS 232  
 DAkkS  
 +3 DAYS

FACTORY

+3 DAYS

Model	Weighing capacity [Max]	Readability	Verification value	Minimal load	Reproducibility	Linearity	Price excl. of VAT ex works €	Option				
								Verification		DAkkS Calibr. Certificate		
								MI	€	DAkkS KERN	€	
<b>KERN</b>	g	[d] mg	[e] mg	[Min] mg	mg	mg	€	€	€	€	€	€
<b>ABS 80-4N</b>	82	0,1	-	-	0,2	± 0,3	<b>920,-</b>	-	-	963-101	138,-	-
<b>ABS 120-4N</b>	120	0,1	-	-	0,2	± 0,3	<b>1000,-</b>	-	-	963-101	138,-	-
<b>ABS 220-4N</b>	220	0,1	-	-	0,2	± 0,3	<b>1070,-</b>	-	-	963-101	138,-	-
<b>ABS 320-4N</b>	320	0,1	-	-	0,2	± 0,3	<b>1200,-</b>	-	-	963-101	138,-	-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.												
<b>ABJ 80-4NM</b>	82	0,1	1	10	0,2	± 0,3	<b>1030,-</b>	965-201	110,-	963-101	138,-	-
<b>ABJ 120-4NM</b>	120	0,1	1	10	0,2	± 0,3	<b>1050,-</b>	965-201	110,-	963-101	138,-	-
<b>ABJ 220-4NM</b>	220	0,1	1	10	0,2	± 0,3	<b>1150,-</b>	965-201	110,-	963-101	138,-	-
<b>ABJ 320-4NM</b>	320	0,1	1	10	0,2	± 0,3	<b>1320,-</b>	965-201	110,-	963-101	138,-	-
<b>ACS 80-4</b>		82	0,1	-	-	0,2	+/- 0,3	<b>1050,-</b>	-	-	963-101	138,-
<b>ACS 100-4</b>		120	0,1	-	-	0,2	+/- 0,3	<b>1130,-</b>	-	-	963-101	138,-
<b>ACS 200-4</b>		220	0,1	-	-	0,2	+/- 0,3	<b>1190,-</b>	-	-	963-101	138,-
<b>ACS 300-4</b>		320	0,1	-	-	0,2	+/- 0,3	<b>1350,-</b>	-	-	963-101	138,-
<b>ACJ 80-4M</b>		82	0,1	1	10	0,2	+/- 0,3	<b>1160,-</b>	965-201	110,-	963-101	138,-
<b>ACJ 100-4M</b>		120	0,1	1	10	0,2	+/- 0,3	<b>1180,-</b>	965-201	110,-	963-101	138,-
<b>ACJ 200-4M</b>		220	0,1	1	10	0,2	+/- 0,3	<b>1280,-</b>	965-201	110,-	963-101	138,-
<b>ACJ 300-4M</b>		320	0,1	1	10	0,2	+/- 0,3	<b>1470,-</b>	965-201	110,-	963-101	138,-

New model



03



**KERN ABP 100-5DM** with optional ionizer

**NEW:** Extremely fast ionization process, thanks to the latest generation of KERN ionization technology to neutralise electrostatic charge for fixed installation in the analytical balance. Particularly convenient handling as you no longer need a separate device. Simply enable the ionizer fan at the push of a button. Suitable for all models

Premium analytical balance with the latest Single-Cell Generation for extremely rapid, stable weighing results



**Bright OLED display** with large viewing angle for the very best readout from a wide range of lines of sight or poor lighting conditions



**USB data interfaces and RS-232** for transferring weighing data to the PC, tablet, printer, USB as well as connecting external devices, such as barcode scanner (option), numeric keypad (option) etc.



**GLP/ISO record keeping** professional and detailed GLP protocol, so that the scale is fully compliant with the relevant standard requirements according to ISO, GLP and GMP



**Features**

- This new generation of analytical balances combines the highest level of precision with large weighing capacities. Thanks to the new Single-Cell Generation, the weighing result is displayed in a fraction of the time with comparable models. Together with the intuitively structured menu, this means that you can work efficiently and rapidly
- **Navigation pad** for super quick navigating through the menus
- **Automatic internal adjustment** in the case of a change in temperature  $\geq 1\text{ }^{\circ}\text{C}$  or timecontrolled every 4 h, guarantees high degree of accuracy and makes the balance independent of its location of use. For applications which do not require verification the time interval can be individually adjusted
- The **Minimum weight of sample** can be manually stored in the device or automatically calculated. For weighings below this value, the balance issues a warning message
- **Dosage aid:** High-stability mode and other filter settings can be selected
- **Simple recipe weighing and documenting** with a combined tare/print function. In addition, the ingredients for the recipe are numbered automatically and printed out with their corresponding number and nominal weight
- **Individual user settings for up to 10 users can be saved:** user name/user number (can be printed out or added to the record for each process), password, menu language, user profiles, accessing user settings via barcode, additional guest mode for users who are not logged in, authorizations, eg. B. balance adjustment, changing settings or conditioning or modification of a recipe only by the authorized person & performing the formulation by the user

- **U.S. FDA 21 Part 11:** assists you in data integrity in accordance with U.S. Pat. FDA 21 Part 11 (for example (weighing result, sample ID, user name, scales ID, ...))
- Menu language DE, GB
- **Automatic data output to the PC/printer** each time the balance is steady
- **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed.
- **KERN ABP-DM: Multi-function weighing plate** included with delivery, minimises the effect of currents of air in the weighing space and therefore significantly improves the stabilization time and repeatability. In addition samples, sample paper, PCR containers, micro centrifuge tubes and many other items which protrude can be easily fixed in place and weighed easily
- **Protective working cover included with delivery**

**Technical data**

- Luminescent OLED display, digit height 14 mm, bright with high contrast, for easy reading of the weight, even in poor lighting conditions
- Dimensions weighing surface  $\varnothing$  91 mm
- Overall dimensions (incl. draught shield) WxDxH 213x407x344 mm
- Weighing space WxDxH 166x156x220 mm
- Net weight approx. 8 kg
- Permissible ambient temperature 10 °C/30 °C

**Accessories**

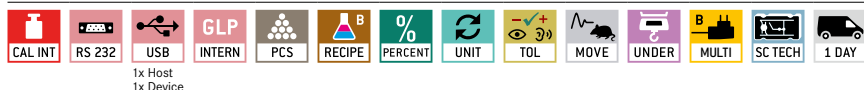
- **Protective working cover**, scope of delivery: 5 items, KERN YBA-A06S05, **€ 40,-**
- **Set for density determination** of liquids and solids with density  $\leq/\geq 1$ , the density is indicated directly on the display, KERN YDB-03, **€ 390,-**

- **Draft shield rear panel with integrated ionizer** to neutralise electrostatic charge. Is fitted in place of the existing glass rear panel of the draft shield. Suitable for all models in the KERN ABP range, please order at the time you order your balance, the scope of delivery is the rear panel, ionizer, power supply. Factory Option, KERN ABP-A01, **€ 1710,-**
- **USB barcode scanner**, hand-held version, dimensions WxDxH 152x84x63 mm, KERN PET-A09, **€ 350,-**
- **Clavier USB** pour saisie aisée d'articles, dimensions LxPxH 440x128x24 mm, KERN PET-A06, **€ 45,-**
- **Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03, **€ 970,-**
- **Minimum weight of sample**, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, **€ 10,-**
- **Equipment qualification:** compliant qualification concept which includes the following validation services: Installation Qualification (IQ), Operating Qualification (OQ), KERN 961-231B, **€ 750,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

Single-cell advanced technology:

- **Fully automatic manufactured weighing cell from one piece of material**
- **Stable temperature behaviour**
- **Short stabilisation time:** steady weight values within approx. 2 s (models with [d] = 0,1 mg), approx. 8 s (models with [d] = 0,01 mg) under laboratory conditions
- **Shock proof construction**
- **High corner load performance**

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max] g	Readability [d] mg	Verification value [e] mg	Minimal load [Min] mg	Reproducibility mg	Linearity mg	Price excl. of VAT ex works €	Option			
								Verification		DAkkS Calibr. Certificate	
KERN								MT KERN	€	DAkkS KERN	€
ABP 100-4M	120	0,1	1	10	0,1	± 0,2	1840,-	965-201	110,-	963-101	138,-
ABP 200-4M	220	0,1	1	10	0,1	± 0,2	2220,-	965-201	110,-	963-101	138,-
ABP 300-4M	320	0,1	1	10	0,1	± 0,3	2470,-	965-201	110,-	963-101	138,-
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readability [d]											
ABP 100-5DM	52   120	0,01   0,1	1	1	0,02   0,1	± 0,03   0,3	2660,-	965-201	110,-	963-101	138,-
ABP 200-5DM	102   220	0,01   0,1	1	1	0,02   0,1	± 0,03   0,3	2850,-	965-201	110,-	963-101	138,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.



## The premium model with single-cell weighing system

### Features

- **Automatic internal adjustment** in the case of a change in temperature  $\geq 0,5$  °C or timecontrolled every 4 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- **Dosage aid:** High-stability mode and other filter settings can be selected
- **Simple recipe weighing and documenting** with a combined tare/print function. In addition, the ingredients for the recipe are numbered automatically and printed out with their corresponding number and nominal weight
- **Identification number:** 4 digits, printed on calibration protocol freely programmable
- **Automatic data output to the PC/printer** each time the balance is steady
- **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed.
- **Protective working cover** included with delivery

### Technical data

- Large LCD display, digit height 14 mm
- Dimensions weighing surface, stainless steel,  $\varnothing$  80 mm
- Overall dimensions (incl. draught shield) W×D×H 217×356×338 mm
- Weighing space W×D×H 168×172×223 mm
- Net weight approx. 7 kg
- Permissible ambient temperature 10 °C/30 °C

### Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN ABT-A02S05, € 40,-
- **1 Set for density determination** of liquids and solids with density  $\leq/\geq 1$ , the density is indicated directly on the display, KERN YDB-03, € 390,-
- **2 Ionizer** to neutralise electrostatic charge, KERN YBI-01A, € 890,-

- **3 Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03, € 970,-
- **Minimum weight of sample**, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, € 10,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

### 4 Single-cell advanced technology:

- **Fully automatic manufactured weighing cell from one piece of material**
- **Stable temperature behaviour**
- **Short stabilisation time:** steady weight values within approx. 4 s under laboratory conditions
- **Shock proof construction**
- **High corner load performance**

#### STANDARD



#### OPTION



#### FACTORY



Model	Weighing capacity [Max] g	Readability [d] mg	Verification value [e] mg	Minimal load [Min] mg	Reproducibility mg	Linearity mg	Price excl. of VAT ex works €	Option			
								Verification		DAkkS Calibr. Certificate	
KERN								MU KERN	€	DAkkS KERN	€
ABT 120-4NM	120	0,1	1	10	0,1	± 0,2	1450,-	965-201	110,-	963-101	138,-
ABT 220-4NM	220	0,1	1	10	0,1	± 0,2	1760,-	965-201	110,-	963-101	138,-
ABT 320-4NM	320	0,1	1	10	0,1	± 0,3	1960,-	965-201	110,-	963-101	138,-
ABT 100-5NM	101	0,01	1	1	0,05	± 0,15	1900,-	965-201	110,-	963-101	138,-
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readability [d]											
ABT 120-5DNM	42   120	0,01   0,1	1	1	0,02   0,1	± 0,05   0,2	2000,-	965-201	110,-	963-101	138,-
ABT 220-5DNM	82   220	0,01   0,1	1	1	0,05   0,1	± 0,1   0,2	2060,-	965-201	110,-	963-101	138,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

## Moisture analysers

Moisture analysing is an integral part of production and processing of many raw and finished products and has a crucial impact on the quality of the product.

Moisture analysers are used particularly in the food industry, water resource management (sewage plants, etc.), plastics industry, agriculture and the energy industry (bio-energy plants, etc.).

Determining moisture requires a great deal of experience. Depending on the type of sample and the task involved, various drying processes are used.

KERN has concentrated on the most widely-used drying method: halogen drying, which brings many advantages:

- Sample is evenly warmed from above, without risk of burning the sample surface
- Affordable purchase costs ensure rapid amortisation of the device
- Most common temperature ranges from 35 – 200 °C
- High measuring precision, up to 0.01 %
- Sufficient buffer capacity, weighing capacity up to 200 g
- Various drying programs (soft drying, standard drying, drying in levels, rapid drying (Boost))

The numerous memories of the KERN moisture analyser are particularly useful, as they hold information on the complete drying processes with drying parameters such as drying time, drying period, drying temperature, display settings, switch off criteria, etc. This saves an enormous amount of time and helps to achieve repeatable results.





On the internet, you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser.

### Determination of drying parameters

We would be pleased to carry out individual analyses on the sample you submit, which will help you when setting the parameters of your moisture analyser and will lead to results which can be reproduced. KERN 965-243, € 95,-/hour

### Temperature calibration by KERN moisture analyzers (factory calibration certificate)

In order to guarantee the comparability of the results of moisture analyses it is crucial that the heating chamber and therefore the sample are maintained at the correct temperature. Over time, for example, deposits or dirt can contaminate the heating chamber of the moisture analyser and this can distort the measuring results. It is therefore necessary to carry out regular temperature calibration. KERN 964-305, € 140,-

Quick-Finder Moisture analysers								
Readability [d] g	Weighing capacity [Max] g	Model  KERN	Price excl. of VAT ex works €	Page	 DAYS	 CAL EXT	 MEMORY	 RS 232
0,001	60	DBS 60-3	1270,-	47	1	●	●	●
0,001	110	DAB 100-3	1050,-	46	1	●	●	●
0,001	160	DLB 160-3A	1150,-	48	1	●	●	●
0,01	200	DAB 200-2	940,-	46	1	●	●	●

● = standard ○ = option

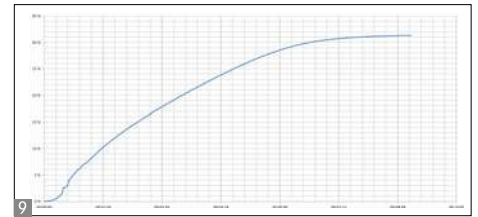
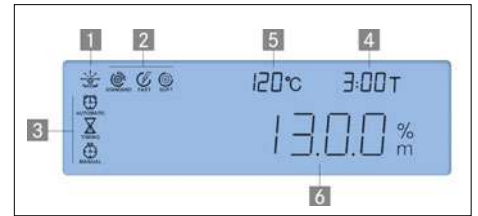
- ▷ **Powerful 400 W halogen quartz glass heater**
- ▷ **High process reliability thanks to 10 storable drying programs and 100 executed drying processes**
- ▷ **Up to 99 samples can be individually labelled and printed out in the measuring protocol**

**Jesús Martínez**  
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only € **1270,-**

# HIGHLIGHT



04

Particularly user-friendly moisture analyzer with high-quality halogen quartz glass heater- also available as version with [d] = 10 mg, ideal for recurring rapid tests

**Features**

- KERN DAB 200-2: Version with lower resolution, whereby the switch-off criterion is reached faster, which saves time. Ideal for quick tests and spot checks
- Backlit graphic display, digit height 14 mm
- 1 Drying process active
- 2 Active heating profile
- 3 Active switch-off criteria
- 4 Previous drying time
- 5 Current temperature
- 6 Current moisture content in %

- **Halogen quartz glass heater** 400 W
- **Observation window above the sample**, useful during initial setting
- **Internal memory** for automatic sequence of 15 complete drying processes and 5 drying processes carried out
- The last value measured remains on the display until it is replaced by a new measurement
- **50 sample plates included**

- **Application handbook:** On the internet, you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser

**Accessories**

- **Sample plates aluminium**, ø 90 mm, unit of 80 pieces, KERN MLB-A01A, € 45,-
- **Round fiberglass filter** high mechanical stability, with organic binder, box of 100 pieces, KERN RH-A02, € 80,-
- **Round fiberglass filter**, medium mechanical stability, without organic binder, box of 100 pieces, KERN YMF-A01, € 40,-
- **7 Temperature calibration set** consists of measuring sensor and display device, KERN DAB-A01., € 110,-
- **8 Infrared quartz glass heater**, temperature range 40 °C-160 °C, Factory Option, KERN DAB-A02, € 165,-
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, € 290,-
- **RS-232/Bluetooth adapter** to connect to Bluetooth capable devices, such as Bluetooth printers, tablets, laptops, smartphones, etc., KERN YKI-02, € 290,-
- **RS-232/WiFi adapter** for wireless connection to networks and WLAN capable devices, such as tablets, laptops or smartphones, KERN YKI-03, € 690,-
- **9 Display of the drying process** in conjunction with BalanceConnection, KERN SCD-4.0, € 150,-
- **Thermal printer**, KERN YKB-01N, € 310,-
- **Matrix needle printer**, to print the weights on normal paper, ideal for long-term archiving, KERN 911-013, € 390,-

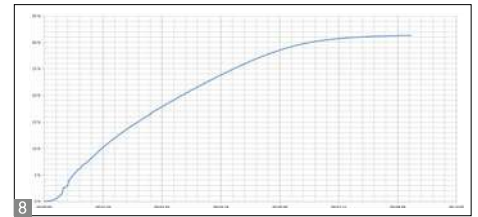
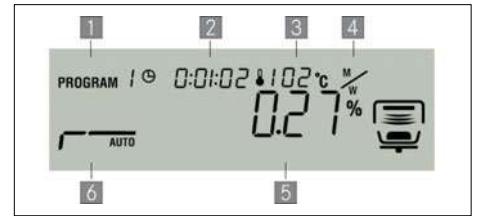
STANDARD

CAL EXT | MEMORY | RS 232 | GLP | PRINTER | UNIT | 230 V | DMS | 1 DAY

OPTION

DAkkS +3 DAYS

Model KERN	DAB 200-2	DAB 100-3
Readability [d]	0,01 g/0,05 %	0,001 g/0,01 %
Weighing capacity [Max]	200 g	110 g
Reproducibility weight of sample 2 g	1,5 %	0,15 %
Reproducibility, weight of sample 10 g	0,3 %	0,02 %
Display after drying (Display can be switched over at any time)		
Moisture [%] = Moisture content (M) from wet weight (W)	0 - 100 %	
Dry content [%] = Dry weight (D) from W	100 - 0 %	
Moisture content (M)	Absolute value in [g]	
Temperature range	40 °C - 199 °C in steps up to 1 °C	40 °C - 160 °C in steps up to 1 °C
Drying modes	<input type="checkbox"/> Standard drying <input type="checkbox"/> Gentle drying <input type="checkbox"/> Rapid drying	
Switch-off criteria	• Automatic switch-off (2 mg loss in weight in 45 s) • Time controlled switch-off (3 min - 99 min 59 s, 10 s increments) • Manual switch-off at the press of a button	
Recall of measurement/ Log output	Interval can be set from 1 s - 10 min (Only when used with printer or PC)	
Overall dimensions WxDxH	240x365x180 mm	
Net weight	4,82 kg	
Price €, excl. of VAT, ex works	940,-	1050,-
Option DAkkS Calibr. Certificate	Mass: KERN 963-127, € 72,-	
Option Factory Calibr. Certificate	Temperature: KERN 964-305, € 140,-	



Moisture analyzer with high-quality single-cell weighing system for outstanding stability, reliability and response speed

**Features**

- Tip: Suitable for samples with low moisture content, e.g. plastics
- Backlit graphic display, digit height 15 mm
- 1 Drying process active
- 2 Previous drying time
- 3 Current temperature
- 4 Unit for displaying the results
- 5 Current moisture content in %
- 6 Active heating profile

- **Halogen quartz glass heater** 400 W
- Excellent temperature control thanks to halogen technology, suitable for temperature-sensitive samples
- **Internal memory** for automatic sequence of 10 complete drying processes and 100 drying processes carried out
- The last value measured remains on the display until it is replaced by a new measurement

- Password protection to prevent manipulation of stored settings, data, etc.
- **Sample description** for up to 99 samples, 2 digits, freely programmable, and is printed in the measuring protocol
- **Date and time display** as standard
- **USB data interface** for transferring weighing data to the PC, printer etc. \*Can only be used in combination with KERN DBS-A02
- **10 sample plates included**
- **Protective working cover** included with delivery
- **Application handbook:** On the internet, you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser

STANDARD

CAL EXT MEMORY RS 232 USB GLP INTERN UNIT 230 V FORCE SC TECH 1 DAY

OPTION

DAkKS +3 DAYS

Modell KERN	DBS 60-3
Readability [d]	0,001 g/0,01 %
Weighing capacity [Max]	60 g
Reproducibility weight of sample 2 g	0,15 %
Reproducibility, weight of sample 10 g	0,02 %
Display after drying	
Moisture [%] = Moisture content (M) from wet weight (W)	0-100 %
Dry content [%] = Dry weight (D) from W	100-0 %
ATRO [%] [(W-D) : D] · 100%	0-999 %
Moisture content (M)	Absolute value in [g]
Temperature range	50 °C-200 °C in steps up to 1 °C
Drying modes	<input type="checkbox"/> Standard drying <input type="checkbox"/> Drying in levels <input type="checkbox"/> Gentle drying <input type="checkbox"/> Rapid drying
Switch-off criteria	• Automatic unrestricted switch-off (Selectable loss in weight 0,01%-0,1% in 30 s) • Time controlled switch-off (1 min - 12 h) • Manual switch-off at the press of a button
Recall of measurement/ Log output	Interval can be set from 1 s - 10 min (Only when used with printer or PC)
Overall dimensions WxDxH	204x336x167 mm
Net weight	approx. 4,6 kg
Price €, excl. of VAT, ex works	1270,-
Option DAkKS Calibr. Certificate	Mass: KERN 963-127, € 72,-
Option Factory Calibr. Certificate	Temperature: KERN 964-305, € 140,-

**Accessories**

- **Protective working cover**, scope of delivery: 5 items, KERN DBS-A03S05, € 65,-
- **Sample plates aluminium**, ø 90 mm, unit of 80 pieces, KERN MLB-A01A, € 45,-
- **Round fiberglass filter** high mechanical stability, with organic binder, box of 100 pieces, KERN RH-A02, € 80,-
- **Temperature calibration set** consists of measuring sensor and display device, KERN DBS-A01., € 450,-
- **USB interface kit** for bi-directional data exchange between balance/moisture analyser and computer. Scope of delivery: USB cable, driver, Software Balance Connection, KERN DBS-A02, € 290,-
- **Display of the drying process** in conjunction with BalanceConnection, KERN SCD-4.0, € 150,-
- **Thermal printer**, KERN YKB-01N, € 310,-
- **Matrix needle printer**, to print the weights on normal paper, ideal for long-term archiving, KERN 911-013, € 390,-
- **Label printer**, KERN YKE-01, € 590,-



04

## The moisture analyser for heavy samples

### Features

- Backlit LCD display, digit height 17 mm
  - 1 Current moisture content in %
  - 2 Unit for displaying the results
  - 3 Drying process active
- **Halogen quartz glass heater** 400 W
- **Internal memory** for automatic sequence of 5 complete drying processes

- The last value measured remains on the display until it is replaced by a new measurement
- **10 sample plates included**
- **Protective working cover** included with delivery
- **Application handbook:** On the internet, you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser

### Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN ALJ-A01S05, **€ 40,-**
- **Sample plates aluminium**,  $\varnothing$  90 mm. unit of 80 pieces, KERN MLB-A01A, **€ 45,-**
- **4 Round fiberglass filter** high mechanical stability, with organic binder, box of 100 pieces, KERN RH-A02, **€ 80,-**
- **Round fiberglass filter**, medium mechanical stability, without organic binder, box of 100 pieces, KERN YMF-A01, **€ 40,-**
- **4 Temperature calibration set** consists of measuring sensor and display device, KERN DLB-A01N., **€ 460,-**
- **Thermal printer**, KERN YKB-01N, **€ 310,-**
- **Matrix needle printer**, to print the weights on normal paper, ideal for long-term archiving, KERN 911-013, **€ 390,-**

#### STANDARD



#### OPTION



<b>Modell KERN</b>	<b>DLB 160-3A</b>
<b>Readability [d]</b>	0,001 g/0,01 %
<b>Weighing capacity [Max]</b>	160 g
<b>Reproducibility, weight of sample 10 g</b>	0,05 %
<b>Display after drying (Display can be switched over at any time)</b>	
<b>Moisture [%] = Moisture content (M) from wet weight (W)</b>	0-100 %
<b>Dry content [%] = Dry weight (D) from W</b>	100-0 %
<b>ATRO [%] [(W-D) : D] · 100%</b>	0-999 %
<b>Moisture content (M)</b>	Absolute value in [g]
<b>Temperature range</b>	35 °C-160 °C in steps up to 1 °C
<b>Drying modes</b>	<input checked="" type="checkbox"/> Standard drying <input checked="" type="checkbox"/> Rapid drying, preheating can be switched on
<b>Switch-off criteria</b>	<ul style="list-style-type: none"> <li>• Automatic unrestricted switch-off (Selectable loss in weight 0,1%-9,9% in 60 s)</li> <li>• Time controlled switch-off (1 min - 99 min)</li> <li>• Manual switch-off at the press of a button</li> </ul>
<b>Log output</b>	<ul style="list-style-type: none"> <li>• Continuous output (residual weight)</li> <li>• At the end of the drying process, manual or automatic (Only in connection with printer or PC)</li> </ul>
<b>Overall dimensions WxDxH</b>	210x340x225 mm
<b>Net weight</b>	approx. 4,2 kg
<b>Price €, excl. of VAT, ex works</b>	<b>1150,-</b>
<b>Option DAkkS Calibr. Certificate</b>	Mass: KERN 963-127, € 72,-
<b>Option Factory Calibr. Certificate</b>	Temperature: KERN 964-305, € 140,-

Price reduction



## Bench scales

### Compact industrial weighing technology

Thanks to their compact dimensions, low weight, robust internal mechanism and the fact that they can be operated independent of mains power, bench scales can be used not only in a stationary situation, but also as mobile scales.

With weighing ranges between 3 kg and 65 kg, bench scales can cover a wide range of applications. Whether as a commissioning scale in the warehouse, for inventory purposes, on a production work station, in quality control, in small workshops, in service cars or in sales offices, bench scales are the first choice.

Durable stainless steel weighing plates, easy to read backlit displays, useful functions such as piece counting, PRE-TARE – subtraction of a known container weight, or ► **interfaces** to PC and printer, all these support the users in their daily work.

► **Dual range** scales cover a particularly wide range of applications. With these scales, the total weighing range is divided into 2 subranges and begins with a high resolution read-out in the fine weighing range. If this range is exceeded the balance automatically switches to the higher weighing range with the lower resolution read-out.

All KERN bench scales have an adjustment program (CAL) to adjust the accuracy. In this way, the high level of accuracy is guaranteed at all times, even during harsh everyday use. Find the right test weights for you, see page 184.

### Touchscreen balances

The newest development for an even greater level of user-friendliness is the intuitive touchscreen operation, which is being integrated into new KERN models, see page 58/59 (FKT), 108/109 (IKT).

**NOTE:** a high-quality touchscreen bench scale range (KERN GAT, page 60/61) and touchscreen platform scale range (KERN IFT, page 110/111). Thanks to the intuitive touchscreen concept and multi-lingual operation (DE, GB, IT, ES, PT, NL, FI, PL, RUS, SE, CZ) the balances can be used easily by inexperienced users, straightaway. For the professional user, the balances also provide convenient functions which permit a high level of individualisation and which thereby make operation significantly easier and quicker. Through a large memory, e.g. for item master data, weighing data etc. the balances are the ideal solution when working with a large range of goods or where there are high requirements for record keeping and documentation. Thanks to the high level of connectivity it is easy to connect barcode readers for item recognition, USB sticks for data storage or data transfer to PCs and networks using RS 232 or USB and this means that this range can be used for many different functions in Industry 4.0 applications.

► **See the glossary on page 223–225**

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- ▷ Simple and convenient 5-key operation
- ▷ Very fast display
- ▷ High mobility



only €  
**185,-**

# HIGHLIGHT

# Quick-Finder Bench scales

Readability [d] g	Weighing capacity [Max] kg	Weighing plate WxD mm	Model KERN	Price excl. of VAT ex works €	Page	 For an explanation on the pictos, see front flap											
0,02	6	340x240	FKB 6K0.02	520,-	57	1		●			●	●			●	●	
0,02	6	340x240	FKT 6K0.02L	880,-	59	1		●	●	●	●	●			●	●	○
0,05	6	294x225	GAB 6K0.05N	295,-	56	1		●		●	●	●					○
0,05	8	340x240	FKB 8K0.05	480,-	57	1		●		●	●	●			●	●	○
0,05	16	340x240	FKB 16K0.05	580,-	57	1		●		●	●	●			●	●	○
0,05	16	340x240	FKT 16K0.05L	880,-	59	1		●	●	●	●	●			●	●	○
0,1	3	253x227	FCF 3K-4	185,-	53	1		●				●			●	●	○
0,1	3	253x227	FCB 3K0.1	215,-	54	1		●		●	●	●			●	●	○
0,1	8	253x227	FCB 8K0.1	240,-	54	1		●		●	●	●			●	●	○
0,1	8	340x240	FKB 8K0.1A	300,-	55	1		●		●	●	●			●	●	○
0,1	12	294x225	GAB 12K0.1N	295,-	56	1		●		●	●	●					○
0,1	16	340x240	FKB 16K0.1	480,-	57	1		●		●	●	●			●	●	○
0,1	36	340x240	FKB 36K0.1	550,-	57	1		●		●	●	●			●	●	○
0,1	36	340x240	FKT 36K0.1L	880,-	59	1		●	●	●	●	●			●	●	○
0,2	6	300x225	GAT 6K-4	750,-	60	1		●	●	●	●		●				○
0,2	30	294x225	GAB 30K0.2N	295,-	56	1		●		●	●	●					○
0,2	36	340x240	FKB 36K0.2	510,-	57	1		●		●	●	●			●	●	○
0,2	65	340x240	FKB 65K0.2	550,-	57	1		●		●	●	●			●	●	○
0,2	65	340x240	FKT 65K0.2L	880,-	59	1		●	●	●	●	●			●	●	○
0,5	6	253x227	FCB 6K0.5	195,-	54	1		●		●	●	●			●	●	○
0,5	15	340x240	FKB 15K0.5A	290,-	55	1		●		●	●	●			●	●	○
0,5	15	300x225	GAT 10K-4	750,-	60	1		●	●	●	●		●				○
0,5	30	340x240	FKT 30K0.5L	780,-	59	1		●	●	●	●	●			●	●	○
0,5	65	340x240	FKB 65K0.5	510,-	57	1		●		●	●	●			●	●	○
1	3	252x228	FCE 3K1N	110,-	52	1			●							●	○
1	6	340x240	FKT 6K1LM	880,-	59	1	○	●	●	●	●	●			●	●	○
1	12	253x227	FCB 12K1	185,-	54	1		●		●	●	●			●	●	○
1	15	340x240	FKB 15K1A	260,-	55	1		●		●	●	●			●	●	○
1	30	253x227	FCF 30K-3	185,-	53	1		●				●			●	●	○
1	30	253x227	FCB 30K1	220,-	54	1		●		●	●	●			●	●	○
1	30	340x240	FKB 30K1A	300,-	55	1		●		●	●	●			●	●	○
1	30	300x225	GAT 30K-3	750,-	60	1		●	●	●	●	●		●			○
1	60	340x240	FKT 60K1L	780,-	59	1		●	●	●	●	●			●	●	○
1	65	340x240	FKB 65K1A	320,-	55	1		●		●	●	●			●	●	○
1   2	3   6	295x225	GAB 6K1DNM	225,-	56	1	○	●		●	●	●					○
2	6	252x228	FCE 6K2N	110,-	52	1			●							●	○
2	12	340x240	FKT 12K2LM	880,-	59	1	○	●	●	●	●	●			●	●	○
2	24	253x227	FCB 24K2	185,-	54	1		●		●	●	●			●	●	○
2   5	6   15	300x230	GAB 15K2DNM	225,-	56	1	○	●		●	●	●					○
5	10	320x260	ECE 10K-3N	95,-	51	1		●								●	○
5	10	320x260	ECB 10K-3N	110,-	51	1		●								●	○
5	15	252x228	FCE 15K5N	110,-	52	1		●								●	○
5	30	340x240	FKT 30K5LM	880,-	59	1	○	●	●	●	●	●			●	●	○
5   10	15   30	294x225	GAB 30K5DNM	225,-	56	1	○	●		●	●	●					○
10	20	320x260	ECE 20K-2N	95,-	51	1		●								●	○
10	20	320x260	ECB 20K-2N	110,-	51	1		●								●	○
10	30	252x228	FCE 30K10N	110,-	52	1		●								●	○
10	60	340x240	FKT 60K10LM	880,-	59	1	○	●	●	●	●	●			●	●	○
20	50	320x260	ECE 50K-2N	95,-	51	1		●								●	○
20	50	320x260	ECB 50K-2N	110,-	51	1		●								●	○

● = standard ○ = option

05



## Plain, mobile, uncomplicated

### Features

- **High mobility:** Battery operation, compact, lightweight construction, recessed grips on the underside and low weight make this balance ideal for use in several locations
- Particularly large weighing plate
- **Very fast display:** steady weight values within 2 s
- **Simple and convenient 2-key operation**

### Technical data

- KERN ECB-N: Large backlit LCD display, digit height 21 mm
- KERN ECE-N: Large LCD display, digit height 21 mm
- Dimensions weighing surface W×D 320×260 mm
- Weighing plate material
  - KERN ECE-N: plastic
  - KERN ECB-N: stainless steel, see larger picture
- Overall dimensions W×D×H 320×300×60 mm
- Optional battery operation, 6×1.5 V AA, standard, operating time up to 100 h, AUTO-OFF function to preserve the battery
- Net weight
  - KERN ECE-N: approx. 1,6 kg
  - KERN ECB-N: approx. 2,6 kg
- Permissible ambient temperature 5 °C/35 °C

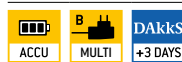
### Accessories

- **Rechargeable battery pack internal,** operating time up to 30 h without backlight, charging time approx. 10 h, KERN PCB-A01, **€ 75,-**
- **Rechargeable battery pack external,** operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 160,-**
- **Tare pan made of stainless steel,** ideal for weighing loose small parts, fruit, vegetables etc., W×D×H 370×240×20 mm, KERN RFS-A02, **€ 55,-**
- **External universal mains adapter,** with universal input and optional input socket adapters for EU, GB, USA, KERN YKA-03N, **€ 32,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

#### STANDARD



#### OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate	
						DAkkS KERN	€
KERN							
ECE 10K-3N	10	5	5	± 20	<b>95,-</b>	963-128	88,-
ECE 20K-2N	20	10	10	± 40	<b>95,-</b>	963-128	88,-
ECE 50K-2N	50	20	20	± 80	<b>95,-</b>	963-128	88,-
ECB 10K-3N	10	5	5	± 20	<b>110,-</b> ↓	963-128	88,-
ECB 20K-2N	20	10	10	± 40	<b>110,-</b> ↓	963-128	88,-
ECB 50K-2N	50	20	20	± 80	<b>110,-</b> ↓	963-128	88,-

↓ Price reduction



05

Entry-level bench scale – mobile, practical, lightweight

Features

- **Simple and convenient 2-key operation**
- **Very fast display:** steady weight values within 3 s
- **1** Ideal as a compact letter and parcel scale, especially where space is limited
- **2** Ideal as a grading, commissioning or simple checkweighing scale in production or dispatch
- **Protective working cover** included with delivery

Technical data

- Large LCD display, digit height 25 mm
- Dimensions weighing surface, plastic, W×D 252×228 mm
- Overall dimensions W×D×H 270×323×110 mm
- Optional battery operation, 9 V-Block not included in scope of delivery, operating time up to 12 h, AUTO-OFF function to preserve the battery
- Net weight approx. 2,4 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN FCB-A02S05, € 40,-
- **Stainless steel weighing plate**, robust, removable, for easy cleaning, KERN FCE-A01, € 35,-
- **Rechargeable battery pack internal**, operating time up to 20 h without backlight, charging time approx. 10 h, KERN FCB-A01, € 50,-

STANDARD					OPTION	
CAL EXT	BATT	MULTI	DMS	1 DAY	ACCU	DAKKS +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Price excl. of VAT ex works €	Option	
						DAKKS KERN	DAKKS Calibr. Certificate €
FCE 3K1N	3	1	2	± 3	110,-	963-127	72,-
FCE 6K2N	6	2	2	± 4	110,-	963-128	88,-
FCE 15K5N	15	5	10	± 15	110,-	963-128	88,-
FCE 30K10N	30	10	10	± 30	110,-	963-128	88,-



Compact bench scale with multi-purpose functionality and a high level of accuracy for use in industry, gastronomy and kitchen

**Features**

- **Simple and convenient 5-key operation**
- **Very fast display:** steady weight values within 3 s
- Ideal as a
  - compact letter and parcel scale, especially in constricted spaces
  - grading or commissioning balance or simple checkweigher in production or dispatch
  - Checkweigher in the catering trade, cafeterias, school kitchens
- **High mobility:** thanks to battery operation/rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- **Protective working cover** included with delivery

**Technical data**

- Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, WxD 253x228 mm
- Overall dimensions WxDxH 270x345x106 mm
- Optional battery operation, 9 V-Block not included in scope of delivery, operating time up to 20 h, AUTO-OFF function to preserve the battery
- Net weight approx. 2,8 kg
- Permissible ambient temperature 5 °C/35 °C

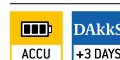
**Accessories**

- **Protective working cover**, scope of delivery: 5 items, KERN FCF-A01S05, € 40,-
- **Rechargeable battery pack internal**, operating time up to 120 h without backlight, charging time approx. 16 h, KERN GAB-A04, € 40,-

STANDARD



OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Smallest part weight [Normal] g/piece	Price excl. of VAT ex works €	Option	
							DAkkS KERN	DAkkS Calibr. Certificate €
KERN FCF 3K-4	3	0,1	0,1	± 0,3	2	185,-	963-127	72,-
KERN FCF 30K-3	30	1	1	± 3	20	185,-	963-128	88,-



05

## Bench scale with second display on the backside of the scale

### Features

- **1** **Second display** on the rear of the balance
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **High mobility:** thanks to battery operation/ rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- **Data interface RS-232** standard
- **Protective working cover** included with delivery

### Technical data

- Backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, WxD 253x227 mm
- Overall dimensions WxDxH 270x323x110 mm
- Optional battery operation, 9 V-Block not included in scope of delivery, operating time up to 12 h
- Net weight approx. 2,6 kg
- Permissible ambient temperature 5 °C/35 °C

### Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN FCB-A02S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 12 h without backlight, charging time approx. 10 h, KERN FCB-A01, **€ 50,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

#### STANDARD



#### OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Smallest part weight [Normal] g/piece	Price excl. of VAT ex works €	Option	
							DAKkS KERN	DAKkS Calibr. Certificate €
FCB 3K0.1	3	0,1	0,1	± 0,3	2	215,-	963-127	72,-
FCB 8K0.1	8	0,1	0,1	± 0,3	2	240,-	963-128	88,-
FCB 6K0.5	6	0,5	0,5	± 1,5	10	195,-	963-128	88,-
FCB 12K1	12	1	1	± 3	20	185,-	963-128	88,-
FCB 30K1	30	1	1	± 3	20	220,-	963-128	88,-
FCB 24K2	24	2	2	± 6	40	185,-	963-128	88,-

Price reduction



## Bench scale up to 65 kg with large weighing plate

### Features

- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **Particularly practical:** thanks to the large weighing capacities and compact dimensions, you can accurately weigh heavy loads in the most restricted of spaces. Useful for determining very small weight differences, such as, for example, gas wastage, abrasion of mechanical parts, rock samples, minerals, druses, silver etc.
- Large, robust weighing plate made of stainless steel, removable for easy cleaning
- **Freely programmable weighing unit**, e.g. display direct in special units such as length of wire g/m, surface weight g/m<sup>2</sup>, or else
- **Protective working cover** included with delivery

### Technical data

- Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, WxD 340x240 mm
- Overall dimensions WxDxH 350x390x120 mm
- Optional battery operation, 9 V-Block not included in scope of delivery, operating time up to 12 h
- Net weight approx. 6 kg
- Permissible ambient temperature 5 °C/35 °C

### Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN FKB-A02S05, € 40,-
- **Rechargeable battery pack internal**, operating time up to 10 h without backlight, charging time approx. 10 h, KERN PCB-A01, € 75,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Smallest part weight [Normal] g/piece	Price excl. of VAT ex works €	Option	
							DAkKS KERN	DAkKS Calibr. Certificate €
FKB 8K0.1A	8	0,1	0,1	± 0,3	2	300,-	963-128	88,-
FKB 15K0.5A	15	0,5	0,5	± 1,5	10	290,-	963-128	88,-
FKB 15K1A	15	1	1	± 3	20	260,-	963-128	88,-
FKB 30K1A	30	1	1	± 3	20	300,-	963-128	88,-
FKB 65K1A	65	1	1	± 3	20	320,-	963-129	105,-



## Checkweighing and portioning scale, also with EC type approval [M]

### Features

- **Compact size**, practical for small spaces
- **High mobility**: thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- **Weighing with tolerance range (checkweighing)**: a visual and audible signal helps with portioning, dispensing or grading
- **Totalising** of weights
- **Protective working cover** included with delivery

### Technical data

- Large backlit LCD display, digit height 24 mm
- Dimensions weighing surface WxD 295x225 mm
- Overall dimensions WxDxH 320x345x125 mm
- Net weight approx. 3,0 kg
- Permissible ambient temperature  
GAB-N: 0 °C/40 °C  
GAB-DNM: -10 °C/40 °C

### Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN CFS-A02S05, € 40,-
- **Rechargeable battery pack internal**, operating time up to 90 h without backlight, charging time approx. 12 h, KERN GAB-A04, € 40,-

- **WiFi interface** for wireless connection of the balance to networks and WiFi capable devices, such as tablets, laptops or smartphones, must be ordered at purchase, please ask for delivery time, KERN CFS-A05, € 120,-
- **Signal lamp** for visual support of weighing with tolerance range, KERN CFS-A03, € 250,-
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, € 35,-
- **Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., WxDxH 370x240x20 mm, KERN RFS-A02, € 55,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

### Application examples

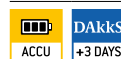
- Small industrial scale for pharmacies
- Hand mixtures of tea, coffee, chocolates
- Portioning of dough, meat, fish, poultry, mixed salads in cafeterias etc.
- Mobile weighing of freshly picked fruit on site
- Checkweigher in supermarkets
- High-precision industrial applications, piece counting or stock-taking

**Note:** Official verification duty for commercial trade

#### STANDARD



#### OPTION



#### FACTORY



Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Smallest part weight [Normal] g/piece	Price excl. of VAT ex works €	Option				
							Verification	€	DAkkS	Certificate	
KERN											
GAB 6K0.05N	6	0,05	-	-	0,5	295,-	-	-	963-128	88,-	
GAB 12K0.1N	12	0,1	-	-	1	295,-	-	-	963-128	88,-	
GAB 30K0.2N	30	0,2	-	-	2	295,-	-	-	963-128	88,-	
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readability [d]											
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.											
Verification at the factory, we need to know the full address of the location of use.											
GAB 6K1DNM	3   6	1   2	1   2	20	2	225,-	965-228	70,-	963-128	88,-	
GAB 15K2DNM	6   15	2   5	2   5	40	5	225,-	965-228	70,-	963-128	88,-	
GAB 30K5DNM	15   30	5   10	5   10	100	10	225,-	965-228	70,-	963-128	88,-	

\* Verification not in combination with KERN CFS-A05





## Large, high resolution bench scale

### Features

- Thanks to the high resolution of up to 360.000 points it is ideal for high-precision weighing in the industrial field
- **Housing with robust aluminium diecast housing trough**, maintains the stability, protects the weighing technology elements and is robust enough to cope with everyday use
- **Particularly practical:** thanks to the large weighing capacities and compact dimensions, you can accurately weigh heavy loads in the most restricted of spaces. Useful for determining very small weight differences, such as, for example, gas wastage, abrasion of mechanical parts, rock samples, minerals, druses, silver etc.
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **Freely programmable weighing unit**, e.g. display direct in special units such as length of wire g/m, surface weight g/m<sup>2</sup>, or else

- **Model with resolution > 240.000 Pkt.:** Level indicator and levelling feet for precise levelling of the scale, fitted as standard
- **Protective working cover** included with delivery

### Technical data

- Backlit LCD display, digit height 18 mm
- Dimensions weighing surface, stainless steel, WxD 340x240 mm
- Dimensions housing WxDxH, 350x390x120 mm
- Optional battery operation, 6x1.5 V Size C not included in scope of delivery, operating time up to 40 h
- Net weight approx. 7 kg
- Permissible ambient temperature 10 °C/40 °C

### Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN FKB-A02S05, € 40,-
- **Rechargeable battery pack external**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01, € 160,-
- **Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., WxDxH 370x240x20 mm, KERN RFS-A02, € 55,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

#### STANDARD



#### OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Smallest part weight [Normal] g/piece	Price excl. of VAT ex works €	Option	
							DAkKS KERN	Certificate €
FKB 6K0.02	6	0,02	0,04	± 0,1	0,2	520,-	963-128	88,-
FKB 8K0.05	8	0,05	0,05	± 0,15	0,5	480,-	963-128	88,-
FKB 16K0.05	16	0,05	0,1	± 0,25	0,5	580,-	963-128	88,-
FKB 16K0.1	16	0,1	0,1	± 0,3	1	480,-	963-128	88,-
FKB 36K0.1	36	0,1	0,2	± 0,5	1	550,-	963-128	88,-
FKB 36K0.2	36	0,2	0,2	± 0,6	2	510,-	963-128	88,-
FKB 65K0.2	65	0,2	0,4	± 1	2	550,-	963-129	105,-
FKB 65K0.5	65	0,5	0,5	± 1,5	5	510,-	963-129	105,-

**Alibi memory**

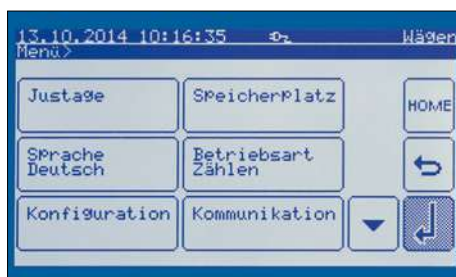
- Ring memory for up to 49,152 measuring results (744 measuring results per day!)
- Saved measuring results cannot be changed or cleared. If the maximum memory capacity is reached, then the oldest value will be overwritten
- In addition to the measuring result, the date, time, tare value, a sequential number and the serial number of the balance are also saved
- Saved measuring results can be searched and recalled easily
- The alibi memory can also be used for applications which do not require verification
- Complies with WELMEC 2.5



Touchscreen industrial scale with enormous range of functions, also with EC type approval [M]



**Easy input of text and values**  
Using large keypad, e.g. up to 80 item descriptions, user name, packaging weights for tare containers etc.



**80 memories for each mode**  
e.g. for Checkweighing, PRE-TARE, reference weight, target value when dispensing, item descriptions, user name, weights for tare containers, etc. Easy to enter using the large-scale keypad



**Weighing with tolerance range (checkweighing)**  
Input of an upper/lower limit value. A visual and audible signal assists with portioning, dispensing or grading

**Features**

- **Convenient recipe weighing:** 99 In recipes with 10 components each can be stored in plain text. There is a function to adjust the other components if the initial weight was too high. The actual values and the desired values well as the proportionate percentages can be printed afterwards.
- **Multiplier function:** recipes with the ingredient weights recorded as percentage values can easily be replicated by entering a new target weight. The ideal solution for the preparation of larger containers, bulk packs etc.
- **Rapid function** for shortened stabilisation time with reduced readability
- **16 print forms** which can store up to 20 different information, such as, e.g., date, time, operator, item, net, tare, gross, PCS, target weight, PRE-TARE etc. The print forms can be generated easily in an Excel list at the PC and transferred to the balance using the RS-232 interface
- **Control outputs (optocoupler, digital I/O)** to connect relays, signal lamps, valves etc. (35 V/80 mA)
- **Protective working cover and hook for underfloor weighing** standard

**Technical data**

- Large backlit LCD touch display, digit height 18 mm, screen diagonal 5,8" (127×74 mm)
- Dimensions weighing surface, stainless steel, W×D 340×240 mm
- Overall dimensions W×D×H 350×390×120 mm
- Optional battery operation, 6×1.5 V Size C not included in scope of delivery, operating time up to 20 h
- Permissible ambient temperature 10 °C/40 °C

**Accessories**

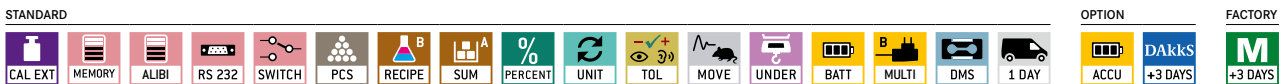
- **Protective working cover**, scope of delivery: 5 items, KERN FKB-A02S05, **€ 40,-**
- **Rechargeable battery pack external**, operating time up to 20 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 160,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- **RS-232/USB adapter**, to connect peripheral devices with USB connection, KERN AFH 12, **€ 85,-**
- **Signal lamp** for visual support of weighing with tolerance range, KERN IKT-A04, **€ 260,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

**Modes**

- ① Weighing
- ② Counting
- ③ Dispensing
- ④ Recipe weighing
- ⑤ Checkweighing
- ⑥ Totalising with daily total
- ⑦ Percentage determination
- ⑧ Animal weighing
- ⑨ Surface weight
- ⑩ Rapid function, not for [M]

**Functions**

- Capacity display with ①-②, ⑤-⑦, ⑨-⑩
- Dispensing aid (-/+), with ③, ④
- Net/gross display, permanent, with ①, ③-⑤, ⑧-⑩
- Variable reference quantity, with ②
- Automatic reference optimisation, with ②
- PRE-TARE numerical or from the memory unit, with ①-⑦, ⑩
- Entering of item or batch description, operator etc., with ①-⑦, ⑩
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, grammage g/m<sup>2</sup>, or similar, with ⑨
- Date/time, with ①-⑩
- Statistical function, with ①
- GLP printout, with ①-⑩
- Individual formatting of up to 16 printer forms, recipes, operating mode master data in MS Excel, import via RS-232, for examples, see the internet, with ①-⑩



Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Smallest part weight [Normal] g/piece	Price excl. of VAT ex works €	Option				
							Verification	€	DAkKS Calibr. KERN	Certificate €	
KERN											
FKT 30K0.5L	30	0,5	-	-	5	780,-	-	-	963-128	88,-	
FKT 60K 1L	60	1	-	-	10	780,-	-	-	963-129	105,-	
High resolution readability											
FKT 6K0.02L	6	0,02	-	-	0,2	880,-	-	-	963-128	88,-	
FKT 16K0.05L	16	0,05	-	-	0,5	880,-	-	-	963-128	88,-	
FKT 36K0.1L	36	0,1	-	-	1	880,-	-	-	963-128	88,-	
FKT 65K0.2L	65	0,2	-	-	2	880,-	-	-	963-129	105,-	

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

FKT 6K1LM	6	1	1	20	10	880,-	965-228	70,-	963-128	88,-
FKT 12K2LM	12	2	2	40	20	880,-	965-228	70,-	963-128	88,-
FKT 30K5LM	30	5	5	100	50	880,-	965-228	70,-	963-128	88,-
FKT 60K10LM	60	10	10	200	100	880,-	965-229	93,-	963-129	105,-

ONLY WHILE STOCKS LAST!

Price reduction



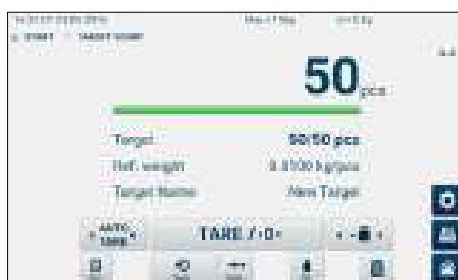
05



KERN **easytouch** bench scale – the intuitive way to weigh



**Convenient piece-counting function**  
**Komfortable Stückzahl-Funktion**  
 Standard use: Direct input of the reference quantity or the reference weight  
 Professional use: Recall of items to be counted from the database with all relevant additional data such as piece weight, name, reference quantity, tare container weight, tolerances. Which means a super-fast sequence when counting: select item – load – count – done!



**Fill-to-target function**  
 Programmable target quantity or target weight. A signal will be displayed when the target value is reached



**Convenient weighing with tolerance range (Checkweighing)**  
 Standard use: Direct input of the tolerances in grams or percent  
 Professional use: Recall of items from the database with all relevant additional data such as piece weight, name, reference quantity, tare container weight, tolerances. That leads to a super-fast sequence when portioning, dosing or sorting: Select item – load – check – done!



**Features**

- High-quality, rapid processors allow efficient, delay-free operation
- Thanks to the **intuitive touchscreen concept** and multi-lingual operation (DE, GB, FR, IT, ES, PT, NL, FI, PL, RUS, SE, CZ) the balance can be used easily by inexperienced users, straightaway. For the professional user, the balance provides convenient functions which permit a high level of individualisation and which thereby make operation significantly easier and quicker.
- Through a **large memory (256 MB)**, e.g. for item master data, weighing data etc. the balance is the ideal solution when working with a large range of goods or where there are high requirements for record keeping and documentation
- **1** Thanks to the high level of **connectivity** it is easy to connect USB sticks for data storage or data transfer to PCs, scales and networks using RS-232 or USB. This means that this range can be used for many different functions in Industry 4.0 applications
- **Convenient recipe weighing**  
 Standard use: Direct input of the recipe ingredients in grams or percent  
 Professional use: Recall of items from the database with all relevant additional data such as target value, tolerances, name, tare container weight. That leads to a super-fast sequence when recipe-weighing: select recipe – weigh – done!  
 A graphic signal helps when dosing individual recipe ingredients. An information column on the lefthand edge of the screen allows you to see at a glance which ingredients have already been weighed (proportionately).

Recipes can be easily transferred via USB stick between the KERN touchscreen scales GAT or IFT

- **Take-Out function:** allows you to remove the same quantity every time, e.g. when portioning in cafeterias or when picking small parts. A colour bar graph shows whether the quantity removed is below the limit or within the specified tolerances (blue) or is above the limit (red)
- **Classifying:** Similar objects are automatically classified according to their weight into predetermined classes.
- **AUTO-PRINT function:** Automatic printing of the weighing when the weighing value remains unchanged. The print function as well as the content of the print-out can be adjusted individually depending on the operating mode
- **Searching and remote control of the balance** using external control devices or computers with the KERN Communication Protocol (KCP). KCP is a standardised interface command structure for KERN balances and other instruments which allows you to recall and manage all relevant parameters and device functions. You can therefore simply connect KERN devices with KCP to computers, industrial control systems and other digital systems. In a large number of cases the KCP is compatible with the MT-SICS protocol. Only possible through data interface RS-232, other interfaces on request
- **2** The battery compartment of the device can be opened easily, which means it is possible to change the batteries without having to use any tools or break any verification seal labels etc.

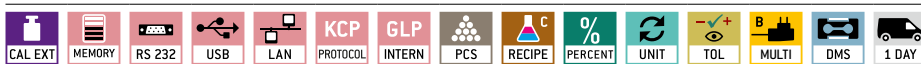
**Technical data**

- Large backlit LCD touch display, digit height 12 mm, screen diagonal 7" (155×85 mm)
- Dimensions weighing surface, stainless steel, W×D 300×225 mm
- Overall dimensions W×D×H 315×350×120 mm

**Accessories**

- **Rechargeable battery pack internal**, operating time up to 40 h with backlight, charging time approx. 12 h, KERN GAB-A04, € 40,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Smallest part weight [Normal] g/piece	Price excl. of VAT ex works €	Option	
							DAKkS Calibr. Certificate	€
KERN							DAKkS	
GAT 6K-4	6	0,2	0,4	± 0,6	2	750,-	963-128	88,-
GAT 10K-4	15	0,5	0,5	± 1,5	5	750,-	963-128	88,-
GAT 30K-3	30	1	2	± 3	10	750,-	963-128	88,-

**1** ONLY WHILE STOCKS LAST!

## Stainless steel/Protection against dust and water splashes IP65...68

### KERN scales – not scared of water at all!

Scales used in industrial situations or the food industry are often exposed to extreme stresses and strains. Water, oils, fats, varnish, dust, dirt, flour, small parts etc. are all natural enemies of a scale. In industries such as the chemical, pharmaceutical, food, manufacturing industries, etc. scales must be able to cope with these stresses without this affecting their performance.





For use in such harsh environmental conditions, levels of protection are defined, which specify which environmental stresses a system can be exposed to with respect to the level of contact, foreign object and moisture protection, without damage being caused to the unit. These levels of protection are described in the following standard: “DIN EN 60529: protection types through housing” The IP code usually consists of a two-digit combination, which gives the relevant level of protection, e.g. IP68.

The first digit specifies the protection level for contact protection and protection against foreign bodies (dust protection), the second digit is for the water and moisture protection (protection against splashes of water).

All stainless steel components of the IP65...68 protected KERN stainless steel scales are made of corrosion-resistant steel of quality class 1.4301 (DIN X5CrNi18-10). The material properties support you in your ► **HACCP**-compliant quality system.

► See the glossary on page 223–225

### Extract from the standard: “DIN EN 60529: protection types through housing”:

KERN-Pictogram	1. digit	Specification	2. digit	Specification
	6	Dustproof	5	Protection against jets of water (nozzle) from any angle (cleaning with a damp cloth)
	6	Dustproof	6	Protection against powerful jets of water
	6	Dustproof	7	Protection against temporary immersion
	6	Dustproof	8	Protection against continuous immersion (designed for continuous use in wet areas, submersion is possible depending on the pressure (water depth))



**Lisa Haiß**

Product specialist Stainless steel scales

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lisa.haiss@kern-sohn.com



only €  
**265,-**

- ▷ Now with innovative checkweighing display
- ▷ With EC-Type Approval [M]
- ▷ Large stainless steel-weighing plate
- ▷ High mobility: thanks to compact, flat construction and low weight, it is suitable for use in several locations (kitchen, cafeteria, warehouse etc.)

# HIGHLIGHT

# Quick-Finder Stainless steel/Protection against dust and water splashes IP65...68

Readability [d] g	Weighing capacity [Max] kg	Model	Price excl. of VAT ex works €	Page									
0,1	0,5	FOB 500-1S	79,-	64	1								
0,1	0,5	FOB 0.5K-4NS	105,-	65	1								
0,2	1,5	WTB 1K-4N	215,-	69	1								
0,2	1,5	FFN 1K-4N	260,-	70	1								
0,2	3	FOB 3K-4NL	265,-	67	1								
0,5	1,5	FOB 1.5K0.5	180,-	66	1								
0,5	1,5	FOB 1K-4LM	265,-	66	1								
0,5	1,5	WTB 1K-4NM	240,-	69	1								
0,5	1,5	FFN 1K-4NM	285,-	70	1								
0,5	3	WTB 3K-4N	215,-	69	1								
0,5	3	FFN 3K0.5IPN	255,-	70	1								
0,5	3	FXN 3K-4N	305,-	71	1								
0,5   1	5   7,5	FOB 7K-4NL	230,-	67	1								
1	3	FOB 3K1	180,-	66	1								
1	3	FOB 3K-3LM	265,-	66	1								
1	3	WTB 3K-3NM	240,-	69	1								
1	3	FFN 3K1IPM	285,-	70	1								
1	3	FXN 3K-3M	370,-	71	1								
1	5	FOB 5K1S	79,-	64	1								
1	5	FOB 5K-3NS	105,-	65	1								
1	6	WTB 6K-3N	215,-	69	1								
1	6	FFN 6K1IPN	255,-	70	1								
1	6	FXN 6K-3N	305,-	71	1								
1	10	SFB 10K1HIP	670,-	72	1								
1   2	3   6	SXS 6K-3M	670,-	73	1								
1   2	8   15	FOB 10K-3NL	230,-	67	1								
2	6	FOB 6K2	180,-	66	1								
2	6	FOB 6K-3LM	265,-	66	1								
2	6	WTB 6K-3NM	240,-	69	1								
2	6	FFN 6K2IPM	285,-	70	1								
2	6	FXN 6K-3M	370,-	71	1								
2	15	WTB 10K-3N	215,-	69	1								
2	15	FFN 15K2IPN	255,-	70	1								
2	15	FXN 10K-3N	305,-	71	1								
2	20	SFB 20K2HIP	670,-	72	1								
2   5	6   15	SXS 10K-3M	670,-	73	1								
2   5	6   15	SXS 10K-3LM	830,-	73	1								
2   5	16   30	FOB 30K-3NL	230,-	67	1								
5	15	FOB 10K-3LM	265,-	66	1								
5	15	WTB 10K-3NM	240,-	69	1								
5	15	FFN 15K5IPM	285,-	70	1								
5	15	FXN 10K-3M	370,-	71	1								
5	15	SFB 15K5HIPM	680,-	72	1								
5	25	FFN 25K5IPN	255,-	70	1								
5	30	WTB 30K-3N	215,-	69	1								
5	30	FXN 30K-3N	305,-	71	1								
5	50	SFB 50K5HIP	670,-	72	1								
5	50	SFB 50K5LHIP	740,-	72	1								
5	50	SFB 50K-3XL	870,-	72	1								
5   10	15   30	SXS 30K-2M	820,-	73	1								
5   10	15   30	SXS 30K-2LM	1110,-	73	1								
10	25	FFN 25K10IPM	285,-	70	1								
10	30	WTB 30K-2NM	240,-	69	1								
10	30	FXN 30K-2M	370,-	71	1								
10	30	SFB 30K10HIPM	690,-	72	1								
10	100	SFB 100K10HIP	730,-	72	1								
10	100	SFB 100K-2XL	1130,-	72	1								
10   20	30   60	SXS 60K-2M	820,-	73	1								
10   20	30   60	SXS 60K-2LM	1110,-	73	1								
20	60	SFB 60K-2XLM	930,-	72	1								
20	200	SFB 200K-2XL	850,-	72	1								
20   50	60   150	SXS 100K-2M	1110,-	73	1								
20   50	60   150	SXS 100K-2LM	1370,-	73	2								
50	150	SFB 100K-2HM	760,-	72	1								
50	150	SFB 100K-2XLM	1150,-	72	1								
50   100	150   300	SXS 300K-2M	1370,-	73	2								

News 2020

● = standard ○ = option



06

Super compact stainless steel scale for weighing, checking and portioning in the smallest of spaces

**Features**

- **Stainless steel design** of the housing and weighing plate. Its smooth surfaces make it simple to clean
- **High mobility:** thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations (kitchen, sales office, cafeteria, Food industry-Laboratory etc.)
- **Secure and non-slip positioning** with rubber feet
- Your support in a **HACCP**-compliant quality system
- **Particularly flat design**
- **Protective working cover** included with delivery

**Technical data**

- Large LCD display, digit height 20 mm
- Dimensions weighing surface, stainless steel, WxD 125x155 mm
- Overall dimensions WxDxH 175x155x40 mm
- Ready for use: Battery included, 9 V-Block, operating time up to 20 h
- Net weight approx. 0,7 kg
- Permissible ambient temperature 10 °C/40 °C

**Accessories**

- **Protective working cover**, scope of delivery: 5 items, KERN FOB-A11S05, **€ 40,-**
- **Mains adapter external**, KERN FOB-A09, **€ 35,-**

STANDARD

CAL EXT   UNIT   INOX   BATT   DMS   1 DAY

OPTION

230 V   DAKKS +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Weighing plate WxD mm	Price excl. of VAT ex works €	Options	
					DAkKS KERN	DAkKS Calibr. Certificate €
<b>FOB 500-1S</b>	0,5	0,1	155x125	<b>79,-</b>	963-127	72,-
<b>FOB 5K1S</b>	5	1	155x125	<b>79,-</b>	963-127	72,-





## Super compact stainless steel balance with protection type IP65 against dust and water splashes

### Features

- **Stainless steel design** of the housing and weighing plate. Its smooth surfaces make it simple to clean
- **High mobility:** thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations (kitchen, sales office, cafeteria, Food industry-Laboratory etc.)
- **Secure and non-slip positioning** with rubber feet
- **Particularly flat design**
- Your support in a **HACCP**-compliant quality system
- **Protection against dust and water splashes IP65** (only when using battery)
- **Protective working cover** included with delivery

### Technical data

- Large LCD display, digit height 20 mm
- Dimensions weighing surface, stainless steel, W×D 150×120 mm
- Overall dimensions W×D×H 170×150×40 mm
- Ready for use: Batteries included, 9 V-Block, operating time up to 24 hours
- Net weight approx. 0,8 kg
- Permissible ambient temperature 10 °C/35 °C

### Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN FOB-A12S05, **€ 40,-**
- **Mains adapter external**, KERN FOB-A09, **€ 35,-**

#### STANDARD



#### OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Weighing plate W×D mm	Price excl. of VAT ex works €	Options	
					DAkkS KERN	DAkkS Calibr. Certificate €
<b>FOB 0.5K-4NS</b>	0,5	0,1	150×120	<b>105,-</b>	963-127	72,-
<b>FOB 5K-3NS</b>	5	1	150×120	<b>105,-</b>	963-127	72,-



06

Compact stainless steel bench scale with EC type approval [M] and special checkweighing display for even more efficient working

**Features**

- **1 Innovative weighing with tolerance range (Checkweighing):** The colour of the display changes depending on the weight (too light/ok/too heavy) and is an aid to help with portioning, dosing and grading
- **Stainless steel design** of the housing and weighing plate. Its smooth surfaces make it simple to clean
- **High mobility:** thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations (kitchen, sales office, cafeteria, Food industry-Laboratory etc.)
- Your support in a **HACCP**-compliant quality system
- **Secure and non-slip positioning** with rubber feet
- **Increased protection against humidity** through waterproof silicone sealing of the load cell, electronics and soldering joints
- **Check the weighing capacity which is in use** at the press of a button (net/gross weight)
- **Protective working cover** included with delivery

**Technical data**

- Large backlit LCD display, digit height 20 mm
- Overall dimensions W×D×H 240×180×60 mm
- Net weight approx. 2,0 kg
- Permissible ambient temperature 5 °C/35 °C

**Accessories**

- **2 Protective working cover**, scope of delivery: 5 items, KERN FOB-A05S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 24 h without backlight, charging time approx. 8 h, KERN FOB-A07, **€ 45,-**
- **3 Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., W×D×H 370×240×20 mm, KERN RFS-A02, **€ 55,-**

STANDARD      OPTION

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Model	Weighing capacity [Max] kg	Readability [d] g	Weighing plate mm	Price excl. of VAT ex works €	Option	
					DAkkS KERN	DAkkS Calibr. Certificate €
<b>FOB 1.5K0.5</b>	1,5	0,5	175×165	<b>180,-</b>	963-127	72,-
<b>FOB 3K1</b>	3	1	175×165	<b>180,-</b>	963-127	72,-
<b>FOB 6K2</b>	6	2	175×165	<b>180,-</b>	963-128	88,-



Stainless steel bench scale with large weighing ranges and IP67 protection against dust and splash water

**Features**

- **Stainless steel design** of the housing and weighing plate. Its smooth surfaces make it simple to clean
- **1 Suitable for the ever-increasing hygienic requirements** in the food industry
- Your support in a **HACCP-compliant** quality system
- **Protection against dust and water splashes IP67** (only when using battery)
- **High mobility:** thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations (kitchen, sales office, cafeteria, Food industry-Laboratory etc.)
- **Protective working cover** included with delivery

**Technical data**

- Large backlit LCD display, digit height 25 mm, stainless steel
- Overall dimensions W×D×H 285×255×90 mm
- **Ready for use:** Batteries included, 4×1.5 V AA, operating time up to 48 h
- Net weight approx. 3,8 kg
- Permissible ambient temperature 5 °C/35 °C

**Accessories**

- **2 Mains adapter external**, not included, not suitable for model FOB 3K-4NL, KERN FOB-A01, **€ 35,-**
- **Protective working cover**, scope of delivery: 5 items, KERN FOB-A13S05, **€ 40,-**
- **3 Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., W×D×H 370×240×20 mm, KERN RFS-A02, **€ 55,-**

STANDARD: CAL EXT, UNIT, IP 67, INOX, BATT, DMS, 1 DAY

OPTION: 230 V, DAKKS +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Weighing plate W×D mm	Price excl. of VAT ex works €	Option	
					DAkKS KERN	DAkKS Calibr. Certificate €
FOB 3K-4NL	3	0,2	252×200	265,-	963-127	72,-
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readability [d]						
FOB 7K-4NL	5   7,5	0,5   1	252×200	230,-	963-128	88,-
FOB 10K-3NL	8   15	1   2	252×200	230,-	963-128	88,-
FOB 30K-3NL	16   30	2   5	252×200	230,-	963-128	88,-

**NEW** New model



Compact stainless steel bench scale with EC type approval [M] and special checkweighing display for even more efficient working

Features

- **1 Innovative weighing with tolerance range (Checkweighing):** The colour of the display changes depending on the weight (too light/ok/too heavy) and is an aid to help with portioning, dosing and grading
- **Stainless steel design** of the housing and weighing plate. Its smooth surfaces make it simple to clean
- **2 Suitable for the ever-increasing hygienic requirements** in the food industry
- **High mobility:** thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations (kitchen, sales office, cafeteria, Food industry-Laboratory etc.)
- Your support in a **HACCP-compliant** quality system
- **Protection against dust and water splashes IP67** (only when using battery)
- **Secure and non-slip positioning** with rubber feet

- **Increased protection against humidity** through waterproof silicone sealing of the load cell, electronics and soldering joints
- **Check the weighing capacity which is in use** at the press of a button (net/gross weight)
- **Mains adapter** included with delivery
- **Protective working cover** included with delivery

Technical data

- Large backlit LCD display, digit height 25 mm
- Overall dimensions W×D×H 256×285×100 mm
- KERN FOB-LM: Optional battery operation, 4×1.5 V AA, standard, operating time up to 48 h, AUTO-OFF function to preserve the battery
- Net weight approx. 3,8 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- **3 Protective working cover**, scope of delivery: 5 items, KERN FOB-A13S05, € 40,-
- **Mains adapter external**, KERN FOB-A01, € 35,-
- **4 Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., W×D×H 370×240×20 mm, KERN RFS-A02, € 55,-

STANDARD

CAL EXT TOL IP 67 INOX BATT 230 V DMS 1 DAY

OPTION FACTORY

DAkkS +3 DAYS M +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Weighing plate mm	Price excl. of VAT ex works €	Option			
							Verification		DAkkS Calibr. Certificate	
							M	€	DAkkS KERN	€
FOB 1K-4LM	1,5	0,5	0,5	10	248×198	265,-	965-227	55,-	963-127	72,-
FOB 3K-3LM	3	1	1	20	248×198	265,-	965-227	55,-	963-127	72,-
FOB 6K-3LM	6	2	2	40	248×198	265,-	965-228	70,-	963-128	88,-
FOB 10K-3LM	15	5	5	100	248×198	265,-	965-228	70,-	963-128	88,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.



Ideal for food industry, thanks to its IP65 protection and special checkweighing display, also with EC type approval [M]

**Features**

- **Suitable for the ever-increasing hygienic requirements** in the food industry
- Your support in a **HACCP-compliant** quality system
- **1 Protection against dust and water splashes IP65** (only when using rechargeable battery pack)
- **Very fast display:** steady weight values within 2 s
- **2 Second display** on the rear of the balance
- **Compact size**, practical for small spaces
- **3 Innovative weighing with tolerance range (Checkweighing):** The colour of the display changes depending on the weight (too light/ok/too heavy) and is an aid to help with portioning, dosing and grading

- **High mobility:** thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- **Recessed grips on the underside** of the scale for easy transportation
- **Protective working cover** included with delivery

**Technical data**

- Large backlit LCD display, digit height 25 mm
- Weighing plate dimensions, stainless steel, WxD 260x200 mm
- Overall dimensions WxDxH 285x315x128 mm
- Net weight approx. 3,2 kg
- Permissible ambient temperature -10 °C/40 °C

**Accessories**

- **Protective working cover**, scope of delivery: 5 items, KERN RFB-A01S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 50 h without backlight, charging time approx. 12 h, KERN WTB-A01N, **€ 35,-**
- **4 Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., WxDxH 370x240x20 mm, KERN RFS-A02, **€ 55,-**

STANDARD      OPTION      FACTORY

CAL EXT   TOL   IP 65   MULTI   DMS   1 DAY   ACCU   DAKKS +3 DAYS   M +3 DAYS WTB-NM

Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Price excl. of VAT ex works €	Option			
						Verification		DAkkS Calibr. Certificate	
KERN						M III KERN	€	DAkkS KERN	€
WTB 1K-4N	1,5	0,2	-	-	215,-	-	-	963-127	72,-
WTB 3K-4N	3	0,5	-	-	215,-	-	-	963-127	72,-
WTB 6K-3N	6	1	-	-	215,-	-	-	963-128	88,-
WTB 10K-3N	15	2	-	-	215,-	-	-	963-128	88,-
WTB 30K-3N	30	5	-	-	215,-	-	-	963-128	88,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

WTB 1K-4NM	1,5	0,5	0,5	10	240,-	965-227	55,-	963-127	72,-
WTB 3K-3NM	3	1	1	20	240,-	965-227	55,-	963-127	72,-
WTB 6K-3NM	6	2	2	40	240,-	965-228	70,-	963-128	88,-
WTB 10K-3NM	15	5	5	100	240,-	965-228	70,-	963-128	88,-
WTB 30K-2NM	30	10	10	200	240,-	965-228	70,-	963-128	88,-

Price reduction



All-round bench scale, protected by stainless steel and protection type IP65 also with EC type approval [M]

**Features**

- **1 Ideal for the increased hygienic requirements** in the food, pharmaceutical and chemical industries
- Your support in a **HACCP**-compliant quality system
- **2 Ideal for the robust industrial applications**
- **3 Protection against dust and water splashes IP65** (only when using rechargeable battery pack)
- **High mobility:** thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations (kitchen, sales office, cafeteria, Food industry-Laboratory etc.)
- **Stainless steel design** of the housing and weighing plate. Its smooth surfaces make it simple to clean

- **Recessed grips on the underside** of the scale for easy transportation

**Technical data**

- Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, WxD 230x190 mm
- Overall dimensions WxDxH 230x300x130 mm
- Rechargeable battery pack internal, operating time up to 50 h without backlight, charging time approx. 12 h
- Net weight approx. 4,0 kg
- Permissible ambient temperature  
KERN FFN-N: 0 °C/40 °C  
KERN FFN-NM: -10 °C/40 °C

**Accessories**

- **Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., WxDxH 370x240x20 mm, KERN RFS-A02, € 55,-

STANDARD

CAL EXT UNIT IP 65 INOX ACCU MULTI DMS 1 DAY

OPTION FACTORY

DAkkS +3 DAYS M +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Price excl. of VAT ex works €	Option			
						Verification		DAkkS Calibr. Certificate	
						M KERN	€	DAkkS KERN	€
KERN									
FFN 1K-4N	1,5	0,2	-	-	260,-	-	-	963-127	72,-
FFN 3K0.5IPN	3	0,5	-	-	255,-	-	-	963-127	72,-
FFN 6K1IPN	6	1	-	-	255,-	-	-	963-128	88,-
FFN 15K2IPN	15	2	-	-	255,-	-	-	963-128	88,-
FFN 25K5IPN	25	5	-	-	255,-	-	-	963-128	88,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.  
Verification at the factory, we need to know the full address of the location of use.

FFN 1K-4NM	1,5	0,5	0,5	10	285,-	965-227	55,-	963-127	72,-
FFN 3K1IPM	3	1	1	20	285,-	965-227	55,-	963-127	72,-
FFN 6K2IPM	6	2	2	40	285,-	965-228	70,-	963-128	88,-
FFN 15K5IPM	15	5	5	100	285,-	965-228	70,-	963-128	88,-
FFN 25K10IPM	25	10	10	200	285,-	965-228	70,-	963-128	88,-



Robust, space-saving bench scale, protected by stainless steel and IP68 rating – with EC type approval [M]

**Features**

- **Suitable for the ever-increasing hygienic requirements** in the food industry
- Your support in a **HACCP-compliant** quality system
- **Ideal for the robust industrial applications protection against dust and water splashes IP68**, ideal for harsh ambient conditions. Submersion in water actually possible
- **Stainless steel design** of the housing and weighing plate. Its smooth surfaces make it simple to clean
- **Very fast display:** steady weight values within 2 s
- **High mobility:** thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations (kitchen, sales office, cafeteria, Food industry-Laboratory etc.)

- **1 Recessed grips on the underside** of the scale for easy transportation
- **Weighing with tolerance range (check-weighing):** a visual and audible signal helps with portioning, dispensing or grading

**Technical data**

- Large backlit LCD display (FXN-M: green), digit height 25 mm
- Dimensions weighing surface, stainless steel, WxD 236x195 mm
- Overall dimensions WxDxH 240x280x120 mm
- Ready for use: Batteries included, 4x1.5 V Size D, operating time without backlight FXN-N up to 250 h, FXN-M up to 625 h, AUTO-OFF function to preserve the battery
- Net weight approx. 3,2 kg
- Permissible ambient temperature -10 °C/40 °C

**Accessories**

- **2 Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., WxDxH 370x240x20 mm, KERN RFS-A02, € 55,-

**Note:** Official verification duty for commercial trade

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Smallest part weight [Normal] g/piece	Price excl. of VAT ex works €	Option			
							Verification		DAkkS Calibr. Certificate	
KERN							M KERN	€	DAkkS KERN	€
FXN 3K-4N	3	0,5	-	-	5	305,-	-	-	963-127	72,-
FXN 6K-3N	6	1	-	-	10	305,-	-	-	963-128	88,-
FXN 10K-3N	15	2	-	-	20	305,-	-	-	963-128	88,-
FXN 30K-3N	30	5	-	-	50	305,-	-	-	963-128	88,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.										
FXN 3K-3M	3	1	1	20	5	370,-	965-227	55,-	963-127	72,-
FXN 6K-3M	6	2	2	40	10	370,-	965-228	70,-	963-128	88,-
FXN 10K-3M	15	5	5	100	20	370,-	965-228	70,-	963-128	88,-
FXN 30K-2M	30	10	10	200	50	370,-	965-228	70,-	963-128	88,-



06

Stainless steel platform scales with IP65/67 protection, also with XL platform or EC type approval [M]

Features

- **Ideal for the robust industrial applications**
- **1 Platform:** made entirely of stainless steel, silicone-coated stainless steel load cell, protection against dust and water splashes IP67
- **2 Display device:** stainless steel, protection against dust and water splashes IP65 (only when using rechargeable battery pack)
- **3 SFB-H:** **Column,** standard, for models with weighing plate size 300×240 mm: Column height approx. 200 mm  
400×300 mm: Column height approx. 400 mm

Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of display device W×D×H 266×165×96 mm
- Cable length of display device approx. 3 m
- Rechargeable battery pack internal, operating time up to 35 h without backlight, charging time approx. 12 h
- Permissible ambient temperature -10 °C/40 °C

Accessories

- **Data interface RS-232,** interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KFN-A01, **€ 95,-**
- **Stand** to be screwed onto the platform, height of stand approx. 600 mm, KERN SFB-A01, **€ 80,-**
- **4 Stand** to elevate display device, height of stand approx. 800 mm, KERN BFS-A07, **€ 120,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

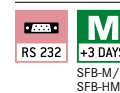
STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Net weight approx. kg	Weighing plate W×D	Price excl. of VAT ex works €	Option				
								Verification		DAkkS Calibr. Certificate		
								Verification	€	DAkkS KERN	€	
<b>KERN</b>												
<b>SFB 50K-3XL</b>	50	5	-	-	14	500×400	<b>870,-</b>	-	-	963-128	88,-	
<b>SFB 100K-2L</b>	100	10	-	-	14	500×400	<b>910,-</b>	-	-	963-129	105,-	
<b>SFB 100K-2XL</b>	100	10	-	-	26	650×500	<b>1130,-</b>	-	-	963-129	105,-	
<b>SFB 200K-2XL</b>	200	20	-	-	26	650×500	<b>850,-</b>	-	-	963-129	105,-	
with elevated display												
<b>SFB 10K1HIP</b>	10	1	-	-	8	300×240	<b>670,-</b>	-	-	963-128	88,-	
<b>SFB 20K2HIP</b>	20	2	2	-	8	300×240	<b>670,-</b>	-	-	963-128	88,-	
<b>SFB 50K5HIP</b>	50	5	5	-	8	300×240	<b>670,-</b>	-	-	963-128	88,-	
<b>SFB 50K5LHIP</b>	50	5	5	-	8	400×300	<b>740,-</b>	-	-	963-128	88,-	
<b>SFB 100K10HIP</b>	100	10	-	-	14	400×300	<b>730,-</b>	-	-	963-129	105,-	
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.												
<b>SFB 60K-2XLM</b>	60	20	20	400	16	500×400	<b>930,-</b>	965-229	93,-	963-129	105,-	
<b>SFB 100K-2XLM</b>	150	50	50	1000	24	650×500	<b>1150,-</b>	965-229	93,-	963-129	105,-	
<b>SFB 300K-1LM *</b>	300	100	100	2000	26	650×500	<b>860,-</b>	965-229	93,-	963-129	105,-	
with elevated display												
<b>SFB 15K5HIPM</b>	15	5	5	100	8	300×240	<b>680,-</b>	965-228	70,-	963-128	88,-	
<b>SFB 30K10HIPM</b>	30	10	10	200	8	300×240	<b>690,-</b>	965-228	70,-	963-128	88,-	
<b>SFB 60K20LHIPM</b>	60	20	20	400	14	400×300	<b>740,-</b>	965-229	93,-	963-129	105,-	
<b>SFB 100K-2HM</b>	150	50	50	1000	13	400×300	<b>760,-</b>	965-229	93,-	963-129	105,-	

\* ONLY WHILE STOCKS LAST

Price reduction





## Stainless steel platform scale with high type of protection IP68 and EC type approval [M]

### Features

- **Ideal for the robust industrial applications**
- **Platform:** made entirely of stainless steel, silicone-coated stainless steel load cell, protection against dust and water splashes IP68. Substruction in wing design, extremely resistant to bending. Earthed weighing plate, to reduce static charge
- **Display device:** stainless steel, protection against dust and water splashes IP68, integrated power supply
- **Suitable for the ever-increasing hygienic requirements** in the food industry
- **Wall mount** for display device, standard
- **Superior display size:** digit height 55 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- Easy-to use KERN menu structure with printout of weighing results which can be intuitively adapted

- Thanks to **interfaces** such as RS-232, RS-485 and Bluetooth (optional) the scale can easily be connected to existing networks and facilitates the data exchange between the scale and printer

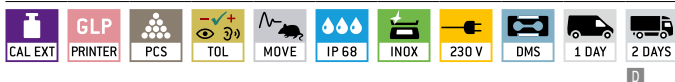
### Technical data

- Large backlit LCD display, digit height 55 mm
- Weighing plate dimensions, stainless steel W×D×H
  - A 300×240×86 mm
  - B 400×300×89 mm
  - C 500×400×123 mm
  - D 650×500×133,5 mm
- Dimensions of display device W×D×H 232×170×80 mm
- Cable length of display device approx. 2,5 m
- Permissible ambient temperature -10 °C/40 °C

### Accessories

- **Stand** to elevate display device, for models with weighing plate size
  - A-D Height of stand approx. 200 mm, KERN IXS-A02, € 70,-
  - B-D Height of stand approx. 400 mm, KERN IXS-A03, € 75,-
  - C-D Height of stand approx. 600 mm, KERN IXS-A04, € 85,-
- **Rechargeable battery pack internal**, operating time up to 80 h without backlight, charging time approx. 12 h, must be ordered at purchase, Factory Option, KERN GAB-A04, € 40,-
- **Data interface RS-232**, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KXS-A04, € 100,-
- **Data interface RS-485**, must be ordered at purchase, KERN KXS-A01, € 145,-
- **Foot switch**, must be ordered at purchase, KERN KXS-A03, € 130,-
- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification, KERN KXS-A02, € 170,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

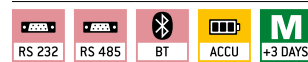
### STANDARD



### OPTION



### FACTORY



Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option			
								Verification		DAkKS Calibr. Certificate	
KERN								M KERN	€	DAKKS KERN	€
SXS 6K-3M	3   6	1   2	1   2	20   40	± 1   2	A	670,-	965-228	70,-	963-128	88,-
SXS 10K-3M	6   15	2   5	2   5	40   100	± 2   5	A	670,-	965-228	70,-	963-128	88,-
SXS 10K-3LM	6   15	2   5	2   5	40   100	± 2   5	B	830,-	965-228	70,-	963-128	88,-
SXS 30K-2M	15   30	5   10	5   10	100   200	± 5   10	B	820,-	965-228	70,-	963-128	88,-
SXS 30K-2LM	15   30	5   10	5   10	100   200	± 5   10	C	1110,-	965-228	70,-	963-128	88,-
SXS 60K-2M	30   60	10   20	10   20	200   400	± 10   20	B	820,-	965-229	93,-	963-129	105,-
SXS 60K-2LM	30   60	10   20	10   20	200   400	± 10   20	C	1110,-	965-229	93,-	963-129	105,-
SXS 100K-2M	60   150	20   50	20   50	400   1000	± 20   50	C	1110,-	965-229	93,-	963-129	105,-
SXS 100K-2LM	60   150	20   50	20   50	400   1000	± 20   50	D	1370,-	965-229	93,-	963-129	105,-
SXS 300K-2M	150   300	50   100	50   100	1000   2000	± 50   100	D	1370,-	965-229	93,-	963-129	105,-

Dual-range balance switches automatically to the next largest weighing capacity [Max] and readability [d]

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.

Verification at the factory, we need to know the full address of the location of use.

\* Either RS-232 or RS-485 can be installed and used

## Price computing scales

Price computing scales are used wherever the price of goods is calculated dependent on the weight of the goods. These scales are subject to obligatory verification (► **Verification**) in accordance with European Directive 2014/31/EU. Usually, are verification class **MIII** scales

KERN mobile retail scales are compact in size and therefore save space on the sales counter. Thanks to the simple menu structure they are easy to use – saving time and money. Fitted with mains or rechargeable batteries as standard, price computing scales can be used in retail shops as well as on mobile sales stalls.

All price computing scales from KERN have three displays showing you all important information at a glance:

- Weight display in kg (verifiable)
- Unit price in €/kg or €/100 g
- Total price in €

**NOTE:** The KERN RFE range also displays the TARE or PRE-TARE value, which enables this value to be stored in a legally binding way in accordance with the Weights and Measures Act.

Even the KERN entry level retail scales have direct access keys for memories (► **PLU**), The sales item with the relevant price can be stored against these PLU. In this way, frequently used sales items can called up at lightning speed. This accelerates customer service and reduces waiting times.

► See the glossary on page 223–225

Quick-Finder Price computing scales						For an explanation on the pictos, see front flap					
Readability [d] g	Weighing capacity [Max] kg	Model  KERN	Price excl. of VAT ex works €	Page							
1   2	3   6	RIB 6K-3M	205,-	75	1	○	●		●	○	
1   2	3   6	RIB 6K-3HM	235,-	75	1	○	●		●	○	
1   2	3   6	RPB 6K1DM	205,-	76	1	○	●	●	●	○	
1   2	3   6	RPB 6K1DHM	220,-	76	1	○	●	●	●	○	
1   2	3   6	RFE 6K3M	280,-	77	1	○	●	●	●	○	
2   5	6   15	RIB 10K-3M	205,-	75	1	○	●		●	○	
2   5	6   15	RIB 10K-3HM	235,-	75	1	○	●		●	○	
2   5	6   15	RPB 15K2DM	205,-	76	1	○	●	●	●	○	
2   5	6   15	RPB 15K2DHM	220,-	76	1	○	●	●	●	○	
2   5	6   15	RFE 15K3M	280,-	77	1	○	●	●	●	○	
5   10	15   30	RIB 30K-2M	205,-	75	1	○	●		●	○	
5   10	15   30	RIB 30K-2HM	235,-	75	1	○	●		●	○	
5   10	15   30	RPB 30K5DM	205,-	76	1	○	●	●	●	○	
5   10	15   30	RPB 30K5DHM	220,-	76	1	○	●	●	●	○	
5   10	15   30	RFE 30K3M	280,-	77	1	○	●	●	●	○	

● = standard ○ = option



**Lisa Haiß**  
Product specialist Price computing scales

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Fax +49 7433 9933-29219  
lisa.haiss@kern-sohn.com



- ▷ Intuitive operation
- ▷ Little space requirements
- ▷ Mains operation and rechargeable battery pack possible
- ▷ Second display which can be fitted on the back of the balance

# HIGHLIGHT



## Robust retail scale with large item memory, user-friendly handling and EC type approval [M]

07

### Features

- **1** KERN RIB-HM: **Elevated display backlit**, height of stand approx. 530 mm, must be ordered at purchase
- **2** KERN RIB-M: **Second display** on the rear of the balance
- **Three displays** for weight display (verifiable), unit price, total price
- **Calculation of change**
- **Soil-resistant construction** through water channels at the frame of the housing and sealing rings over the upper housing inlets
- **10 Direct price keys** for frequently recurring article prices
- **Memory (PLU) for 20 article prices**
- **Energy management:** Backlight turns off after 5 s, can be switched off
- **Soil-resistant construction** through water channels at the frame of the housing and sealing rings over the upper housing inlets

- **Protective working cover** included with delivery

### Technical data

- Large backlit LCD displays, digit height 18 mm
- Dimensions weighing surface, stainless steel, W×D 294×225 mm
- Overall dimensions W×D×H  
KERN RIB-M: 325×400×115 mm  
KERN RIB-HM: 325×340×405 mm
- Net weight  
KERN RIB-M: approx. 3,2 kg  
KERN RIB-HM: approx. 3,8 kg
- Permissible ambient temperature -10 °C/40 °C

### Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN RIB-A01S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 80 h without backlight, charging time approx. 14 h, KERN GAB-A04, **€ 40,-**
- **Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., W×D×H 370×240×20 mm, KERN RFS-A02, **€ 55,-**

### Application examples

- retail shops
- weekly markets
- farm shops
- pick your own fruit and vegetable sales

**Note:** Official verification duty for commercial trade

STANDARD						OPTION		FACTORY	
CAL EXT	MEMORY	UNIT	DMS	230 V	1 DAY	ACCU	+3 DAYS	M	+3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Price excl. of VAT ex works €	Option				
						Verification		DAkkS Calibr. Certificate		
KERN							€	DAkkS KERN	€	
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readability [d]										
RIB 6K-3M	3   6	1   2	1   2	20   40	205,-	965-228	70,-	963-128	88,-	
RIB 10K-3M	6   15	2   5	2   5	40   100	205,-	965-228	70,-	963-128	88,-	
RIB 30K-2M	15   30	5   10	5   10	100   200	205,-	965-228	70,-	963-128	88,-	
with elevated display										
RIB 6K-3HM	3   6	1   2	1   2	20   40	235,-	965-228	70,-	963-128	88,-	
RIB 10K-3HM	6   15	2   5	2   5	40   100	235,-	965-228	70,-	963-128	88,-	
RIB 30K-2HM	15   30	5   10	5   10	100   200	235,-	965-228	70,-	963-128	88,-	

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.  
Verification at the factory, we need to know the full address of the location of use.



07 Retail scale with memories for item prices

**Features**

- **NEW:** modern, ergonomic design and a housing which is even more compact, supporting efficient operation and saving space
- **1** KERN RPB-HM: **Elevated display backlight**, revolving on column, height of stand approx. 480 mm, must be ordered at purchase
- **2** KERN RPB-M: **Second display** on the rear of the balance
- **Three displays** for weight display (verifiable), unit price, total price
- **Calculation of change**
- **Memory (PLU) for 10 article prices**
- **Unit price can be switched** from €/kg to €/100 g
- **Auto-clear-key:** Unit price entry is automatically set to zero when scale is unloaded
- **3 High mobility:** thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations

- **Protective working cover** included with delivery

**Technical data**

- Large backlit LCD displays, digit height 15 mm
- Dimensions weighing surface, stainless steel, W×D 204×263 mm
- Overall dimensions W×D×H  
RPB-M: 310×270×65 mm  
RPB-HM: 310×270×545 mm
- Net weight  
KERN RPB-M: approx. 2,8 kg  
KERN RPB-HM: approx. 3,2 kg
- Permissible ambient temperature -10 °C/40 °C

**Accessories**

- **Protective working cover**, scope of delivery: 5 items, KERN RFC-A02S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 50 h without backlight, charging time approx. 12 h, KERN WTB-A01N, **€ 35,-**
- **4 Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., W×D×H 370×240×20 mm, KERN RFS-A02, **€ 55,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

**Application examples**

- retail shops
- weekly markets
- farm shops
- pick your own fruit and vegetable sales

**Note:** Official verification duty for commercial trade

STANDARD								OPTION		FACTORY	
CAL EXT	MEMORY	RS 232	RECIPE	UNIT	MULTI	DMS	1 DAY	ACCU	DAkKS	M	+3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Price excl. of VAT ex works €	Option				
						Verification		DAkKS Calibr. Certificate		
KERN							€	DAKKS	€	
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readability [d]										
RPB 6K1DM	3   6	1   2	1   2	20	205,-	965-228	70,-	963-128	88,-	
RPB 15K2DM	6   15	2   5	2   5	40	205,-	965-228	70,-	963-128	88,-	
RPB 30K5DM	15   30	5   10	5   10	100	205,-	965-228	70,-	963-128	88,-	
with elevated display										
RPB 6K1DHM	3   6	1   2	1   2	20	220,-	965-228	70,-	963-128	88,-	
RPB 15K2DHM	6   15	2   5	2   5	40	220,-	965-228	70,-	963-128	88,-	
RPB 30K5DHM	15   30	5   10	5   10	100	220,-	965-228	70,-	963-128	88,-	

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.



Compact portion scale with 2 XXL displays – weight, unit price, total price and TARE value at a glance

07

**Features**

- Ideal as a salad scale, sweet scale, check-weigher, portion scale or zero-waste scale: Shopping without plastic or packaging waste in packaging-free supermarkets
- **Large LCD display with four displays** for weight display (verifiable), unit price, total price and stored TARE or PRE-TARE value
- TARE value display: this shows a TARE or PRE-TARE value stored in a PLU, which enables this value to be stored in a legally binding way in accordance with the Weights and Measures Act
- **1 Second display** on the rear of the balance
- **2 Column** to elevate the display as standard, can be easily fitted or removed by the user. The power cable for the second display can be stored in the folding column which is hygienic and gives a tidy appearance. Column height approx. 395 mm
- **3** Thanks to easily-understandable, universal symbols e.g. for weight, piece weight, total price this balance can also be understood and operated easily all over the world
- **Calculation of change**

- **4 Direct price keys** for frequently recurring article prices
- **Memory (PLU) for 100 article prices**
- Item description can be entered, stored and shown on the display in clear text
- **Unit price can be switched** from €/kg to €/100 g
- **Auto-clear-key:** Unit price entry is automatically set to zero when scale is unloaded
- **Headers and footers of the printout** can be programmed directly on the balance
- **High mobility:** thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- **Recessed grips on the underside** of the scale for easy transportation

**Technical data**

- Large backlit LCD display, digit height 20 mm
- Dimensions weighing surface, stainless steel, WxD 230x300 mm
- Overall dimensions WxDxH 320x450x130 mm
- Net weight approx. 4,2 kg
- Permissible ambient temperature -10 °C/40 °C

**Accessories**

- **Label printer** for printing weights on thermal labels, ASCII-capable, for further details, see *Accessories*, KERN YKE-01, € 590,-
- **Rechargeable battery pack internal**, operating time up to 60 h with backlight, charging time approx. 12 h, KERN GAB-A04, € 40,-

**Application examples**

- cafeterias, restaurants, Motorway service stations
- retail shops
- weekly markets
- farm shops
- pick your own fruit and vegetable sales

**Note:** Official verification duty for commercial trade



Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Price excl. of VAT ex works €	Option			
						Verification		DAkkS Calibr. Certificate	
							€	DAkkS KERN	€
<b>RFE 6K3M</b>	3   6	1   2	1   2	20	<b>280,-</b>	965-228	70,-	963-128	88,-
<b>RFE 15K3M</b>	6   15	2   5	2   5	40	<b>280,-</b>	965-228	70,-	963-128	88,-
<b>RFE 30K3M</b>	15   30	5   10	5   10	100	<b>280,-</b>	965-228	70,-	963-128	88,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.



## TIPS FROM THE EXPERTS

As well as our balances and test services, we can offer you an extensive range of medical scales.

We will offer you reliable quality at fair prices and with the shortest delivery times. Our product specialists will give you professional advice, will work with you to find the right product and will provide comprehensive support after the purchase too.

This ensures a high level of investment security and a good feeling – KERN, the nice balance manufacturer from the wilds of Southern Germany.

For all details on our ranges, please see [www.kern-sohn.com](http://www.kern-sohn.com) or request your own personal catalogues right now: Telephone +49 7433 9933-0

### #3 “Medical products from KERN – products you can rely on”

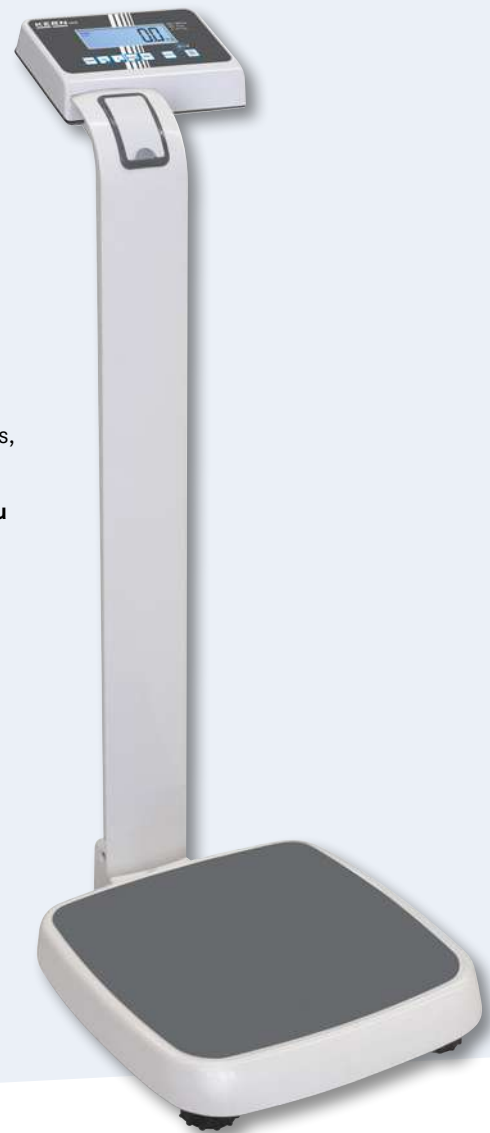
For years an established name in hospitals, doctors' surgeries, rehabilitation clinics and nursing homes.

Wherever reliable quality is important, look no further than the complete KERN range of medical scales, from baby scales, to personal scales, chair scales, obesity scales through to hand dynamometers.

**KERN 2020 catalogue for medical balances and devices – this is where you will find everything for day-to-day tasks in the medical environment!**



*Hendrik Neff, product specialist  
Medical scales*



## Counting scales/Counting systems

### Interesting facts about density determination

#### Smallest part weight when counting

Smallest piece the scale will accept for piece counting and piece count display. In practice, depending on the required accuracy, we recommend to choose a counting scale with a minimum piece weight smaller than the weight of the item to be counted. To make it easier for you to select the right model, we give the smallest part weight when counting under laboratory conditions and normal conditions, see the website.

#### ► Counting resolution

Describes the maximum quantity which can be counted with a counting accuracy of 1 %, with a minimum variation of item weights and a sufficiently large ► **reference quantity** (20 pieces with counting resolution  $\leq 60,000$  points, 50 pieces from 60,000–150,000 points, 100 pieces  $\geq 150,000$  points). This therefore is an indication of the quality of the counting scale.

#### Recommended ► reference quantity

Weight tolerances of pieces to be counted are the most significant sources of error when counting. Therefore, at the start of every counting procedure, establish an average weight, the so-called ► **reference weight**, by placing several pieces on the balance, the so-called reference quantity. Usually this would be:

- 5 pieces >> often sufficient
- 10 pieces >> common practise
- 20–100 pieces >> for large deviations among piece weights

The “automatic ► **reference optimisation**” function increases the reference quantity gradually, whereby the average piece weight is optimised step by step. This contributes considerably to the accuracy of the subsequent counting processes.

### Which counting scale for which application?

#### Simple counting scale

with self-explanatory user guidance on the keyboard. The graphic control panel enables you to start working immediately, without having to consult the user manual. Easy handling, value for money.

#### Professional counting scale

with 3 separate displays for reference weight (average weight of the pieces), total weight of all pieces and total quantity of all pieces. Very useful integrated memories, e.g. for container weight, item number, reference weight as well as audible and visual counting aids and an alphanumeric key pad for easy data entry.

#### Special tip for counting large quantities: Counting systems

The weighing capacities of bench counting scales are often not sufficient to count large quantities, units, palletized items, etc. Here high-performance counting systems come into operation, as these combine a high-precision reference scale with a high-capacity bulk scale.

► See the glossary on page 223–225

#### Bettina Schwedt

Product specialist Counting scales

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- ▷ High-resolution counting system with EC type approval [M]
- ▷ Ergonomic display device with large keypad
- ▷ Three displays for weight display (verifiable), reference weight, total pieces
- ▷ 100 item memories for master data such as reference weight, reference quantity, container weight (PRE-TARE) etc.

from €

**890,-**



**HIGHLIGHT**

# Quick-Finder Counting scales/Counting systems

Readability [d] g	Weighing capacity [Max] kg	Counting resolution Points	Model  KERN	Price excl. of VAT ex works €	Page								For an explanation on the pictos, see front flap		
0,001	0,3	60.000	CFS 300-3	365,-	84	1									
0,001	0,36	360.000	CKE 360-3	310,-	85	1									
0,001	6	1.200.000	CCS 6K-6	630,-	88	2									
0,001	15	3.000.000	CCS 10K-6	660,-	88	2									
0,01	2	200.000	CKE 2000-2	330,-	85	1									
0,01	3	60.000	CFS 3K-5	310,-	84	1									
0,01	3   6	360.000	CKE 3600-2	350,-	85	1									
0,01	3   6	600.000	CCA 6K-5M	890,-	90	2									
0,01	6   15	600.000	CCA 10K-5M	890,-	90	2									
0,01	15   30	1.500.000	CCA 30K-5M	960,-	90	2									
0,01	30	600.000	CCS 30K0.01.	540,-	88	2									
0,01	30   60	3.000.000	CCA 60K-5M	960,-	90	2									
0,01	60	1.200.000	CCS 60K0.01.	540,-	88	2									
0,01	60	1.200.000	CCS 60K0.01L.	620,-	88	2									
0,01	60   150	15.000.000	CCA 100K-5M	1070,-	90	2									
0,01	150	3.000.000	CCS 150K0.01	650,-	88	2									
0,01	150	3.000.000	CCS 150K0.01L	860,-	88	2									
0,01	150   300	30.000.000	CCA 300K-5M	1250,-	90	2*									
0,01	300	6.000.000	CCS 300K0.01	860,-	88	2*									
0,01	600	12.000.000	CCS 600K-2U	1490,-	88	2*									
0,01	600	12.000.000	CCS 600K-2	1540,-	88	2*									
0,01	600	12.000.000	CCS 600K-2L	1950,-	88	2*									
0,02	4	200.000	CDS 4K0.02	560,-	87	1									
0,02	6	300.000	CKE 6K0.02	490,-	85	1									
0,05	8	160.000	CKE 8K0.05	470,-	85	1									
0,05	15	300.000	CDS 15K0.05	490,-	87	1									
0,05	16	320.000	CKE 16K0.05	570,-	85	1									
0,1	6	60.000	CPB 6K0.1N	225,-	82	1									
0,1	6	60.000	CFS 6K0.1	270,-	84	1									
0,1	16	160.000	CKE 16K0.1	460,-	85	1									
0,1	16	160.000	CDS 16K0.1	470,-	87	1									
0,1	30	300.000	CDS 30K0.1	560,-	87	1									
0,1	30	300.000	CDS 30K0.1L	720,-	87	1									
0,1	30	300.000	CCS 30K0.1.	490,-	88	2									
0,1	36	360.000	CKE 36K0.1	520,-	85	1									
0,1	60	600.000	CCS 60K0.1.	495,-	88	2									
0,1	60	600.000	CCS 60K0.1L.	570,-	88	2									
0,1	150	1.500.000	CCS 150K0.1.	540,-	88	2									
0,1	150	1.500.000	CCS 150K0.1L	820,-	88	2									
0,1	300	3.000.000	CCS 300K0.1	790,-	88	2*									
0,1	300   600	6.000.000	CCS 600K-1S	1400,-	88	2*									
0,1	300   600	6.000.000	CCS 600K-1	1650,-	88	2*									
0,1	600   1500	15.000.000	CCS 1T-4S	1400,-	88	2*									
0,1	600   1500	15.000.000	CCS 1T-4	1650,-	88	2*									
0,1	1500   3000	30.000.000	CCS 3T-3	1650,-	88	2*									
0,1	1500   3000	30.000.000	CCS 3T-3L	1850,-	88	2*									
0,1	1500	15.000.000	CCS 1T-1U	1430,-	88	2*									
0,1	1500	15.000.000	CCS 1T-1L	1880,-	88	5*									
0,1	3000	30.000.000	CCS 3T-1	1890,-	88	5*									
0,1   0,2	3   6	60.000	IFS 6K-4S	390,-	85	1									
0,1   0,2	6   15	75.000	IFS 10K-4	405,-	85	1									
0,2	3	30.000	CXB 3K0.2	230,-	83	1									
0,2	15	60.000	CPB 15K0.2N	225,-	82	1									
0,2	15	75.000	CFS 15K0.2	270,-	84	1									
0,2	36	180.000	CDS 36K0.2L	710,-	87	1									
0,2	60	300.000	CDS 60K0.2	720,-	87	1									
0,2	65	325.000	CKE 65K0.2	520,-	85	1									
0,2   0,5	12   30	60.000	IFS 30K0.2DL	450,-	85	1									
0,5	6	30.000	CXB 6K0.5	230,-	83	1									
0,5	30	60.000	CPB 30K0.5N	225,-	82	1									
0,5	30	60.000	CFS 30K0.5	270,-	84	1									
0,5	65	130.000	CKE 65K0.5	480,-	85	1									
0,5   1	30   60	60.000	IFS 60K0.5D	450,-	85	1									
0,5   1	30   60	60.000	IFS 60K0.5DL	550,-	85	1									
1	3	30.000	CXB 3K1NM	245,-	83	1									
1	15	30.000	CXB 15K1	230,-	83	1									
1	50	50.000	CFS 50K-3	295,-	84	1									
1   2	3   6	60.000	CPB 6K1DM	225,-	82	1									
1   2	3   6	60.000	IFS 6K-3SM	350,-	85	1									
1   2	75   150	60.000	IFS 100K-3	630,-	85	1									
1   2	75   150	60.000	IFS 100K-3L	790,-	85	1									








■ News 2020

\* Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

● = standard ○ = option



# Quick-Finder Counting scales/Counting systems

Readability [d] g	Weighing capacity [Max] kg	Counting resolution Points	Model  KERN	Price excl. of VAT ex works €	Page							
2	6	30.000	<b>CXB 6K2NM</b>	<b>245,-</b>	83	1	○	●				●
2	30	30.000	<b>CXB 30K2</b>	<b>230,-</b>	83	1		●				●
2   5	6   15	60.000	<b>CPB 15K2DM</b>	<b>225,-</b>	82	1	○	●		●		○
2   5	6   15	75.000	<b>IFS 10K-3M</b>	<b>410,-</b>	85	1	○	●	●	●		○
2   5	6   15	75.000	<b>IFS 10K-3LM</b>	<b>460,-</b>	85	1	○	●	●	●		○
2   5	150   300	60.000	<b>IFS 300K-3</b>	<b>790,-</b>	85	1		●	●	●		○
5	15	30.000	<b>CXB 15K5NM</b>	<b>245,-</b>	83	1	○	●				●
5   10	15   30	60.000	<b>CPB 30K5DM</b>	<b>225,-</b>	82	1	○	●		●		○
5   10	15   30	60.000	<b>IFS 30K-3M</b>	<b>460,-</b>	85	1	○	●	●	●		○
10	30	30.000	<b>CXB 30K10NM</b>	<b>245,-</b>	83	1	○	●				●
10   20	30   60	60.000	<b>IFS 60K-2M</b>	<b>460,-</b>	85	1	○	●	●	●		○
10   20	30   60	60.000	<b>IFS 60K-2LM</b>	<b>550,-</b>	85	1	○	●	●	●		○
20   50	60   150	60.000	<b>IFS 100K-2M</b>	<b>550,-</b>	85	1	○	●	●	●		○
20   50	60   150	60.000	<b>IFS 100K-2LM</b>	<b>720,-</b>	85	1	○	●	●	●		○
50   100	150   300	60.000	<b>IFS 300K-2M</b>	<b>720,-</b>	85	1	○	●	●	●		○

News 2020

\* Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

● = standard ○ = option



**Note:** Official verification duty for commercial trade

Professional model, also with EC type approval [M], counting resolution up to 60,000 points

**Features**

- **Precise counting:** The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- **Programmable using numerical key pad:**
  - required reference quantity
  - known reference weight
- **Three displays** for weight display (verifiable), reference weight, total pieces
- **Counting results memory:** adds up all individual piece counts, result is shown in total weight and total pieces
- **Fill-to-target function:** Target count or target weight can be programmed. A signal will be displayed when the target value is reached
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels

- **High mobility:** thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- **Two balances in one:** Changes from counting mode to weighing mode at the touch of a key
- **Protective working cover** included with delivery

**Technical data**

- Large backlit LCD displays, digit height 20 mm
- Dimensions weighing surface, stainless steel, WxD 295x225 mm
- Overall dimensions WxDxH 315x350x105 mm
- Net weight approx. 3,2 kg
- Permissible ambient temperature 0 °C/40 °C

**Accessories**

- **Protective working cover**, scope of delivery: 5 items, KERN CFS-A02S05, € 40,-
- **Rechargeable battery pack internal**, operating time up to 90 h without backlight, charging time approx. 12 h, KERN GAB-A04, € 40,-
- **Signal lamp** for visual support of weighing with tolerance range, KERN CFS-A03, € 250,-
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, € 35,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD										OPTION		FACTORY	
												CPB-DM	

Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Smallest part weight [Normal] g/piece	Counting resolution Points	Price excl. of VAT ex works €	Option			
								Verification		DAkKS Calibr. Certificate	
KERN									€	DAkKS KERN	€
CPB 6K0.1N	6	0,1	-	-	1	60.000	225,-	-	-	963-128	88,-
CPB 15K0.2N	15	0,2	-	-	2,5	60.000	225,-	-	-	963-128	88,-
CPB 30K0.5N	30	0,5	-	-	5	60.000	225,-	-	-	963-128	88,-
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readability [d]											
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.											
Verification at the factory, we need to know the full address of the location of use.											
CPB 6K1DM	3   6	1   2	1   2	20	1	60.000	225,-	965-228	70,-	963-128	88,-
CPB 15K2DM	6   15	2   5	2   5	40	2,5	60.000	225,-	965-228	70,-	963-128	88,-
CPB 30K5DM	15   30	5   10	5   10	100	5	60.000	225,-	965-228	70,-	963-128	88,-



**Note:** Official verification duty for commercial trade

Entry level model into professional counting, also with EC type approval [M], counting resolution of 30,000 points

**Features**

- **Precise counting:** The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- **Programmable using numerical key pad:**
  - required reference quantity
  - known reference weight
- **Three displays** for weight display (verifiable), reference weight, total pieces
- **Fill-to-target function:** Target count or target weight can be programmed. A signal will be displayed when the target value is reached
- 10 memories for reference weights
- **Counting results memory:** adds up all individual piece counts, result is shown in total weight and total pieces
- **Integrated ESD protection,** therefore suitable for weighing small plastic parts

- **Energy management:** Backlight turns off after 5 s
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **Two balances in one:** Changes from counting mode to weighing mode at the touch of a key
- **Protective working cover** included with delivery
- **Internal rechargeable battery pack** included with delivery

**Technical data**

- Large backlit LCD displays, digit height 18 mm
- Dimensions weighing surface, stainless steel, WxD 300x225 mm
- Dimensions housing WxDxH, 300x330x110 mm
- Rechargeable battery pack internal, operating time up to 200 h without backlight, charging time approx. 8 h
- Permissible ambient temperature -10 °C/40 °C

**Accessories**

- **Protective working cover,** scope of delivery: 5 items, KERN CXB-A01S05, € 40,-
- **Rechargeable battery pack internal,** operating time up to 200 h without backlight, charging time approx. 8 h, KERN GAB-A04, € 40,-

STANDARD

CAL EXT	PCS	SUM	ACCU	230 V	DMS	1 DAY

OPTION      FACTORY

DAKKS	M
+3 DAYS	+3 DAYS
	CXB-NM

Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Smallest part weight [Normal] g/piece	Counting resolution Points	Net weight approx. kg	Price excl. of VAT ex works €	Option			
									Verification		DAkkS Calibr. Certificate	
										KERN	€	DAkkS KERN
KERN CXB 3K0.2	3	0,2	-	-	1	30.000	4,0	230,-	-	-	963-127	72,-
KERN CXB 6K0.5	6	0,5	-	-	2	30.000	4,0	230,-	-	-	963-128	88,-
KERN CXB 15K1	15	1	-	-	5	30.000	4,0	230,-	-	-	963-128	88,-
KERN CXB 30K2	30	2	-	-	10	30.000	4,2	230,-	-	-	963-128	88,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.												
KERN CXB 3K1NM	3	1	1	20	1	30.000	4,0	245,-	965-227	55,-	963-127	72,-
KERN CXB 6K2NM	6	2	2	40	2	30.000	4,2	245,-	965-228	70,-	963-128	88,-
KERN CXB 15K5NM	15	5	5	100	5	30.000	4,0	245,-	965-228	70,-	963-128	88,-
KERN CXB 30K10NM	30	10	10	200	10	30.000	4,2	245,-	965-228	70,-	963-128	88,-



Professional, high-resolution counting scale with 100 item memories and second balance interface, counting resolution up to 75,000 points

**Features**

- **Memory (PLU)** for 100 items with additional text, reference weight and tare weight, e.g. of a container
- **Precise counting:** The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- **Programmable using numerical key pad:**
  - required reference quantity
  - known reference weight
- **Three displays** for weight display (verifiable), reference weight, total pieces
- **Weighing with tolerance range (check-weighing):** a visual and audible signal helps with portioning, dispensing or grading
- **Fill-to-target function**  
Programmable target quantity or target weight. A signal will be displayed when the target value is reached
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels

- **Second balance interface** to construct a high-resolution counting system, standard, e.g. with weighing bridges of KERN KFP V20
- **Protective working cover** included with delivery, for models with weighing plate size **A**, **B**

**Technical data**

- Large backlit LCD displays, digit height 20 mm
- Dimensions weighing surface
  - A** Ø 80 mm
  - B** WxD 295x225 mm
  - C** WxD 295x225 mm
- Overall dimensions WxDxH
  - A** 315x350x180 mm (incl. draught shield)
  - B** 315x350x110 mm
  - C** 365x250x125 mm
- Permissible ambient temperature 0 °C/40 °C

**Accessories**

- **Protective working cover**, standard for models with weighing plate size **A**, **B**, scope of delivery: 5 items, KERN CFS-A02S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 70 h without backlight, charging time approx. 14 h, KERN GAB-A04, **€ 40,-**
- **Signal lamp** for visual support of weighing with tolerance range, KERN CFS-A03, **€ 250,-**
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, **€ 35,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD      OPTION      FACTORY

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Model	Weighing capacity [Max] kg	Readability [d] g	Smallest part weight [Normal] g/piece	Counting resolution Points	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option	
								DAKKS KERN	Calibr. Certificate €
<b>CFS 300-3</b>	0,3	0,001	0,05	60.000	2,6	<b>A</b>	<b>365,-</b>	963-127	72,-
<b>CFS 3K-5</b>	3	0,01	0,5	60.000	3,4	<b>B</b>	<b>310,-</b>	963-127	72,-
<b>CFS 6K0.1</b>	6	0,1	1	60.000	3,2	<b>B</b>	<b>270,-</b>	963-128	88,-
<b>CFS 15K0.2</b>	15	0,2	2	75.000	3,4	<b>B</b>	<b>270,-</b>	963-128	88,-
<b>CFS 30K0.5</b>	30	0,5	5	60.000	3,4	<b>B</b>	<b>270,-</b>	963-128	88,-
<b>CFS 50K-3</b>	50	1	10	50.000	4,4	<b>C</b>	<b>295,-</b>	963-128	88,-



Easy to use, self-explanatory counting scale with laboratory accuracy, counting resolution up to 360,000 points

**Features**

- **Self-explanatory graphic control panel**, the workings steps can be understood immediately, even without operating instructions
  - no learning time = reduces costs
  - ideal for untrained users
  - visualised process avoids operating errors
- The 4 steps are carried out from left to right:
  - 1 Place the empty container onto the weighing plate and tare by pressing the TARE key
  - 2 Place the reference quantity for the goods to be counted into the container (5, 10 or 20 pieces)
  - 3 Confirm the selected reference quantity by pressing the key (5, 10 or 20)
  - 4 Pour in the goods to be counted. The number of pieces will immediately be shown in the display

- **Precise counting:** The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- **Two balances in one:** Changes from counting mode to weighing mode at the touch of a key
- **Protective working cover** included with delivery

**Technical data**

- Large backlit display
  - A, B digit height 9 mm
  - C digit height 25 mm
- Dimensions weighing surface
  - A ø 81 mm, plastic
  - B WxD 150x170 mm, stainless steel
  - C 6 340x240 mm, stainless steel

- Overall dimensions WxDxH
  - A, B 167x250x85 mm
  - C 350x390x120 mm
- Optional battery operation, 6x1.5 V Size C not included in scope of delivery, operating time up to 40 h, for models with weighing plate size C
- Permissible ambient temperature 10 °C/40 °C

**Accessories**

- **Protective working cover**, scope of delivery: 5 items, for models with weighing plate size
  - A KERN PCB-A02S05, € 40,-
  - B KERN PCB-A05S05, € 40,-
  - C KERN FKB-A02S05, € 40,-
- **Rechargeable battery pack external**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01, € 160,-
- **Internal rechargeable battery pack**, operating time up to 30 h without backlight, charging time approx. 10 h, for models with weighing plate size A, B, KERN KB-A01N, € 50,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

CAL EXT    RS 232    PCS    UNDER    BATT    MULTI    DMS    1 DAY

OPTION

ACCU    DAKKS +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Smallest part weight [Normal] g/piece	Counting resolution Points	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option	
								DAkKS KERN	DAkKS Calibr. Certificate €
KERN CKE 360-3	0,36	0,001	0,01	360.000	1	A	290,- ↓	963-127	72,-
KERN CKE 2000-2	2	0,01	0,1	200.000	1,8	B	330,- ↓	963-127	72,-
KERN CKE 3600-2	3,6	0,01	0,1	360.000	1,8	B	350,- ↓	963-127	72,-
KERN CKE 6K0.02	6	0,02	0,2	300.000	7	C	490,- ↓	963-128	88,-
KERN CKE 8K0.05	8	0,05	0,5	160.000	7	C	470,- ↓	963-128	88,-
KERN CKE 16K0.05	16	0,05	0,5	320.000	7	C	570,- ↓	963-128	88,-
KERN CKE 16K0.1	16	0,1	1	160.000	7	C	460,- ↓	963-128	88,-
KERN CKE 36K0.1	36	0,1	1	360.000	7	C	520,- ↓	963-128	88,-
KERN CKE 65K0.2	65	0,2	2	325.000	7	C	520,- ↓	963-129	105,-
KERN CKE 65K0.5	65	0,5	5	130.000	7	C	480,- ↓	963-129	105,-

↓ Price reduction



## Industrial counting scale with convenient decimal keypad for easy data entry – now also with EC type approval [M], counting resolution up to 75000 points

### Features

- **Tough industry standard** suitable for use in harsh industrial applications
- **Ergonomic display device** with large keypad and high-contrast LCD display for easy entry and reading of, e.g., tare weights, reference weights, limit values etc.
- **Three displays** for weight display (verifiable), reference weight, total pieces
- **100 item memories** for master data such as reference weight, reference quantity, container weight (PRE-TARE) etc.
- Printout of date and time for GLP and GMP compliant data logging

- **Precise counting:** The manual reference weight optimisation gradually improves the average value of the piece weight
- **Totalising** of pieces when counting
- **Protective working cover** included with delivery

### Technical data

- Large backlit LCD displays, digit height 16,5 mm
- Dimensions weighing surface, stainless steel
  - A 230×230×110 mm
  - B 300×240×110 mm
  - C 400×300×120 mm
  - D 500×400×140 mm
  - E 650×500×140 mm

- Dimensions of display device W×D×H 260×150×65 mm
- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C

### Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN KFB-A02S05, € 40,-
- **Stand** to elevate display device, Height of stand approx. 330 mm, KERN IFB-A01, € 50,- Column height approx. 600 mm, for models with weighing plate size **D**, **E**, KERN IFB-A02, € 60,-
- **Rechargeable battery pack internal**, operating time up to 40 h, without backlight, charging time approx. 12 h, must be ordered at purchase, KERN KFB-A01, € 35,-
- **ESD drain** to protect against electrostatic discharge e.g. for electrostatically-charged weighing objects or people who work with the scale, KERN YGR-01, € 55,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

### STANDARD



### OPTION



### FACTORY



Model KERN	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Smallest part weight [Normal] g/piece	Counting resolution Points	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option					
									Verification		DAkkS Calibr. Certificate			
									M IFS-M	€	DAkkS KERN	€		
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readability [d]														
IFS 6K-4S	3   6	0,1   0,2	-	1	60.000	4,6	A	390,-	-	-	963-128	88,-		
IFS 10K-4	6   15	0,1   0,2	-	2	75.000	6	B	405,-	-	-	963-128	88,-		
IFS 30K0.2DL	12   30	0,2   0,5	-	5	60.000	11	C	450,-	-	-	963-128	88,-		
IFS 60K0.5D	30   60	0,5   1	-	10	60.000	10	C	450,-	-	-	963-129	105,-		
IFS 60K0.5DL	30   60	0,5   1	-	10	60.000	12	D	550,-	-	-	963-129	105,-		
IFS 100K-3	75   150	1   2	-	25	60.000	12	D	630,-	-	-	963-129	105,-		
IFS 100K-3L	75   150	1   2	-	25	60.000	20	E	790,-	-	-	963-129	105,-		
IFS 300K-3	150   300	2   5	-	50	60.000	22	E	790,-	-	-	963-129	105,-		

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.

Verification at the factory, we need to know the full address of the location of use.

IFS 6K-3SM	3   6	1   2	1   2	1	60.000	6	A	350,-	965-228	70,-	963-128	88,-
IFS 6K-3M	3   6	1   2	1   2	1	60.000	6	B	410,-	965-228	70,-	963-128	88,-
IFS 10K-3M	6   15	2   5	2   5	2	75.000	6	B	410,-	965-228	70,-	963-128	88,-
IFS 10K-3LM	6   15	2   5	2   5	2	75.000	10	C	460,-	965-228	70,-	963-128	88,-
IFS 30K-3M	15   30	5   10	5   10	5	60.000	10	C	460,-	965-228	70,-	963-128	88,-
IFS 60K-2M	30   60	10   20	10   20	10	60.000	11	C	460,-	965-229	93,-	963-129	105,-
IFS 60K-2LM	30   60	10   20	10   20	10	60.000	13	D	550,-	965-229	93,-	963-129	105,-
IFS 100K-2M	60   150	20   50	20   50	25	60.000	12	D	550,-	965-229	93,-	963-129	105,-
IFS 100K-2LM	60   150	20   50	20   50	25	60.000	22	E	720,-	965-229	93,-	963-129	105,-
IFS 300K-2M	150   300	50   100	50   100	50	60.000	22	E	720,-	965-229	93,-	963-129	105,-



Easy to use industrial counting scale for heavy loads, counting resolution up to 300,000 points

**Features**

- **Self-explanatory graphic control panel**, the workings steps can be understood immediately, even without operating instructions
  - no learning time = reduces costs
  - ideal for untrained users
  - visualised process avoids operating errors
- The 4 steps are carried out from left to right:
  - 1 Place the empty container onto the weighing plate and tare by pressing the TARE key
  - 2 Place the reference quantity for the goods to be counted into the container (5, 10 or 20 pieces)
  - 3 Confirm the selected reference quantity by pressing the key (5, 10 or 20)
  - 4 Pour in the goods to be counted. The number of pieces will immediately be shown in the display
- **Precise counting:** The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- **Protective working cover** included with delivery

**Technical data**

- Backlit LCD display, digit height 18 mm
- Dimensions weighing surface, stainless steel
  - A WxD 228x228 mm
  - B WxD 308x318 mm
  - C WxD 450x350 mm
- Dimensions of display device WxDxH 225x115x60 mm
- Permissible ambient temperature 10 °C/40 °C

**Accessories**

- **Protective working cover** over the display device, scope of delivery: 5 items, KERN DE-A12S05, € 40,-
- **Mount to fasten the display device** to the platform, KERN DE-A11N, € 35,-
- **Stand** to elevate display device, height of stand approx. 480 mm, can be reordered, KERN DE-A10, € 100,-
- **Rechargeable battery pack external**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01, € 160,-
- **Rechargeable battery pack internal**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KB-A01N, € 50,-
- **Set for underfloor weighing**, consists of platform, bow, hook, only for models with weighing plate B, KERN DS-A01, € 200,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD						OPTION		
						B		

Model	Weighing capacity [Max] kg	Readability [d] g	Smallest part weight [Normal] g/piece	Counting resolution Points	Net weight approx. kg	Cable length approx. m	Weighing plate	Price excl. of VAT ex works €	Option	
									DAkkS KERN	€
<b>CDS 4K0.02</b>	4	0,02	0,2	200.000	6	2	A	560,-	963-127	72,-
<b>CDS 15K0.05</b>	15	0,05	0,5	300.000	8	2	B	490,-	963-128	88,-
<b>CDS 16K0.1</b>	16	0,1	1	160.000	8	2	B	470,-	963-128	88,-
<b>CDS 30K0.1</b>	30	0,1	1	300.000	8	2	B	560,-	963-128	88,-
<b>CDS 30K0.1L</b>	30	0,1	1	300.000	10	0,6	C	720,-	963-128	88,-
<b>CDS 36K0.2L</b>	36	0,2	2	180.000	10	0,6	C	710,-	963-128	88,-
<b>CDS 60K0.2</b>	60	0,2	2	300.000	10	0,6	C	720,-	963-129	105,-



08

## Counting system to count the smallest parts in the largest quantities, counting resolution up to 999,999 points

### Features

- The highly accurate KERN CCS counting system can replace a whole range of individual balances, efficiently and at a reasonable price

### Reference scale KERN CFS

This professional counting scale, which can also be used as a stand-alone scale, meets the highest demands for accuracy, weighing capacity and volume of items, by being connected to a high-capacity weighing bridge

- **Programmable using numerical key pad:**
  - required reference quantity
  - known reference weight
- **Three displays** for weight display reference weight, total pieces
- **Memory (PLU)** for 100 items with additional text, reference weight and tare weight, e.g. of a container
- **Fill-to-target function:** Target count or target weight can be programmed. A signal will be displayed when the target value is reached
- **Precise counting:** The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- **Protective working cover** included with delivery

### Quantity scale KERN KFP-V20 IP65, KFP-V20 IP67, KFU-V20

- The high-accuracy quantity counting takes place on the weighing platform (= weighing bridge) KERN CCS. In this way even the smallest of parts can be counted in large volumes
- **Weighing plate stainless steel**, painted steel base, for models with weighing plate size **A - E**
- **Aluminium Single-Point load cell** (1×3000 e), protection against dust and water splashes IP65

### Technical data

#### Reference scale KERN CFS

- Overall dimensions W×D×H 320×350×180 mm
- Dimensions weighing surface, stainless steel
  - I** CFS 300-3:  $\varnothing$  80 mm
  - CFS 3K-5, CFS 6K0.1: W×D 300×225 mm
- Net weight approx. 2,6 kg

#### Quantity platform KERN KFP-V20 IP65

- Weighing plate dimensions W×D×H, stainless steel
  - A** 230×230×110 mm
  - B** 300×240×110 mm
  - C** 400×300×125 mm
  - D** 500×400×137 mm
  - E** 650×500×135 mm

#### Quantity weighing bridge KERN KFP-V20 IP67

- Weighing plate dimensions W×D×H, Lacquered steel
  - F** 1500×1250×80 mm

#### Quantity pallet scale KERN KFU-V20

- Weighing plate dimensions W×D×H, Lacquered steel
  - G** 840×1300×90 mm

#### Quantity platform KERN KIP-V20M

- Weighing plate dimensions W×D×H, Lacquered steel
  - H** 1000×1000×108 mm
  - I** 1500×1200×108 mm
  - J** 1500×1500×108 mm

- Connection cable approx.

- A - E** 2,5 m
- F - J** 5 m



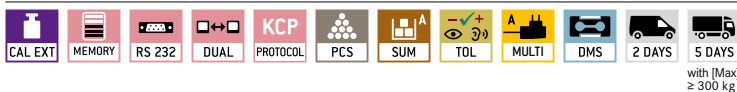


**Accessories**

- **2 KERN CFS: Protective working cover**, scope of delivery: 5 items, KERN CFS-A02S05, **€ 40,-**
- **3 Rechargeable battery pack internal**, operating time up to 60 h without backlight, charging time approx. 12 h, KERN GAB-A04, **€ 40,-**
- **4 Signal lamp** for visual support of weighing with tolerance range, **Signal lamp** for visual support of weighing with tolerance range, KERN CFS-A03, **€ 250,-**
- **5 Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, **€ 35,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

**I** Information on other high-capacity bulk balances, such as, for example, pallet scales, drive-through scales or floor scales is available on request, for information on other counting systems with the KERN CFS reference balance (d = 0.1 g), please refer to the website

STANDARD



OPTION



Model	Weighing capacity Quantity scale [Max] kg	Readability Quantity scale [d] g	Weighing plate	Weighing capacity Reference scale [Max] g	Readability Reference scale [d] g	Counting resolution Points	Smallest part weight [Normal] g/piece	Price excl. of VAT ex works €	Option	
									DAkKS KERN	Certificate €
KERN										
CCS 6K-6	6	0,2	A	300	0,001	1.200.000	0,05	630,-	962-128-127	145,-
CCS 10K-6	15	0,5	B	300	0,001	3.000.000	0,05	660,-	962-128-127	145,-
CCS 30K0.01	30	1	C	3000	0,01	600.000	0,5	540,-	962-128-127	145,-
CCS 30K0.1	30	1	C	6000	0,1	300.000	1	490,-	962-128-128	175,-
CCS 60K0.01	60	2	C	3000	0,01	1.200.000	0,5	540,-	962-129-127	160,-
CCS 60K0.01L	60	2	D	3000	0,01	1.200.000	0,5	620,-	962-129-127	160,-
CCS 60K0.1	60	2	C	6000	0,1	600.000	1	495,-	962-129-128	175,-
CCS 60K0.1L	60	2	D	6000	0,1	600.000	1	570,-	962-129-128	175,-
CCS 150K0.01	150	5	D	3000	0,01	3.000.000	0,5	650,-	962-129-127	160,-
CCS 150K0.01L	150	5	E	3000	0,01	3.000.000	0,5	860,-	962-129-127	160,-
CCS 150K0.1	150	5	D	6000	0,1	1.500.000	1	540,-	962-129-128	175,-
CCS 150K0.1L	150	5	E	6000	0,1	1.500.000	1	820,-	962-129-128	175,-
CCS 300K0.01	300	10	E	3000	0,01	6.000.000	0,5	860,-	962-129-127	160,-
CCS 300K0.1	300	10	E	6000	0,1	3.000.000	1	790,-	962-129-128	175,-
CCS 600K-2U	600	200	G	3000	0,01	12.000.000	0,5	1490,-	962-130-127	237,-
CCS 1T-1L	1500	500	F	6000	0,1	15.000.000	1	1880,-	962-130-128	253,-
CCS 1T-1U	1500	500	G	6000	0,1	15.000.000	1	1430,-	962-130-128	253,-
CCS 3T-1	3000	1000	F	6000	0,1	30.000.000	1	1890,-	962-132-128	528,-
CCS 600K-1S	300 600	0,1 0,2	H	6000	0,1	6.000.000	1	1400,-	962-130-127	237,-
CCS 600K-1	300 600	0,1 0,2	I	6000	0,1	6.000.000	1	1650,-	962-130-127	237,-
CCS 1T-4S	600 1500	0,2 0,5	I	6000	0,1	15.000.000	1	1400,-	962-130-128	253,-
CCS 1T-4	600 1500	0,2 0,5	I	6000	0,1	15.000.000	1	1650,-	962-130-128	253,-
CCS 3T-3	1500 3000	0,5 1	I	6000	0,1	30.000.000	1	1650,-	962-132-128	528,-
CCS 3T-3L	1500 3000	0,5 1	J	6000	0,1	30.000.000	1	1850,-	962-132-128	528,-

**NEW** New model

NEW



High-resolution counting system with EC type approval [M] to count the smallest parts in the largest quantities, counting resolution up to 300.000.000 points

**Features**

- The highly accurate KERN CCS counting system can replace a whole range of individual balances, efficiently and at a reasonable price
- Thanks to EC type approval [M], it is also suitable for use in verified applications
- The balances are connected to one another with an RS-232 Y-cable (KERN CCA-A01, included with delivery), which also allows you to connect a printer

**Reference scale KERN EWJ**

- This precision balance, which can be used as an individual balance, also fulfils the highest demands through connection with a high-capacity weighing bridge
- **Easy to use:** All primary functions have their own key on the keypad
- **Automatic internal adjustment,** time-controlled every 2 h, guarantees high degree of accuracy and makes the balance independent of its location
- Draught shield standard, weighing space W×D×H 134×128×80 mm
- **Protective working cover** included with delivery

**Quantity scale KERN IFS**

- The high-accuracy quantity counting takes place on the weighing platform (= weighing bridge) KERN CCA. In this way even the smallest of parts can be counted in large volumes
- **Tough industry standard** suitable for use in harsh industrial applications
- **Tough industry standard** suitable for use in harsh industrial applications
- **Ergonomic display device** with large keypad and high-contrast LCD display for easy entry and reading of, e.g., tare weights, reference weights, limit values etc.
- **Three displays** for weight display (verifiable), reference weight, total pieces
- **100 item memories** for master data such as reference weight, reference quantity, container weight (PRE-TARE) etc.
- Printout of date and time for GLP and GMP compliant data logging
- **Precise counting:** The manual reference weight optimisation gradually improves the average value of the piece weight
- **Totalising** of pieces when counting
- **Aluminium Single-Point load cell** (1×3000 e), protection against dust and water splashes IP65

- **Protective working cover** included with delivery

**Technical data**

**Reference scale KERN EWJ**

- Overall dimensions (incl. draught shield) W×D×H 220×340×321 mm
- Dimensions weighing surface, stainless steel ø 120 mm
- Net weight approx. 3,2 kg
- Connection cable approx. 1,5 m

**Quantity scale KERN IFS**

- Weighing plate dimensions W×D×H, stainless steel
  - A 300×240×110 mm
  - B 400×300×120 mm, see larger picture
  - C 500×400×140 mm
  - D 650×500×140 mm

**Accessories**

- **Signal lamp** for visual support of weighing with tolerance range, KERN CFS-A03, € 250,-
- **RS-232/WiFi adapter** for wireless connection to networks and WiFi capable devices, such as tablets, laptops or smartphones, KERN YKI-03, € 690,-
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, € 290,-

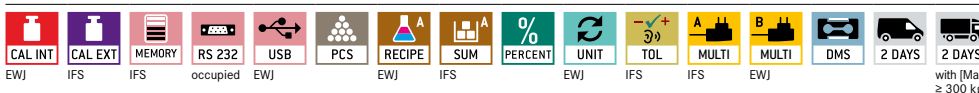
**Reference scale KERN EWJ**

- **Protective working cover,** scope of delivery: 5 items, KERN EWJ-A04S05, € 40,-
- **Rechargeable battery pack internal,** operating time up to 15 h without backlight, charging time approx. 4 h, KERN KFB-A01, € 35,-

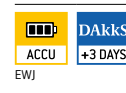
**Quantity scale KERN IFS**

- **Protective working cover,** scope of delivery: 5 items, KERN KFB-A02S05, € 40,-
- **Rechargeable battery pack internal,** operating time up to 40 h, without backlight, charging time approx. 12 h, must be ordered at purchase, KERN KFB-A01, € 35,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

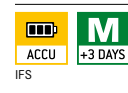
STANDARD



OPTION



FACTORY




Model	Weighing capacity Quantity scale [Max] kg	Readability Quantity scale [d] g	Weighing plate	Weighing capacity Reference scale [Max] g	Readability Reference scale [d] g	Counting resolution Points	Smallest part weight [Normal] g/piece	Price excl. of VAT ex works €	Option	
									Verification	
KERN								M KERN	€	
CCA 6K-5M	3   6	1   2	A	600	0,01	6.000.000	0,2	890,-	965-228-216	121,-
CCA 10K-5M	6   15	2   5	A	600	0,01	15.000.000	0,2	890,-	965-228-216	121,-
CCA 30K-5M	15   30	5   10	B	600	0,01	30.000.000	0,2	960,-	965-228-216	121,-
CCA 60K-5M	30   60	10   20	B	600	0,01	60.000.000	0,2	960,-	965-229-216	159,-
CCA 100K-5M	60   150	20   50	C	600	0,01	150.000.000	0,2	1070,-	965-229-216	159,-
CCA 300K-5M	150   300	50   100	C	600	0,01	300.000.000	0,2	1250,-	965-229-216	159,-



## Parcel scales/Platform scales

Here you'll find a complete summary of the KERN platform scales series and their positioning within the platform scales segment on the basis of application, price-performance ratio and functional volume



### Precision platform scales

	★★★★
	★★★
 <b>DS</b>	★






### STAINLESS STEEL PLATFORM SCALES

	★★★★
▶ Page 72  ▶ Page 73	★★★
 <b>SFB</b>	★



### PLATFORM SCALES WITH STAINLESS STEEL DISPLAY

	★★★★
 <b>IXS</b>	★★★
 <b>SFE</b>	★

### INDUSTRIAL PLATFORM SCALES

	★★★★
 <b>EOC</b>	★★★
 <b>IFB</b>	★★
 <b>IOC</b>	★
 <b>IFS</b>	
 <b>IFT</b>	
▶ Page 86	

### PARCEL SCALES

	★★★★
 <b>EOB</b>	★★★
 <b>EOS</b>	★★
 <b>DE</b>	★
 <b>EOE</b>	



**Florian Bächle**  
Product specialist Platform scales

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florian.baechle@kern-sohn.com

- ▷ **Industry 4.0: A wide range of (optional) data interfaces allows that it is easy to transfer weighing data**
- ▷ **Practical dual-range scale – high precision paired with large weighing capacities**
- ▷ **Protected against water splashes through IP65 rating**



from € **270,-**

# HIGHLIGHT




# Quick-Finder Parcel scales/Platform scales

Readability [d] g	Weighing capacity [Max] kg	Weighing plate WxDxH mm	Model KERN	Price excl. of VAT ex works €	Page											
						For an explanation on the pictos, see front flap										
2	60	500x400x137	IFT 60K-3L	960,-	110	2*				•	•	•	•	•		•
2	120	450x350x115	IKT 120K2L	1050,-	108	1				•	•	•	•	•		•
2	150	650x500x142	IKT 150K2XL	1200,-	108	1				•	•	•	•	•		•
2   5	6   15	318x308x75	DE 15K2D	185,-	98	1				•		•	•	•	•	•
2   5	6   12	300x300x110	EOC 10K-3	270,-	100	1				•		•	•	•		•
2   5	6   15	300x240x110	IOC 10K-3M	295,-	102	1	◊			•		•	•	•		•
2   5	6   15	400x300x110	IOC 10K-3LM	360,-	102	1	◊			•		•	•	•		•
2   5	6   15	300x240x110	IFB 15K2DM	335,-	103	1	◊			•		•	•	•		•
2   5	6   15	400x300x128	IFB 15K2DLM	400,-	103	1	◊			•		•	•	•		•
2   5	6   15	300x240x86	IXS 10K-3M	520,-	106	1	◊			◊		•	•	•		•
2   5	6   15	400x300x89	IXS 10K-3LM	590,-	106	1	◊			◊		•	•	•		•
2   5	60   150	318x308x88	DE 150K2D	340,-	98	1				•		•	•	•	•	•
2   5	60   150	522x406x98	DE 150K2DL	435,-	98	1				•		•	•	•	•	•
2   5	60   150	300x300x110	EOC 100K-3	310,-	100	1				•		•	•	•		•
2   5	60   150	500x400x120	EOC 100K-3L	340,-	100	1				•		•	•	•		•
5	15	315x305x57	EOE 10K-3	135,-	95	1				•					•	
5	15	315x305x57	EOB 15K5	152,-	96	1				•					•	
5	15	300x240x110	SFE 10K-3NM	360,-	105	1	◊			•				•		•
5	15	400x300x130	SFE 10K-3LNM	420,-	105	1	◊			•				•		•
5	60	318x308x75	DE 60K5A	215,-	98	1				•		•	•	•	•	•
5	60	300x300x110	EOC 60K-3A	290,-	100	1				•		•	•	•		•
5	150	500x400x130	IFB 100K-3	490,-	103	1				•		•	•	•		•
5	150	650x500x142	IFB 100K-3L	690,-	103	1				•		•	•	•		•
5	150	500x400x123	IXS 100K-3	720,-	106	1				◊		•	•	•		•
5	150	650x500x133,5	IXS 100K-3L	790,-	106	2*				◊		•	•	•		•
5	150	500x400x137	IFT 100K-3	960,-	110	2*				•	•	•	•	•		•
5	150	650x500x142	IFT 100K-3L	1190,-	110	2*				•	•	•	•	•		•
5	300	650x500x142	IKT 300K5XL	1200,-	108	1				•	•	•	•	•		•
5   10	15   35	318x308x75	DE 35K5D	185,-	98	1				•		•	•	•	•	•
5   10	15   35	522x403x83	DE 35K5DL	315,-	98	1				•		•	•	•	•	•
5   10	15   35	300x300x110	EOC 30K-3	280,-	100	1				•		•	•	•		•
5   10	15   35	500x400x120	EOC 30K-3L	330,-	100	1				•		•	•	•		•
5   10	15   30	400x300x110	IOC 30K-3M	360,-	102	1	◊			•		•	•	•		•
5   10	15   30	400x300x128	IFB 30K5DM	390,-	103	1	◊			•		•	•	•		•
5   10	15   30	400x300x89	IXS 30K-2M	590,-	106	1	◊			•		◊	•	•		•
5   10	15   30	500x400x123	IXS 30K-2LM	720,-	106	1	◊			•		◊	•	•		•
5   10	150   300	522x406x98	DE 300K5DL	435,-	98	1				•		•	•	•	•	•
5   10	150   300	500x400x120	EOC 300K-3	340,-	100	1				•		•	•	•		•
10	30	300x240x110	SFE 30K-2NM	360,-	105	1	◊			•				•		•
10	35	315x305x57	EOE 30K-2	135,-	95	1				•					•	
10	35	315x305x57	EOB 35K10	152,-	96	1				•					•	
10	120	318x308x75	DE 120K10A	215,-	98	1				•		•	•	•	•	•
10	120	500x400x120	EOC 100K-2A	330,-	100	1				•		•	•	•		•
10	300	650x500x142	IFB 300K-2	690,-	103	1				•		•	•	•		•
10	300	650x500x133,5	IXS 300K-2	790,-	106	2*				•		◊	•	•		•
10   20	30   60	318x308x75	DE 60K10D	185,-	98	1				•		•	•	•	•	•
10   20	30   60	522x403x83	DE 60K10DL	315,-	98	1				•		•	•	•	•	•
10   20	30   60	300x300x110	EOC 60K-2	280,-	100	1				•		•	•	•		•
10   20	30   60	500x400x120	EOC 60K-2L	330,-	100	1				•		•	•	•		•
10   20	30   60	400x300x110	IOC 60K-2M	370,-	102	1	◊			•		•	•	•		•
10   20	30   60	500x400x120	IOC 60K-2LM	465,-	102	1	◊			•		•	•	•		•
10   20	30   60	400x300x128	IFB 60K10DM	410,-	103	1	◊			•		•	•	•		•
10   20	30   60	500x400x130	IFB 60K10DLM	505,-	103	1	◊			•		•	•	•		•
10   20	30   60	400x300x89	IXS 60K-2M	590,-	106	1	◊			•		◊	•	•		•
10   20	30   60	500x400x123	IXS 60K-2LM	720,-	106	1	◊			•		◊	•	•		•
20	60	315x305x57	EOE 60K-2	135,-	95	1				•					•	
20	60	550x550x58	EOE 60K-2L	270,-	95	1				•					•	
20	60	315x305x57	EOB 60K20	152,-	96	1				•					•	
20	60	550x550x58	EOB 60K20L	330,-	96	1				•					•	
20	60	400x300x130	SFE 60K-2NM	410,-	105	1	◊			•				•		•
20	60	500x400x140	SFE 60K-2LNM	520,-	105	1	◊			•				•		•
20	600	800x600x200	IFB 600K-2	790,-	103	2*				•		•	•	•		•
20   50	60   150	318x308x75	DE 150K20D	195,-	98	1				•		•	•	•	•	•
20   50	60   150	522x403x83	DE 150K20DL	315,-	98	1				•		•	•	•	•	•
20   50	60   150	650x500x89	DE 150K20DXL	450,-	98	1				•		•	•	•	•	•
20   50	60   150	300x300x110	EOC 100K-2	280,-	100	1				•		•	•	•		•
20   50	60   150	500x400x120	EOC 100K-2L	330,-	100	1				•		•	•	•		•
20   50	60   150	600x500x150	EOC 100K-2XL	470,-	100	1				•		•	•	•		•
20   50	60   150	950x500x60	EOC 100K-2XXL	490,-	100	1				•		•	•	•		•
20   50	60   150	500x400x120	IOC 100K-2M	465,-	102	1	◊			•		•	•	•		•
20   50	60   150	650x500x150	IOC 100K-2LM	625,-	102	1	◊			•		•	•	•		•

\* Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

• = standard ◊ = option

# Quick-Finder Parcel scales/Platform scales

Readability [d] g	Weighing capacity [Max] kg	Weighing plate W×D×H mm	Model KERN	Price excl. of VAT ex works €	Page	 For an explanation on the pictos, see front flap										
						1	○		●		●	●	●	●	●	○
20   50	60   150	500×400×130	IFB 150K20DM	495,-	103	1	○		●		●	●	●		○	
20   50	60   150	650×500×142	IFB 150K20DLM	665,-	103	1	○		●		●	●	●		○	
20   50	60   150	500×400×123	IXS 100K-2M	720,-	106	1	○		●		○	●	●		○	
20   50	60   150	650×500×133,5	IXS 100K-2LM	790,-	106	2*	○		●		○	●	●		○	
50	150	315×305×57	EOE 100K-2	135,-	95	1			●					●		
50	150	550×550×58	EOE 150K50L	270,-	95	1			●					●		
50	150	950×500×58	EOE 150K50XL	310,-	95	1			●					●		
50	150	315×305×57	EOB 150K50	152,-	96	1			●					●		
50	150	550×550×58	EOB 150K50L	330,-	96	1			●					●		
50	150	950×500×85	EOB 150K50XL	400,-	96	1			●					●		
50	150	950×500×58	EOS 150K50XL	395,-	97	1			●					●		
50	150	400×300×130	SFE 100K-2M	430,-	105	1	○		●			●		●		
50	150	500×400×140	SFE 100K-2LM	520,-	105	1	○		●			●		●		
50	150	650×500×140	SFE 100K-2LNM	660,-	105	1	○		●			●		●		
50   100	150   300	522×403×85	DE 300K50D	315,-	98	1			●		●	●	●	○		
50   100	150   300	650×500×89	DE 300K50DL	450,-	98	1			●		●	●	●	○		
50   100	150   300	500×400×120	EOC 300K-2	330,-	100	1			●		●	●	●	○		
50   100	150   300	600×500×150	EOC 300K-2L	470,-	100	1			●		●	●	●	○		
50   100	150   300	650×500×150	IOC 300K-2M	650,-	102	1	○		●		●	●	●	○		
50   100	150   300	650×500×142	IFB 300K50DM	665,-	103	1	○		●		●	●	●	○		
50   100	150   300	650×500×133,5	IXS 300K-2M	790,-	106	2*	○		●		○	●	●	○		
50   100	150   300	650×500×142	IFT 300K-2LM	1790,-	110	2*			●	●	●	●	●	○		
100	300	315×305×57	EOE 300K100	135,-	95	1			●					●		
100	300	550×550×58	EOE 300K100L	265,-	95	1			●					●		
100	300	950×500×58	EOE 300K100XL	310,-	95	1			●					●		
100	300	315×305×57	EOB 300K100A	152,-	96	1			●					●		
100	300	550×550×58	EOB 300K100L	330,-	96	1			●					●		
100	300	950×500×58	EOB 300K100XL	400,-	96	1			●					●		
100	300	950×500×58	EOS 300K100XL	395,-	97	1			●					●		
100	300	650×500×140	SFE 300K-1LNM	660,-	105	1	○		●			●		●		
100   200	300   600	800×600×200	IOC 600K-1M	790,-	102	2*	○		●		●	●		●		
100   200	300   600	800×600×200	IFB 600K-1M	930,-	103	2*	○		●		●	●		●		

\* Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

● = standard ○ = option

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## Did you know?

For determining the weight of goods e.g. on conveyor in production or dispatch lines, we offer a selection of different roller conveyor attachments for our platform scales. In this way you can convert your platform scale into a robust measuring system for rapid and flexible weight determination. For all details on this, please see page 182.



Roller conveyor KERN YRO



Parcel scales with big platform for fast and easy weighing in the office, production, dispatch etc.

<b>Features</b>	<b>Technical data</b>	<b>Accessories</b>
<ul style="list-style-type: none"> <li>• <b>High mobility:</b> thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations</li> <li>• <b>Wall mount</b> for display device, standard</li> <li>• <b>Hold function:</b> When the weighing conditions are unstable, a stable weight is calculated determining an average value</li> <li>• <b>Protective working cover</b> over the display device, included with delivery</li> </ul>	<ul style="list-style-type: none"> <li>• Large LCD display, digit height 25 mm</li> <li>• Weighing plate dimensions, steel, painted W×D×H                             <ul style="list-style-type: none"> <li><b>A</b> 315×305×57 mm</li> <li><b>B</b> 550×550×58 mm, see larger picture</li> <li><b>C</b> 950×500×58 mm</li> </ul> </li> <li>• Dimensions of display device W×D×H 235×114×51 mm</li> <li>• Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 100 h</li> <li>• Permissible ambient temperature 5 °C/35 °C</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Protective working cover</b>, scope of delivery: 5 items, KERN EOB-A04BS05, <b>€ 40,-</b></li> <li>• <b>Stand</b> to elevate display device, for models with weighing plate size <b>A</b>, height of stand approx. 480 mm, KERN EOB-A01N, <b>€ 50,-</b></li> <li>• <b>Stand</b> to elevate display device, height of stand approx. 1000 mm, KERN EOB-A02B, <b>€ 80,-</b></li> <li>• <b>External universal mains adapter</b>, with universal input and optional input socket adapters for EU, GB, USA, KERN YKA-16, <b>€ 40,-</b></li> </ul>

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STANDARD	OPTION
CAL EXT                  UNIT                  MOVE                  BATT                  MULTI                  DMS                  1 DAY	DAKKS +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Weighing plate	Net weight approx. kg	Cable length approx. m	Price excl. of VAT ex works €	Option	
								DAKKS KERN	DAKKS Calibr. Certificate €
<b>EOE 10K-3</b>	15	5	5	<b>A</b>	4,0	1,8	<b>135,-</b>	963-128	88,-
<b>EOE 30K-2</b>	35	10	10	<b>A</b>	3,8	1,8	<b>135,-</b>	963-128	88,-
<b>EOE 60K-2</b>	60	20	20	<b>A</b>	3,8	1,8	<b>135,-</b>	963-129	105,-
<b>EOE 60K-2L</b>	60	20	20	<b>B</b>	13	2,7	<b>270,-</b>	963-129	105,-
<b>EOE 100K-2</b>	150	50	50	<b>A</b>	3,8	1,8	<b>135,-</b>	963-129	105,-
<b>EOE 150K50L</b>	150	50	50	<b>B</b>	13	2,7	<b>270,-</b>	963-129	105,-
<b>EOE 150K50XL</b>	150	50	50	<b>C</b>	18	2,7	<b>310,-</b>	963-129	105,-
<b>EOE 300K100</b>	300	100	100	<b>A</b>	3,6	1,8	<b>135,-</b>	963-129	105,-
<b>EOE 300K100L</b>	300	100	100	<b>B</b>	13	2,7	<b>265,-</b>	963-129	105,-
<b>EOE 300K100XL</b>	300	100	100	<b>C</b>	18	2,7	<b>310,-</b>	963-129	105,-



The bestsellers in parcel- and veterinary scales, also with XL-platform, and big weighing capacities

**Features**

- **Weighing plate stainless steel**, painted steel base
- **Simple and convenient 4-key operation**
- **Wall mount** for display device, standard
- **Hold function:** When the weighing conditions are unstable, a stable weight is calculated determining an average value
- **Protective working cover** over the display device included with delivery
- **External universal mains adapter** included with delivery

**Technical data**

- Large LCD display, digit height 25 mm
- Weighing plate dimensions, stainless steel W×D×H
  - A 315×305×57 mm
  - B 550×550×58 mm, see larger picture
  - C 950×500×58 mm
- Dimensions of display device W×D×H 235×114×51 mm
- Cable length of display device approx. 2 m
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 60 h
- Permissible ambient temperature 5 °C/35 °C

**Accessories**

- **Protective working cover** over the display device, scope of delivery: 5 items, KERN EOB-A04BS05, **€ 40,-**
- **1 Stand** to elevate display device, height of stand approx. 1000 mm, can be reordered, KERN EOB-A02B, **€ 80,-**
- **2 KERN EOB: Stand** to elevate display device, for models with weighing plate size **A**, height of stand approx. 480 mm, KERN EOB-A01N, **€ 50,-**
- **Non-slip rubber mat** W×D×H 945×505×5 mm, KERN EOE-A01, **€ 45,-**

STANDARD

CAL EXT UNIT MOVE BATT MULTI DMS 1 DAY

OPTION

DAKKS +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option	
								DAKKS KERN	DAKKS Calibr. Certificate €
<b>KERN</b>									
<b>EOB 15K5</b>	15	5	5	± 10	3,8	A	<b>152,-</b>	963-128	88,-
<b>EOB 35K10</b>	35	10	10	± 20	3,8	A	<b>152,-</b>	963-128	88,-
<b>EOB 60K20</b>	60	20	20	± 40	3,8	A	<b>152,-</b>	963-129	105,-
<b>EOB 60K20L</b>	60	20	20	± 40	12	B	<b>330,-</b>	963-129	105,-
<b>EOB 150K50</b>	150	50	50	± 100	3,8	A	<b>152,-</b>	963-129	105,-
<b>EOB 150K50L</b>	150	50	50	± 100	11	B	<b>330,-</b>	963-129	105,-
<b>EOB 150K50XL</b>	150	50	50	± 100	17	C	<b>400,-</b>	963-129	105,-
<b>EOB 300K100A</b>	300	100	100	± 200	3,8	A	<b>152,-</b>	963-129	105,-
<b>EOB 300K100L</b>	300	100	100	± 200	12	B	<b>330,-</b>	963-129	105,-
<b>EOB 300K100XL</b>	300	100	100	± 200	17	C	<b>400,-</b>	963-129	105,-





The bestsellers in parcel- and veterinary scales, also with XL-platform, and big weighing capacities

**Features**

- **Weighing plate stainless steel**, painted steel base
- **Simple and convenient 4-key operation**
- **Wall mount** for display device, standard
- **Hold function:** When the weighing conditions are unstable, a stable weight is calculated determining an average value
- **Rollers and handle** The scale can be easily transported using rollers and a handle and does not require much storage space
- **Protective working cover** over the display device included with delivery
- **Non-slip rubber mat** included with delivery
- **External universal mains adapter** included with delivery

**Technical data**

- Large LCD display, digit height 25 mm
- Weighing plate dimensions, stainless steel W×D×H 950×500×58 mm
- Dimensions of display device W×D×H 235×114×51 mm
- Cable length of display device approx. 0,8 m
- Optional battery operation, 4×1.5 V AA not included, operating time up to 60 h
- Permissible ambient temperature 5 °C/35 °C

**Accessories**

- **Protective working cover**, scope of delivery: 5 items, KERN EOB-A04BS05, € 40,-
- **Stand** to elevate display device, height of stand approx. 1000 mm, KERN EOB-A02B, € 80,-
- **Non-slip rubber mat** W×D×H 945×505×5 mm, KERN EOE-A01, € 45,-

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STANDARD

CAL EXT UNIT MOVE BATT MULTI DMS 1 DAY

OPTION

DAkkS +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Net weight approx. kg	Price excl. of VAT ex works €	Option	
							DAkkS KERN	DAkkS Calibr. Certificate €
KERN EOS 150K50XL	150	50	50	± 100	17	395,-	963-129	105,-
KERN EOS 300K100XL	300	100	100	± 200	17	395,-	963-129	105,-

Price reduction



09

The long lasting story of success with dust and spray protected display device



Piece counting



Animal weighing



Recipe-weighing



**Features**

- **High mobility:** thanks to battery operation/ rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- **Display device** flexible positioning, e.g. free-standing or mounted to the wall
- **1 Display device:** plastic, protection against dust and water splashes IP65
- **Weighing plate stainless steel,** painted steel base
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- With the **recipe function** you can weigh the different ingredients of a mixture. As a check, you can also call up the total weight of all the ingredients
- **Freely programmable weighing unit,** e.g. display direct in special units such as length of thread g/m, paper weight g/m<sup>2</sup>, or similar

- **Protective working cover** included with delivery

**Technical data**

- Large backlit LCD display, digit height 25 mm
- Weighing plate dimensions, stainless steel W×D×H
  - A 318×308×75 mm
  - B 318×308×88 mm
  - C 522×406×98 mm, see larger picture
  - D 522×403×83 mm
  - E 650×500×89 mm
- Dimensions of display device, W×D×H 225×110×45 mm
- Optional battery operation, 9 V-Block not included in scope of delivery, operating time up to 12 h
- Permissible ambient temperature 5 °C/35 °C

**Accessories**

- **Protective working cover** over the display device, scope of delivery: 5 items, KERN DE-A12S05, € 40,-
- **Rechargeable battery pack internal,** operating time up to 30 h without backlight, charging time approx. 10 h, KERN NDE-A02, € 50,-
- **Mount to fasten the display device** to the platform, KERN DE-A11N, € 35,-
- **Wall mount** for display device, KERN DE-A13, € 30,-
- **2 Stand** to elevate display device, height of stand approx. 480 mm, KERN DE-A10, € 100,-
- **Individual header data:** the free software SHM-01 can be used to print header lines on the printout when using printers YKN-01 and YKB-01N
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Smallest part weight [Normal] g/piece	Cable length approx. m	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option	
										DAkKS KERN	DAkKS Calibr. Certificate €
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readability [d]											
DE 6K1D	3   6	1   2	1   2	± 3   6	40	1,4	4,8	A	185,-	963-128	88,-
DE 15K2D	6   15	2   5	2   5	± 6   15	100	1,4	4,8	A	185,-	963-128	88,-
DE 35K5D	15   35	5   10	5   10	± 15   30	100	1,4	4,8	A	185,-	963-128	88,-
DE 35K5DL	15   35	5   10	5   10	± 15   30	100	1,4	16	D	315,-	963-128	88,-
DE 60K10D	30   60	10   20	10   20	± 30   60	200	1,4	4,8	A	185,-	963-129	105,-
DE 60K10DL	30   60	10   20	10   20	± 30   60	200	1,4	16	D	315,-	963-129	105,-
DE 150K20D	60   150	20   50	20   50	± 60   150	400	1,6	5,0	A	195,-	963-129	105,-
DE 150K20DL	60   150	20   50	20   50	± 60   150	400	1,4	16	D	315,-	963-129	105,-
DE 150K20DXL	60   150	20   50	20   50	± 60   150	400	1,4	28	E	450,-	963-129	105,-
DE 300K50D	150   300	50   100	50   100	± 150   300	2000	1,25	16	D	315,-	963-129	105,-
DE 300K50DL	150   300	50   100	50   100	± 150   300	2000	1,05	28	E	450,-	963-129	105,-
DE 6K0.5A	6	0,5	0,5	± 1,5	10	1,4	4,8	A	215,-	963-128	88,-
DE 12K1A	12	1	1	± 3	20	1,4	4,8	A	215,-	963-128	88,-
DE 24K2A	24	2	2	± 6	40	1,4	4,8	A	215,-	963-128	88,-
DE 60K5A	60	5	5	± 15	100	1,4	4,8	A	215,-	963-129	105,-
DE 120K10A	120	10	10	± 30	200	1,4	5,0	A	215,-	963-129	105,-
Dual-range balance with high resolution readability											
DE 15K0.2D	6   15	0,2   0,5	0,2   0,5	± 0,8   2	4	1	4	B	335,-	963-128	88,-
DE 35K0.5D	15   35	0,5   1	0,5   1	± 2   4	10	1	7	B	335,-	963-128	88,-
DE 60K1D	30   60	1   2	1   2	± 4   8	20	1,47	7	B	335,-	963-129	105,-
DE 60K1DL	30   60	1   2	1   2	± 4   8	20	1,4	15	C	435,-	963-129	105,-
DE 150K2D	60   150	2   5	2   5	± 8   20	40	1,6	7	B	340,-	963-129	105,-
DE 150K2DL	60   150	2   5	2   5	± 8   20	40	1,4	15	C	435,-	963-129	105,-
DE 300K5DL	150   300	5   10	5   10	± 20   40	100	1,4	15	C	435,-	963-129	105,-



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Robust and high-resolution platform scale with practical Flip/Flop display device for greatest ease of use

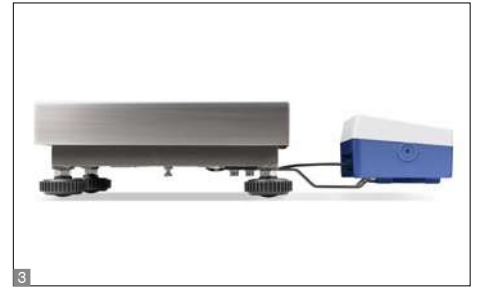


**Weighing instead of counting!**

Because the counting function is so easy to use, you can rapidly record large numbers of small parts – which saves time and money

**Practical Flip/Flop display device:** flexible positioning e.g. free-standing or screwed to the wall (optional). By rotating the upper housing shell you can determine the angle of the display as well as the cable outlet.

Factory Option ex works for an additional cost, delivery time + 2 working days, KERN KIB-M01, see Accessories on the right, please indicate when placing your order



**Features**

- **High mobility:** thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (laboratory, production, quality control, commissioning etc.)
- **1 Platform:** weighing plate stainless steel, painted steel base, silicone-coated aluminium load cell, protection against dust and water splashes IP65. **Level indicator and levelling feet** for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- **Weighing with tolerance range (check-weighing):** a visual and audible signal helps with portioning, dispensing or grading
- **Hold function:** When the weighing conditions are unstable, a stable weight is calculated determining an average value
- **Benchtop stand incl. wall mount** for display device as standard
- **Protective working cover** included with delivery

- **Searching and remote control of the balance** using external control devices or computers with the KERN Communication Protocol (KCP). KCP is a standardised interface command structure for KERN balances and other instruments which allows you to recall and manage all relevant parameters and device functions. You can therefore simply connect KERN devices with KCP to computers, industrial control systems and other digital systems. In a large number of cases the KCP is compatible with the MT-SICS protocol. Only possible through data interface RS-232, other interfaces on request

**Technical data**

- Large backlit LCD display, digit height 24 mm
- Weighing plate dimensions W×D×H
  - A 300×300×110 mm
  - B 500×400×120 mm, see larger picture
  - C 600×500×150 mm
  - D 950×500×60 mm
- Dimensions of display device W×D×H 268×115×80 mm
- Permissible ambient temperature -10 °C/40 °C

**Accessories**

- **Protective working cover**, scope of delivery: 5 items, KERN EOC-A01S05, **€ 40,-**
- **Internal rechargeable battery pack**, operating time up to 43 h without backlight, charging time approx. 3 h, KERN KFB-A01, **€ 35,-**
- **2 Stand** to elevate display device, height of stand approx. 330 mm, KERN EOC-A05, **€ 60,-**
- **3 Mount to fasten the display device** to the platform, KERN EOC-A03, **€ 30,-**
- **Benchtop stand incl. wall mount** for display device, **Benchtop stand incl. wall mount** for display device, KERN EOC-A04, **€ 30,-**
- **Conversion of the display device**, to move the cable outlet to the front of the display device, ideal e.g. for subsequent wall installation of the display device (standard configuration ex works: rear outlet), Factory Option, delivery time + 2 working days, KERN KIB-M01, **€ 95,-**

STANDARD

CAL EXT | RS 232 | KCP | GLP | PCS | SUM | PERCENT | TOL | MOVE | IP 65 | MULTI | DMS | 1 DAY

OPTION

ACCU | DAKKS | +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Smallest part weight [Normal] g/piece	Cable length approx. m	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option	
								DAkKS	Calibr. Certificate
<b>KERN</b>								DAkKS	€
EOC 6K-3	3   6	1   2	2,5	3	6	A	270,-	963-128	88,-
EOC 10K-3	6   12	2   5	5	3	7	A	270,-	963-128	88,-
EOC 30K-3	15   35	5   10	10	3	6	A	280,-	963-128	88,-
EOC 30K-3L	15   35	5   10	10	3	9	B	330,-	963-128	88,-
EOC 60K-2	30   60	10   20	20	3	6	A	280,-	963-129	105,-
EOC 60K-2L	30   60	10   20	20	3	9	B	330,-	963-129	105,-
EOC 100K-2	60   150	20   50	50	3	6	A	280,-	963-129	105,-
EOC 100K-2L	60   150	20   50	50	3	9	B	330,-	963-129	105,-
EOC 100K-2XL	60   150	20   50	50	3	19	C	470,-	963-129	105,-
EOC 100K-2XXL	60   150	20   50	100	0,7 - 2,7	26	D	490,-	963-129	105,-
EOC 300K-2	150   300	50   100	100	3	9	B	330,-	963-129	105,-
EOC 300K-2L	150   300	50   100	100	3	19	C	470,-	963-129	105,-
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readability [d]									
EOC 10K-4	6   15	0,2   0,5	5	3	7	A	310,-	963-128	88,-
EOC 30K-4S <span style="color: orange;">NEW</span>	15   35	0,5   1	10	3	9	A	310,-	963-128	88,-
EOC 30K-4	15   35	0,5   1	10	3	9	B	340,-	963-128	88,-
EOC 60K-3	30   60	1   2	20	3	6	A	310,-	963-129	105,-
EOC 60K-3L	30   60	1   2	20	3	9	B	340,-	963-129	105,-
EOC 100K-3	60   150	2   5	50	3	7	A	310,-	963-129	105,-
EOC 100K-3L	60   150	2   5	50	3	9	B	340,-	963-129	105,-
EOC 300K-3	150   300	5   10	100	3	9	B	340,-	963-129	105,-

NEW New model



## Allround platform scale with a wide range of communication options and EC type approval [M]

### Features

- **Industry 4.0:** A wide range of (optional) data interfaces allows that it is easy to transfer weighing data to tablets, laptops, PCs, networks, Smartphones, printers, etc.
- **High mobility:** thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (laboratory, production, quality control, commissioning etc.)
- **Platform:** weighing plate stainless steel, painted steel base, silicone-coated aluminium load cell, protection against dust and water splashes IP65
- **Level indicator and levelling feet** for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- **Searching and remote control of the balance** using external control devices or computers with the KERN Communication Protocol (KCP). KCP is a standardised interface command structure for KERN balances and other instruments which allows you to recall and manage all relevant parameters and device functions. You can therefore simply connect

KERN devices with KCP to computers, industrial control systems and other digital systems. In a large number of cases the KCP is compatible with the MT-SICS protocol. Only possible through data interface RS-232, other interfaces on request

### Technical data

- Large backlit LCD display, digit height 24 mm
- Weighing plate dimensions W×D×H
  - A 300×300×110 mm
  - B 400×300×110 mm
  - C 500×400×120 mm, see larger picture
  - D 650×500×150 mm
  - E 800×600×200 mm
- Dimensions of display device W×D×H 260×115×70 mm
- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C

### Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN EOC-A01S05, € 40,-

- **1 Stand** to elevate display device, height of stand approx. 330 mm, KERN EOC-A05, € 60,-
- **Mount to fasten the display device** to the platform, KERN EOC-A03, € 30,-
- **2 Benchtop stand incl. wall mount** for display device, KERN EOC-A04, € 30,-
- **Rechargeable battery pack internal**, operating time up to 26 h with backlight, charging time approx. 3 h, KERN KFB-A01, € 35,-
- **USB data interface**, must be ordered at purchase, KERN KIB-A03, € 120,-
- **Bluetooth data interface**, must be ordered at purchase, KERN KIB-A04, € 110,-
- **WiFi interface** must be ordered at purchase, KERN KIB-A10, € 55,-
- **Ethernet data interface**, to connect an IP-based Ethernet network, must be ordered at purchase, KERN KIB-A02, € 150,-
- **Signal lamp, including interface**, for visual support of weighing with tolerance range, must be ordered at purchase, KERN KIB-A06, € 320,-
- **Verification plug**, for verified balances this enables you to separate the display device and platform without affecting the verification, e.g. for installing the scale in a packing and dispatch table, pit frame etc. at a later date. Please order this at the same time as you purchase your scale, KERN KIB-A12, € 80,-
- **Conversion of the display device**, to move the cable outlet to the front of the display device, ideal e.g. for subsequent wall installation of the display device (standard configuration ex works: rear outlet), Factory Option, delivery time + 2 working days, KERN KIB-M01, € 95,-
- Note: In addition to the RS-232 data interface, which is integrated as standard, only one other data interface can be installed and operated

STANDARD															OPTION		FACTORY				
CAL EXT	RS 232	KCP	GLP	PCS	SUM	PERCENT	TOL	MOVE	IP 65	MULTI	DMS	1 DAY	2 DAYS	ACCU	DAKKS	ALIBI	USB	BT 4.0	WLAN	LAN	M
		PROTOCOL	PRINTER											+3 DAYS							+3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Weighing plate	Price excl. of VAT ex works €	Option			
							Verification		DAkkS Calibr. Certificate	
							M	KERN	€	DAkkS KERN
IOC 6K-3M	3   6	1   2	1   2	20   40	B	320,-	965-228	70,-	963-128	88,-
IOC 10K-3M	6   15	2   5	2   5	40   100	A	295,-	965-228	70,-	963-128	88,-
IOC 10K-3LM	6   15	2   5	2   5	40   100	C	360,-	965-228	70,-	963-128	88,-
IOC 30K-3M	15   30	5   10	5   10	100   200	C	360,-	965-228	70,-	963-128	88,-
IOC 60K-2M	30   60	10   20	10   20	200   400	C	370,-	965-229	93,-	963-129	105,-
IOC 60K-2LM	30   60	10   20	10   20	200   400	D	465,-	965-229	93,-	963-129	105,-
IOC 100K-2M	60   150	20   50	20   50	400   1000	D	465,-	965-229	93,-	963-129	105,-
IOC 100K-2LM	60   150	20   50	20   50	400   1000	E	625,-	965-229	93,-	963-129	105,-
IOC 300K-2M	150   300	50   100	50   100	1000   2000	E	650,-	965-229	93,-	963-129	105,-
IOC 600K-1M	300   600	100   200	100   200	2000   4000	F	790,-	965-230	132,-	963-130	165,-

\* Verification not in combination with KERN KIB-A02, KIB-A03, KIB-A04, KIB-A10

Price reduction



**Accessories**

- **Protective working cover**, scope of delivery: 5 items, KERN KFB-A02S05, **€ 40,-**
- **Stand** to elevate display device, for models with weighing plate size
  - A - ■ E: Height of stand approx. 330 mm, KERN IFB-A01, **€ 50,-**
  - D, ■ 2: Height of stand approx. 600 mm, KERN IFB-A02, **€ 60,-**
  - A - ■ F: Height of stand approx. 800 mm, **Stand** to elevate display device, height of stand approx. 800 mm, KERN BFS-A07, **€ 120,-**
- **Rechargeable battery pack internal**, operating time up to 35 h, without backlight, charging time approx. 12 h, must be ordered at purchase, KERN KFB-A01, **€ 35,-**
- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification, KERN KFB-A03, **€ 130,-**
- Analogue module, e.g. for connection to Siemens SPS® controls, must be ordered at purchase, not possible in combination with signal lamp 0-10 V: KERN KFB-A04, **€ 95,-** 4-20 mA: KERN KFB-A05, **€ 95,-**
- **Signal lamp KERN CFS-A03, € 250,-**
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, **€ 35,-**

High-resolution industrial scale in heavy version with EC type approval [M], now also up to [Max] 600 kg

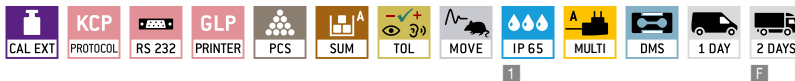
**Features**

- **Tough industry standard** suitable for use in harsh industrial applications
- **Platform:** weighing plate stainless steel, painted steel base, silicone-coated aluminium load cell, protection against dust and water splashes IP65
- **Benchtop stand incl. wall mount** for display device as standard
- **Protective working cover** included with delivery

**Technical data**

- Large backlit LCD display, digit height 52 mm
- Weighing plate dimensions, stainless steel W×D×H
  - A 230×230×110 mm, ■ B 300×240×110 mm
  - C 400×300×128 mm, ■ D 500×400×130 mm
  - E 650×500×142 mm, ■ F 800×600×200 mm
- Dimensions of display device W×D×H 230×230×360 mm
- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C

STANDARD



OPTION FACTORY



Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option					
								Verification	€	DAkkS KERN	DAkkS Calibr. Certificate		
KERN													
IFB 3K-4	3	0,1	-	-	6	A	350,-	-	-	963-127	72,-		
IFB 6K-4S	6	0,2	-	-	6	A	340,-	-	-	963-128	88,-		
IFB 6K-4	6	0,2	-	-	6	B	350,-	-	-	963-128	88,-		
IFB 10K-4	15	0,5	-	-	6	B	320,-	-	-	963-128	88,-		
IFB 10K-4L	15	0,5	-	-	10	C	390,-	-	-	963-128	88,-		
IFB 30K-3	30	1	-	-	10	C	390,-	-	-	963-128	88,-		
IFB 60K-3	60	2	-	-	10	C	390,-	-	-	963-129	105,-		
IFB 60K-3L	60	2	-	-	14	D	490,-	-	-	963-129	105,-		
IFB 100K-3	150	5	-	-	11	D	490,-	-	-	963-129	105,-		
IFB 100K-3L	150	5	-	-	20	E	690,-	-	-	963-129	105,-		
IFB 300K-2	300	10	-	-	20	E	690,-	-	-	963-129	105,-		
IFB 600K-2	600	20	-	-	65	F	790,-	-	-	963-130	165,-		
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readability [d]													
IFB 6K-3SM	3   6	1   2	1   2	20   40	4,6	A	350,-	965-228	70,-	963-128	88,-		
IFB 6K1DM	3   6	1   2	1   2	20   40	6	B	335,-	965-228	70,-	963-128	88,-		
IFB 15K2DM	6   15	2   5	2   5	40   100	6	B	335,-	965-228	70,-	963-128	88,-		
IFB 15K2DLM	6   15	2   5	2   5	40   100	10	C	400,-	965-228	70,-	963-128	88,-		
IFB 30K5DM	15   30	5   10	5   10	100   200	10	C	390,-	965-228	70,-	963-128	88,-		
IFB 60K10DM	30   60	10   20	10   20	200   400	10	C	410,-	965-229	93,-	963-129	105,-		
IFB 60K10DLM	30   60	10   20	10   20	200   400	13	D	505,-	965-229	93,-	963-129	105,-		
IFB 150K20DM	60   150	20   50	20   50	400   1000	14	D	495,-	965-229	93,-	963-129	105,-		
IFB 150K20DLM	60   150	20   50	20   50	400   1000	20	E	665,-	965-229	93,-	963-129	105,-		
IFB 300K50DM	150   300	50   100	50   100	1000   2000	22	E	665,-	965-229	93,-	963-129	105,-		
IFB 600K-1M	300   600	100   200	100   200	2000   4000	65	F	930,-	965-230	132,-	963-130	165,-		

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

Price reduction



## Precision industrial scale with laboratory accuracy

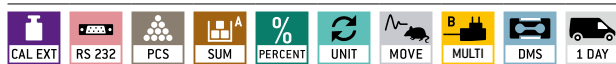
### Features

- **High-capacity precision balance**, ideal for high volume or heavy samples to be weighed with a high degree of accuracy
- **User guidance step by step** on display by Yes/No dialogue
- Numerical subtraction of tare weight for known container weight. Useful for checking fill-levels
- **Precise counting**: The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- KERN DS: **Freely programmable weighing unit**, e.g. display direct in special units such as length of wire g/m, surface weight g/m<sup>2</sup>, or else
- **Protective working cover** included with delivery

### Technical data

- Large backlit LCD display, digit height 18 mm
- Weighing plate dimensions, stainless steel W×D×H
  - A 228×228×95 mm
  - B 308×318×75 mm, see larger picture
  - C 450×350×115 mm
- Dimensions of display device W×D×H 225×115×60 mm
- Cable length of display device approx.
  - A, B 2 m
  - C 0,6 m
- Permissible ambient temperature 10 °C/40 °C

#### STANDARD



#### OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Smallest part weight [Normal] g/piece	Net weight approx. kg	Resolution Points	Weighing plate	Price excl. of VAT ex works €	Option	
								DAKKS	Calibr. Certificate
<b>KERN</b>								DAKKS	€
DS 3K0.01S	3	0,01	0,1	4,2	300.000	A	640,-	963-127	72,-
DS 5K0.05S	5	0,05	0,5	4,2	100.000	A	560,-	963-127	72,-
DS 8K0.05	8	0,05	0,5	8	160.000	B	550,-	963-128	88,-
DS 10K0.1S	10	0,1	1	4,2	100.000	A	530,-	963-128	88,-
DS 16K0.1	16	0,1	1	9	160.000	B	550,-	963-128	88,-
DS 20K0.1	20	0,1	1	8	200.000	B	580,-	963-128	88,-
DS 30K0.1	30	0,1	1	8	300.000	B	610,-	963-128	88,-
DS 30K0.1L	30	0,1	1	10	300.000	C	720,-	963-128	88,-
DS 36K0.2	36	0,2	2	8	180.000	B	550,-	963-128	88,-
DS 36K0.2L	36	0,2	2	10	180.000	C	660,-	963-128	88,-
DS 60K0.2	60	0,2	2	10	300.000	C	740,-	963-129	105,-
DS 65K0.5	65	0,5	5	10	130.000	C	700,-	963-129	105,-
DS 100K0.5	100	0,5	5	10	200.000	C	740,-	963-129	105,-
DS 150K1	150	1	10	10	150.000	C	740,-	963-129	105,-

### Accessories

- **Protective working cover** over the display device, scope of delivery: 5 items, KERN DE-A12S05, **€ 40,-**
- **1 Stand** to elevate display device, for models with weighing plate size B, C, height of stand approx. 480 mm, KERN DE-A10, **€ 100,-**
- **Mount to fasten the display device to the platform**, for models with weighing plate size B, C, can be reordered, KERN DE-A11N, **€ 35,-**
- **Wall mount** for display device, KERN DS-A02, **€ 30,-**
- **2 Set for underfloor weighing**, consists of platform, bow, hook, only for models with weighing plate B, KERN DS-A01, **€ 200,-**
- **Rechargeable battery pack external**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 160,-**
- **Rechargeable battery pack internal**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KB-A01N, **€ 50,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*





## Platform scale with dust and spray protection IP65 and EC type approval [M]

### Features

- Platform scale protected to IP65 with stainless steel display device, for industrial applications, hygienic and easy to clean
- 1 Platform:** weighing plate stainless steel, painted steel base, silicone-coated aluminium load cell, protection against dust and water splashes IP65
- Display device:** stainless steel, protection against dust and water splashes IP65, flexible positioning, e.g. free-standing or mounted to the wall, for details see KERN KFE-TNM
- Weighing with tolerance range (check-weighing):** a visual and audible signal helps with portioning, dispensing or grading
- Hold function:** When the weighing conditions are unstable, a stable weight is calculated determining an average value

### Technical data

- Large backlit LCD display, digit height 22 mm
- Weighing plate dimensions, stainless steel W×D×H
  - A** 300×240×110 mm, see larger picture
  - B** 400×300×130 mm
  - C** 500×400×140 mm
  - D** 650×500×140 mm
- Dimensions of display device W×D×H 195×118×83 mm
- Cable length of display device approx. 3 m
- Rechargeable battery pack internal, operating time up to 35 h without backlight, charging time approx. 12 h
- Permissible ambient temperature -10 °C/40 °C

### Accessories

- Stand** to elevate display device, for models with weighing plate size
  - A-D:** Height of stand approx. 200 mm, Type **2** KERN SFE-A01, **€ 55,-**
  - B-D:** Height of stand approx. 400 mm, Type **2** KERN SFE-A02, **€ 55,-**
  - C-D:** Height of stand approx. 600 mm, Type **3** KERN SFE-A03, **€ 65,-**
- Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., W×D×H 370×240×20 mm, KERN RFS-A02, **€ 55,-**

#### STANDARD



#### OPTION



#### FACTORY



Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option			
								Verification		DAkkS Calibr. Certificate	
								M III KERN	€	DAkkS KERN	€
SFE 6K-3NM	6	2	2	40	6	A	370,-	965-228	70,-	963-128	88,-
SFE 10K-3NM	15	5	5	100	6	A	360,-	965-228	70,-	963-128	88,-
SFE 10K-3LNM	15	5	5	100	10	B	420,-	965-228	70,-	963-128	88,-
SFE 30K-2NM	30	10	10	200	6	A	360,-	965-228	70,-	963-128	88,-
SFE 60K-2NM	60	20	20	400	10	B	410,-	965-229	93,-	963-129	105,-
SFE 60K-2LNM	60	20	20	400	14	C	520,-	965-229	93,-	963-129	105,-
SFE 100K-2NM	150	50	50	1000	10	B	430,-	965-229	93,-	963-129	105,-
SFE 100K-2LNM	150	50	50	1000	14	C	520,-	965-229	93,-	963-129	105,-
SFE 100K-2XLNM	150	50	50	1000	22	D	660,-	965-229	93,-	963-129	105,-
SFE 300K-1LNM	300	100	100	2000	20	D	660,-	965-229	93,-	963-129	105,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

Price reduction



09

Platform scale with stainless steel display device with IP68 rating, XL-display and EC type approval [M] – now also as high resolution version with high-resolution display



Piece-counting function



Durable stainless steel weighing plate



Stainless steel display device with IP68 protection, hygienic and easy to clean

# Platform scale with stainless steel display device KERN IXS



## Features

- **Tough industry standard** suitable for use in harsh industrial applications
- **1 Platform:** weighing plate stainless steel, painted steel base, silicone-coated aluminium load cell, protection against dust and water splashes IP65, Substruction in wing design, extremely resistant to bending
- **Superior display size:** digit height 55 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- **2 Display device:** stainless steel, protection against dust and water splashes IP68, integrated power supply
- **ESD drain to protect against electrostatic discharge** e.g. for electrostatically-charged weighing objects or people who work with the scale
- Thanks to **interfaces** such as RS-232, RS-485 and Bluetooth (optional) the scale can easily be connected to existing networks and facilitates the data exchange between the scale and printer

## Technical data

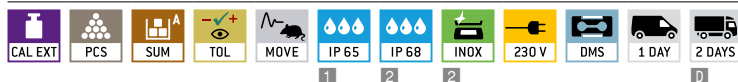
- Large backlit LCD display, digit height 55 mm
- Weighing plate dimensions, stainless steel W×D×H
  - A** 300×240×86 mm
  - B** 400×300×89 mm
  - C** 500×400×123 mm
  - D** 650×500×133,5 mm
- Dimensions of display device W×D×H 232×170×80 mm
- Cable length of display device approx. 2,5 m
- Permissible ambient temperature -10 °C/40 °C

## Accessories

- **3 Stand** to elevate display device
  - A-D** Height of stand approx. 50 mm, KERN IXS-A01, **€ 55,-**
  - A-D** Height of stand approx. 200 mm, KERN IXS-A02, **€ 70,-**
  - B-D** Height of stand approx. 400 mm, KERN IXS-A03, **€ 75,-**
  - C-D** Height of stand approx. 600 mm, KERN IXS-A04, **€ 85,-**

- **Rechargeable battery pack internal**, operating time up to 80 h without backlight, charging time approx. 12 h, must be ordered at purchase, Factory Option, KERN GAB-A04, **€ 40,-**
- **Data interface RS-232**, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KXS-A04, **€ 100,-**
- **Data interface RS-485**, must be ordered at purchase, KERN KXS-A01, **€ 145,-**
- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification, KERN KXS-A02, **€ 170,-**
- **Foot switch**, must be ordered at purchase, KERN KXS-A03, **€ 130,-**
- **Roller conveyor attachment**, with smooth-running, hot-dip galvanised steel rollers with ball bearings, robust aluminium profile frame, KERN YRO-01, **€ 660,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

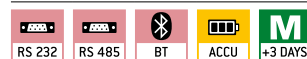
## STANDARD



## OPTION



## FACTORY



Model	Weighing range [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option			
								Verification		DAkKS Calibr. Certificate	
KERN								M III KERN	€	DAkKS KERN	€
IXS 6K-4	6	0,2	-	-	6	A	520,-	-	-	963-128	88,-
IXS 10K-4	15	0,5	-	-	6	A	520,-	-	-	963-128	88,-
IXS 10K-4L	15	0,5	-	-	11	B	590,-	-	-	963-128	88,-
IXS 30K-3	30	1	-	-	11	B	590,-	-	-	963-128	88,-
IXS 30K-3L	30	1	-	-	22	C	720,-	-	-	963-128	88,-
IXS 60K-3	60	2	-	-	11	B	590,-	-	-	963-129	105,-
IXS 60K-3L	60	2	-	-	22	C	720,-	-	-	963-129	105,-
IXS 100K-3	150	5	-	-	22	C	720,-	-	-	963-129	105,-
IXS 100K-3L	150	5	-	-	36	D	790,-	-	-	963-129	105,-
IXS 300K-2	300	10	-	-	36	D	790,-	-	-	963-129	105,-
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readability [d]											
IXS 6K-3M	3   6	1   2	1   2	20   40	6	A	520,-	965-228	70,-	963-128	88,-
IXS 10K-3M	6   15	2   5	2   5	40   100	6	A	520,-	965-228	70,-	963-128	88,-
IXS 10K-3LM	6   15	2   5	2   5	40   100	11	B	590,-	965-228	70,-	963-128	88,-
IXS 30K-2M	15   30	5   10	5   10	100   200	11	B	590,-	965-228	70,-	963-128	88,-
IXS 30K-2LM	15   30	5   10	5   10	100   200	22	C	720,-	965-228	70,-	963-128	88,-
IXS 60K-2M	30   60	10   20	10   20	200   400	11	B	590,-	965-229	93,-	963-129	105,-
IXS 60K-2LM	30   60	10   20	10   20	200   400	22	C	720,-	965-229	93,-	963-129	105,-
IXS 100K-2M	60   150	20   50	20   50	400   1000	22	C	720,-	965-229	93,-	963-129	105,-
IXS 100K-2LM	60   150	20   50	20   50	400   1000	36	D	790,-	965-229	93,-	963-129	105,-
IXS 300K-2M	150   300	50   100	50   100	1000   2000	36	D	790,-	965-229	93,-	963-129	105,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

\* Either RS-232 or RS-485 can be installed and used



**Alibi memory**

- Ring memory for up to 49,152 measuring results (744 measuring results per day!)
- Saved measuring results cannot be changed or cleared. If the maximum memory capacity is reached, then the oldest value will be overwritten
- In addition to the measuring result, the date, time, tare value, a sequential number and the serial number of the balance are also saved.
- Saved measuring results can be searched and recalled easily
- The alibi memory can also be used for applications which do not require verification
- Complies with WELMEC 2.5



Touchscreen platform scale with enormous range of functions



**Easy input of text and values**  
Using large keypad, e.g. up to 80 item descriptions, user name, packaging weights for tare containers etc.



**80 memories for each mode**  
e.g. for Checkweighing, PRE-TARE, reference weight, target value when dispensing, item descriptions, user name, weights for tare containers, etc. Easy to enter using the large-scale keypad



**Professional counting function**  
All relevant counting information at a glance, such as, e.g., reference weight, reference quantity, total count, total weight, tare container weight, available weighing capacity and much more

**Features**

- **Convenient recipe weighing:** 99 recipes with 10 components each can be stored in plain text. There is a function to adjust the other components if the initial weight was too high. The actual values and the desired values well as the proportionate percentages can be printed afterwards.
- **Multiplier function:** recipes with the ingredient weights recorded as percentage values can easily be replicated by entering a new target weight. The ideal solution for the preparation of larger containers, bulk packs etc.
- **Rapid function** for shortened stabilisation time with reduced readout
- **Control outputs (optocoupler, digital I/O)** to connect relays, signal lamps, valves etc. (35V/80mA)

**Technical data**

- Large backlit LCD touch display, digit height 18 mm, screen diagonal 5,8" (127×74 mm)
- Weighing plate dimensions, stainless steel W×D×H
  - A 228×228×95 mm
  - B 315×308×75 mm
  - C 450×350×115 mm
  - D 650×500×142 mm
- Dimensions of display device W×D×H 200×155×68 mm
- Cable length of display device approx., for models with weighing plate size
  - A 1 m
  - B, D 2 m
  - C 0,6 m
- Permissible ambient temperature 10 °C/40 °C

**Accessories**

- **Rechargeable battery pack external**, operating time up to 20 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 160,-**
- **Signal lamp** for visual support of weighing with tolerance range, KERN IKT-A04, **€ 260,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- **RS-232/USB adapter**, to connect peripheral devices with USB connection, KERN AFH 12, **€ 85,-**
- **Set for underfloor weighing**, consists of platform, bow, hook, only for models with weighing plate B, KERN DS-A01, **€ 200,-**
- **Stand** to elevate display device, for models with weighing plate size B, C, height of stand approx. 480 mm, KERN IKT-A06, **€ 105,-**
- **Wall mount** for display device, KERN IKT-A03, **€ 35,-**
- **Suitable printers** see *Accessories*

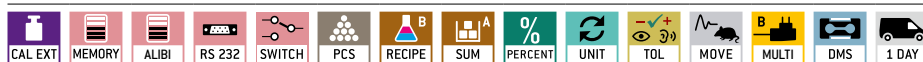
**Modes**

- ① Weighing
- ② Counting
- ③ Dispensing
- ④ Recipe weighing
- ⑤ Checkweighing
- ⑥ Totalising with daily total
- ⑦ Percentage determination
- ⑧ Animal weighing
- ⑨ Surface weight
- ⑩ Density determination, only with B
- ⑪ Rapid function

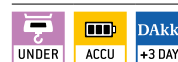
**Functions**

- Capacity display with ①, ②, ⑤-⑦, ⑨-⑩
- Dispensing aid (-/+), with ③, ④
- Net/gross display, permanent, with ①, ③-⑤, ⑧-⑪
- Variable reference quantity, with ②
- Automatic reference optimisation, with ②
- PRE-TARE numerical or from the memory unit, with ①-⑦, ⑪
- Entering of item or batch description, operator etc., with ①-⑦, ⑪
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, grammage g/m<sup>2</sup>, or similar, with ⑨
- Date/time, with ①-⑪
- Statistical function, with ①
- GLP printout, with ①-⑪
- Individual formatting of up to 16 printer forms, recipes, operating mode master data in MS Excel, import via RS-232, for examples, see the internet, with ①-⑪

STANDARD



OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Smallest part weight [Normal] g/piece	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option	
							DAkKS Calibr. Certificate DAkKS KERN	€
<b>IKT 6K0.1</b>	6	0,1	1	8	B	<b>830,-</b>	963-128	88,-
<b>IKT 12K0.2*</b>	12	0,2	2	8	B	<b>830,-</b>	963-128	88,-
<b>IKT 30K0.5</b>	30	0,5	5	8	B	<b>830,-</b>	963-128	88,-
<b>IKT 60K1L</b>	60	1	10	10	C	<b>1050,-</b>	963-129	105,-
<b>IKT 150K2XL</b>	150	2	20	20	D	<b>1200,-</b>	963-129	105,-
<b>IKT 300K5XL</b>	300	5	50	20	D	<b>1200,-</b>	963-129	105,-
<b>IKT 3K0.01S</b>	3	0,01	0,1	6	A	<b>920,-</b>	963-127	72,-
<b>IKT 8K0.05</b>	8	0,05	0,5	8	B	<b>850,-</b>	963-128	88,-
<b>IKT 16K0.1</b>	16	0,1	1	8	B	<b>850,-</b>	963-128	88,-
<b>IKT 30K0.1</b>	30	0,1	1	8	B	<b>850,-</b>	963-128	88,-
<b>IKT 30K0.1L</b>	30	0,1	1	10	C	<b>1150,-</b>	963-128	88,-
<b>IKT 36K0.2*</b>	36	0,2	2	8	B	<b>850,-</b>	963-128	88,-
<b>IKT 36K0.2L</b>	36	0,2	2	10	C	<b>1050,-</b>	963-128	88,-
<b>IKT 60K0.2L</b>	60	0,2	2	10	C	<b>1120,-</b>	963-129	105,-
<b>IKT 65K0.5L</b>	65	0,5	5	10	C	<b>1050,-</b>	963-129	105,-
<b>IKT 100K0.5L</b>	100	0,5	5	10	C	<b>1150,-</b>	963-129	105,-
<b>IKT 150K1L</b>	150	1	10	10	C	<b>1150,-</b>	963-129	105,-

! \*ONLY WHILE STOCKS LAST



KERN easytouch platform scale – the intuitive way to weight – now also as high resolution version with high-resolution display



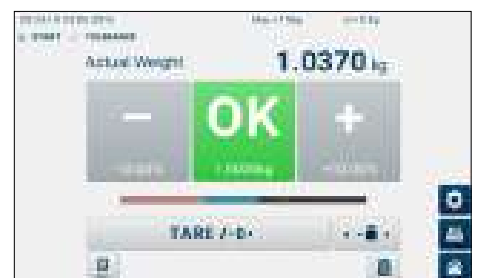
**Convenient piece-counting function**

Standard use: Direct input of the reference quantity or the reference weight  
 Professional use: Recall of items to be counted from the database with all relevant additional data such as piece weight, name, reference quantity, tare container weight, tolerances. Which means a super-fast sequence when counting: select item – load – count – done!



**Fill-to-target function**

Programmable target quantity or target weight. A signal will be displayed when the target value is reached



**Convenient weighing with tolerance range (Checkweighing)**

Standard use: Direct input of the tolerances in grams or percent  
 Professional use: Recall of items from the database with all relevant additional data such as piece weight, name, reference quantity, tare container weight, tolerances. That leads to a super-fast sequence when portioning, dosing or sorting: Select item – load – check – done!



**Features**

- **High-quality, rapid processors** allow efficient, delay-free operation
- Thanks to the **intuitive touchscreen concept** and multi-lingual operation (DE, GB, FR, IT, ES, PT, NL, FI, PL, RUS, SE, CZ) the balance can be used easily by inexperienced users, straightaway. For the professional user, the balance provides convenient functions which permit a high level of individualisation and which thereby make operation significantly easier and quicker.
- Through a **large memory (256 MB)**, e.g. for item master data, weighing data etc. the balance is the ideal solution when working with a large range of goods or where there are high requirements for record keeping and documentation
- **1** Thanks to the high level of **connectivity** it is easy to connect USB sticks for data storage or data transfer to PCs, scales and networks using RS-232 or USB. This means that this range can be used for many different functions in Industry 4.0 applications
- **Convenient recipe weighing**  
Standard use: Direct input of the recipe ingredients in grams or percent Professional use: Recall of items from the database with all relevant additional data such as target value, tolerances, name, tare container weight. That leads to a super-fast sequence when recipe-weighing:  
select recipe – weigh – done!

- A graphic signal helps when dosing individual recipe ingredients. An information column on the lefthand edge of the screen allows you to see at a glance which ingredients have already been weighed (proportionately).
- **Multiplier function:** recipes and their ingredients can be multiplied at will at the press of a button, which is ideal for the production of larger containers, bulk packs etc.
- **2 Platform:** weighing plate stainless steel, painted steel base, silicone-coated aluminium load cell, protection against dust and water splashes IP65

**Technical data**

- Large backlit LCD touch display, digit height 12 mm, screen diagonal 7" (155×85 mm)
- Weighing plate dimensions W×D×H, stainless steel
  - A** 300×240×100 mm
  - B** 400×300×128 mm, see larger picture
  - C** 500×400×137 mm
  - D** 650×500×142 mm
- Dimensions of display device, W×D×H 252×152×133 mm
- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C

**Accessories**

- **Stand** to be screwed onto the platform, height of stand approx. 600 mm, KERN SFB-A01, **€ 80,-**
- **Stand** to elevate display device, height of stand approx. 800 mm, KERN BFS-A07, **€ 120,-**
- **Rechargeable battery pack internal**, operating time up to 80 h without backlight, charging time approx. 12 h, must be ordered at purchase, KERN GAB-A04, **€ 40,-**
- **Software** for rapid and easy processing of the database at the PC (exporting, processing, importing), KERN SET-1.0, **€ 150,-**

STANDARD



OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option	
								DAkKS KERN	Calibr. Certificate €
IFT 6K-4	6	0,2	0,2	± 0,6	6	A	850,-	963-128	88,-
IFT 10K-4	15	0,5	0,5	± 1,5	6	A	850,-	963-128	88,-
IFT 10K-4L	15	0,5	0,5	± 1,5	9	B	890,-	963-128	88,-
IFT 30K-3	30	1	1	± 3	9	B	890,-	963-128	88,-
IFT 60K-3	60	2	2	± 6	9	B	890,-	963-129	105,-
IFT 60K-3L	60	2	2	± 6	14	C	960,-	963-129	105,-
IFT 100K-3	150	5	5	± 15	14	C	960,-	963-129	105,-
IFT 100K-3L	150	5	5	± 15	22	D	1190,-	963-129	105,-
IFT 300K-2L	300	10	10	± 30	22	D	1190,-	963-129	105,-

**1** ONLY WHILE STOCKS LAST!

## Floor scales/Pallet scales/Drive-through scales

### Robust aid for weighing large loads

KERN offers a carefully coordinated range from affordable entry level models, to practical built-in solutions, up to the top level verified models made of stainless steel. Their common feature is the long-lasting industrial quality as well as the high level of protection against dust and spray.

The installation, startup, and possible verification of floor, pallet, and drive-through scales require specialised knowledge, which is the basis for a successful sale. Please ask for our "Floor scale info sheet".

### High-capacity scales – ideal for piece counting with large item quantities

The weighing ranges of bench counting scales are often not sufficient to count large quantities, units, palletised items etc. This is where high-performance counting systems are employed as these combine a high-precision reference balance with a high-capacity bulk scale, such as e.g. floor scales, pallet scales or drive-through scales. Your personal KERN customer consultant will be happy to help you setting up the right high-capacity counting system.

### Individuality is the trump card – we create your ideal scale!

Do you have any special requests, which are not covered by our extensive floor scale range? Then why not configure your ideal model yourself, it's quick, individual and affordable.

Of course we can also offer you the complete service and put the required scale combination together for you, including verification. All further details can be found from page 137 ff. or ask your personal customer service agent, he will be pleased to advise you



**Florian Bächle**

Product specialist Floor scales/  
Pallet scales/Drive-through scales  
Tel. +49 7433 9933-118  
Fax +49 7433 9933-29118  
florian.baechle@kern-sohn.com

**from €**  
**750,-**

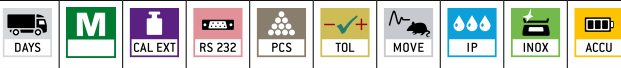
- ▷ High-resolution floor scale with 2 x 3000 [d]
- ▷ Massive steel weighing bridge with IP67 protection
- ▷ Optimised price performance ratio

**Proof of compatibility**  
**Conformity evaluation**  
**Conformity declaration**

# HIGHLIGHT



# Quick-Finder Floor scales/Pallet scales/Drive-through scales

Readability [d] g	Weighing capacity [Max] kg	Weighing plate WxDxH mm	Model  KERN	Price excl. of VAT ex works €	Page	 For an explanation on the pictos, see front flap									
						DAYS	M	CAL EXT	RS 232	PCS	TOL	MOVE	IP	INOX	ACCU
100	300	1050x1050x100	MWB 300K-1	690,-	123	2			●					●	
100   200	300   600	1000x1000x108	BIC 600K-1S	750,-	115	2			●					●	
100   200	300   600	1200x1500x108	BIC 600K-1	990,-	115	2			●					●	
100   200	300   600	1000x1000x108	BID 600K-1DSM	1090,-	116	2	○	●	●	●		●			
100   200	300   600	1200x1500x108	BID 600K-1DM	1320,-	116	2	○	●	●	●		●			
100   200	300   600	1195x840x110	UID 600K-1DM	960,-	126	2	○	●	●	●	●	●		●	
200	600	1000x1000x108	BID 600K-1SM	1020,-	116	2	○	●	●	●		●			
200	600	1200x1500x108	BID 600K-1M	1250,-	116	2	○	●	●	●		●			
200	600	1000x1000x85	BFB 600K-1SNM	1100,-	118	2	○	●	●	●		●			○
200	600	1500x1250x85	BFB 600K-1NM	1490,-	118	2	○	●	●	●		●			○
200	600	1000x1000x85	BFA 600K-1SNM	1160,-	120	2	○	●	○	●		●	●		○
200	600	1500x1250x85	BFA 600K-1NM	1580,-	120	2	○	●	○	●		●	●		○
200	600	1000x1000x80	BFN 600K-1SM	2450,-	121	2	○	●	○	●		●	●		○
200	600	1000x1000x80	BXS 600K-1SM	1490,-	122	2	○	●	○	●		●	●		○
200	600	1500x1250x80	BXS 600K-1M	1700,-	122	2	○	●	○	●		●	●		○
200	600	800x120x100	UFA 600K-1S	880,-	124	2		●	●	●		●			○
200	600	1195x840x110	UID 600K-1M	920,-	126	2	○	●	●	●	●	●		●	
200	600	1190x840x90	UFB 600K200M	950,-	127	2	○	●	●	●		●			○
200	600	1195x840x110	UIB 600K-1	760,-	128	2		●	●	●		●			○
200	600	840x1300x90	UFN 600K200IPM	1290,-	129	2	○	●	○	●		●	●		○
200	600	1600x1200x80	NFB 600K200M	1450,-	130	2	○	●	●	●		●			○
200	600	1800x1400x80	NFB 600K200LM	1650,-	130	2	○	●	●	●		●			○
200	600	1600x1200x80	NFN 600K-1M	2750,-	131	2	○	●	○	●		●	●		○
200   500	600   1500	1000x1000x108	BIC 1T-4S	750,-	115	2		●						●	
200   500	600   1500	1200x1500x108	BIC 1T-4	990,-	115	2		●						●	
200   500	600   1500	1000x1000x108	BID 1T-4DSM	1090,-	116	2	○	●	●	●		●			
200   500	600   1500	1200x1500x108	BID 1T-4DM	1350,-	116	2	○	●	●	●		●			
200   500	600   1500	1195x840x110	UID 1500K-1DM	960,-	126	2	○	●	●	●	●	●		●	
500	1500	1000x1000x108	BID 1T-4SM	1020,-	116	2	○	●	●	●		●			
500	1500	1200x1000x108	BID 1T-4EM	1120,-	116	2	○	●	●	●		●			
500	1500	1200x1500x108	BID 1T-4M	1280,-	116	2	○	●	●	●		●			
500	1500	1500x1500x108	BID 1T-4LM	1490,-	116	2	○	●	●	●		●			
500	1500	1000x1000x100	BFB 1T-4SNM	1100,-	118	2	○	●	●	●		●			○
500	1500	1500x1250x90	BFB 1T-4NM	1490,-	118	2	○	●	●	●		●			○
500	1500	1000x1000x95	BFA 1T-4SNM	1170,-	120	2	○	●	○	●		●	●		○
500	1500	1500x1250x85	BFA 1T-4NM	1580,-	120	2	○	●	○	●		●	●		○
500	1500	1000x1000x80	BFN 1T-4SM	2450,-	121	2	○	●	○	●		●	●		○
500	1500	1500x1250x80	BFN 1.5T0.5M	3050,-	121	2	○	●	○	●		●	●		○
500	1500	1000x1000x80	BXS 1.5T-4SM	1350,-	122	2	○	●	○	●		●	●		○
500	1500	1200x120x100	UFA 1.5T0.5	870,-	124	2		●	●	●		●			○
500	1500	1195x840x110	UID 1500K-1M	920,-	126	2	○	●	●	●	●	●		●	
500	1500	1190x840x90	UFB 1.5T0.5M	950,-	127	2	○	●	●	●		●			○
500	1500	1195x840x110	UIB 1.5T-4	760,-	128	2		●	●	●		●			○
500	1500	840x1360x90	UFC 1T-1M	990,-	128	2	○	●	○	●		●			○
500	1500	840x1300x90	UFN 1.5T0.5IPM	1590,-	129	2	○	●	○	●		●	●		○
500	1500	1600x1200x80	NFB 1.5T0.5M	1350,-	130	2	○	●	●	●		●			○
500	1500	1800x1400x80	NFB 1.5T0.5LM	1650,-	130	2	○	●	●	●		●			○
500	1500	1600x1200x80	NFN 1.5T-4M	2980,-	131	2	○	●	○	●		●	●		○
500   1000	1500   3000	1200x1500x108	BIC 3T-3	990,-	115	2		●						●	
500   1000	1500   3000	1500x1500x108	BIC 3T-3L	1200,-	115	2		●						●	
500   1000	1500   3000	1200x1500x108	BID 3T-3DM	1360,-	116	2	○	●	●	●		●			
500   1000	1500   3000	1500x1500x108	BID 3T-3DLM	1520,-	116	2	○	●	●	●		●			
500   1000	1500   3000	1195x840x110	UID 3000K-0DM	960,-	126	2	○	●	●	●	●	●		●	
1000	3000	1200x1500x108	BID 3T-3M	1290,-	116	2	○	●	●	●		●			
1000	3000	1500x1500x108	BID 3T-3LM	1470,-	116	2	○	●	●	●		●			
1000	3000	1500x1250x85	BFB 3T-3NM	1490,-	118	2	○	●	●	●		●			○
1000	3000	1500x1500x80	BFB 3T1LM	1700,-	118	2	○	●	●	●		●			○
1000	3000	1500x1250x85	BFA 3T-3NM	1580,-	120	2	○	●	○	●		●	●		○
1000	3000	1500x1500x85	BFA 3T-3LM	1780,-	120	2	○	●	○	●		●	●		○
1000	3000	1500x1250x80	BFN 3T-3M	3050,-	121	2	○	●	○	●		●	●		○
1000	3000	1500x1250x80	BXS 3T-3M	1700,-	122	2	○	●	○	●		●	●		○
1000	3000	1200x120x100	UFA 3T1	890,-	124	2		●	●	●		●			○
1000	3000	1200x120x100	UFA 3T-3L	1050,-	124	2		●	●	●		●			○
1000	3000	1195x840x110	UID 3000K-0M	920,-	126	2	○	●	●	●	●	●		●	
1000	3000	1195x840x110	UIB 3T-3	760,-	128	2		●	●	●		●			○
2000	6000	1500x1500x130	BFB 6T-3M	1980,-	118	2	○	●	●	●		●			○
2000	6000	1500x1500x130	BFA 6T-3M	2040,-	120	2	○	●	○	●		●	●		○
2000	6000	1200x160x100	UFA 6T-3	1190,-	124	2		●	●	●		●			○
2000	6000	1200x160x100	UFA 6T-3L	1490,-	124	2		●	●	●		●			○



“

**F**rom goods receipt to production and shipping – KERN floor scales, pallet truck scales and crane scales can be used anywhere and are intuitive to use. With numerous clever functions they will help you to fulfil the increased demands of Industry 4.0 and carry out your processes in a more effective manner, with better use of resources.

”

*Florian Bächle,  
Product Specialist Industrial scales*



High resolution floor scale with 2×3000 [d] and the best price to performance ratio

**Features**

- **Weighing bridge:** out of anti-slip corrugated steel, 4 silicone-coated steel load cells, versatile supported, therefore especially shock absorbent, even against transverse forces, dust and spray protection IP67
- **Welded platform** with screw holes to lift the balance for easy cleaning
- **Easy levelling of the weighing bridge** as well as **access to the junction box** from above
- **Simple and convenient 4-key operation**
- **Wall mount** for display device, standard
- A clever **plug-in connector** means that you can easily separate the display device and the platform, e.g. for installing the balance in a packing and dispatch bench, pit frame etc. at a later date
- **Did you know?** Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN – always one step ahead

**Technical data**

- Large LCD display, digit height 25 mm
- Weighing plate dimensions W×D×H
  - A** 1000×1000×108 mm
  - B** 1200×1500×108 mm
  - C** 1500×1500×108 mm
- Dimensions of display device W×D×H 235×114×51 mm
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 60 h
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

**Accessories**

- **Protective working cover** over display device, delivery quantity: 5 items, KERN EOB-A02S05, **€ 40,-**
- **Pair of base plates** to fix the weighing bridge to the floor, KERN BIC-A07, **€ 40,-**
- **Ascending ramp**, steel, powder coated, not included, for models with weighing plate size
  - A** 1000×1000×108 mm, KERN BIC-A01, **€ 350,-**
  - B** 1200×1000×108 mm, KERN BIC-A02, **€ 380,-**
  - C** 1500×1000×108 mm, KERN BIC-A03, **€ 465,-**
- **Stable pit frame**, steel, powder coated, for models with weighing plate size
  - A** 1088×1088×110 mm, KERN BIC-A04, **€ 300,-**
  - B** 1288×1588×110 mm, KERN BIC-A05, **€ 335,-**
  - C** 1588×1588×110 mm, KERN BIC-A06, **€ 355,-**

STANDARD

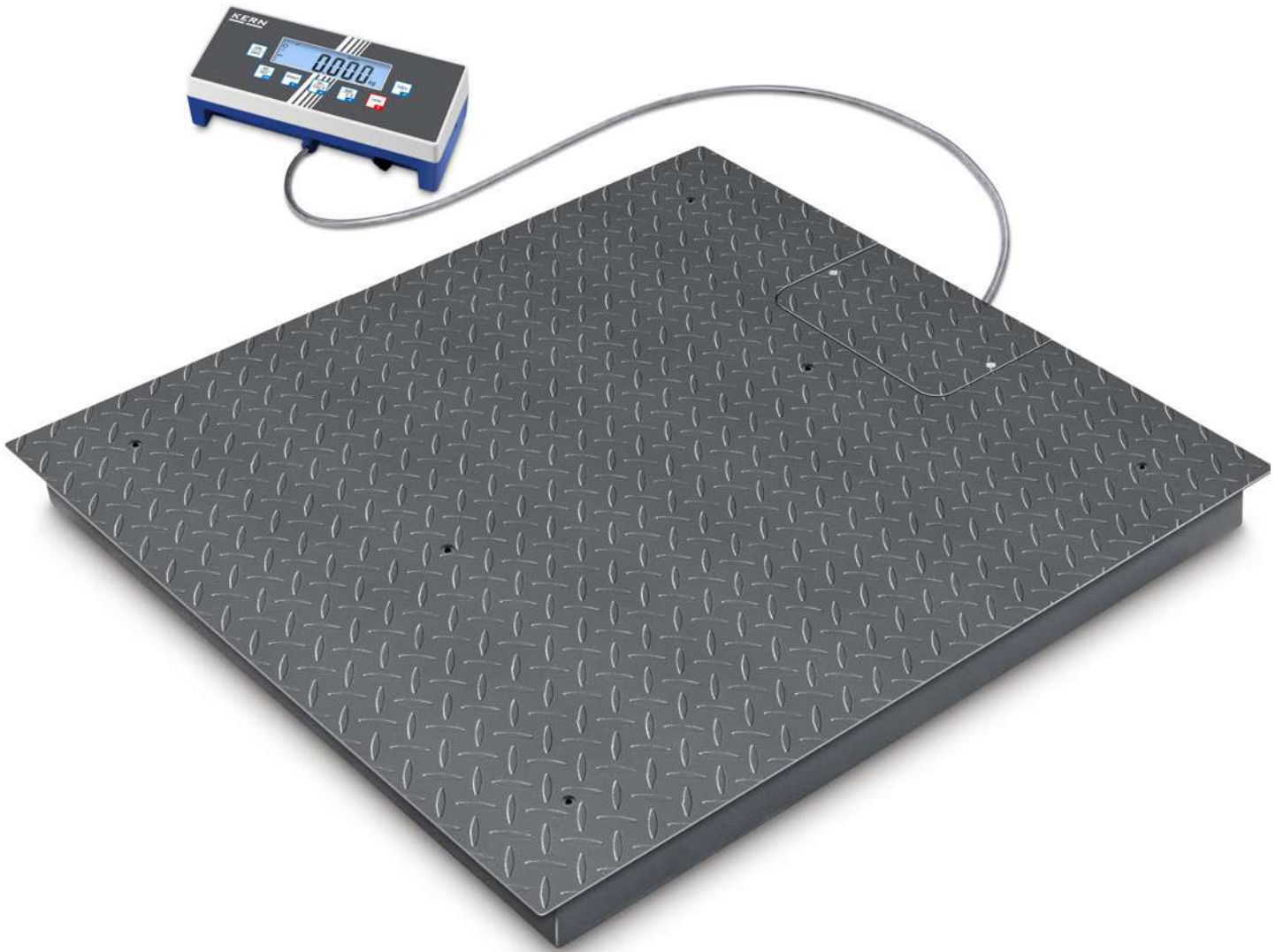
CAL EXT UNIT IP 67 BATT MULTI DMS 2 DAYS

OPTION

DAKKS +3 DAYS

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

Model	Weighing capacity [Max] kg	Readability [d] kg	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option	
						DAKKS KERN	DAKKS Calibr. Certificate €
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readability [d]							
BIC 600K-1S	300   600	0,1   0,2	70	A	750,-	963-130	165,-
BIC 600K-1	300   600	0,1   0,2	150	B	990,-	963-130	165,-
BIC 1T-4S	600   1500	0,2   0,5	150	A	750,-	963-130	165,-
BIC 1T-4	600   1500	0,2   0,5	70	B	990,-	963-130	165,-
BIC 3T-3	1500   3000	0,5   1	150	B	990,-	963-132	440,-
BIC 3T-3L	1500   3000	0,5   1	150	C	1200,-	963-132	440,-



10

Floor scale with EC type approval [M]\* and the best price-to-performance ratio – now also as a high-resolution dual-range scale



**Did you know?**

Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN – always one step ahead



**3 Access ramp incl. pair of base plates** to facilitate access of e.g. wire cage trolleys, shelf trolleys, container trolleys, storage trolleys, sack trucks, transpallets, mobile containers, containers refuse etc.



**4 Stable pit frame**, to install the weighing bridge so you can drive straight on

**Features**

- **BID-D: Dual-range floor scales**, ideal, when high maximum loads need to be weighed, but in the lower load range you still need high resolution. This means that two balances can be replaced with one – which saves space and money!
- **BID 1T-4EM:** Compact special size, especially for weighing europallets
- **1 Weighing bridge:** out of anti-slip corrugated steel, 4 silicone-coated steel load cells, dust and spray protection IP67
- **Welded platform** with screw holes to lift the balance for easy cleaning
- **Easy levelling of the weighing bridge** as well as **access to the junction box** from above
- **2 Display device:** for details see KERN KIB-TM
- **Totalising** of weights and piece counts
- Thanks to **interfaces** such as RS-232 or USB, WiFi, Bluetooth, Ethernet (optional), the scale can easily be connected to existing networks. Data exchange between the scale, PC or printer
- **Searching and remote control of the balance** using external control devices or computers with the KERN Communication Protocol (KCP). KCP is a standardised interface command structure for KERN balances and other instruments which allows you to recall and manage all relevant parameters and device functions. You can therefore simply connect KERN devices with KCP to computers, industrial control systems and other digital systems. In a large number of cases the KCP is compatible with the MT-SICS protocol. Only possible through data interface RS-232, other interfaces on request

**Technical data**

- Large LCD display, digit height 25 mm
- Weighing plate dimensions WxDxH
  - A 1000x1000x108 mm
  - B 1200x1000x108 mm
  - C 1200x1500x108 mm
  - D 1500x1500x108 mm
- Dimensions of display device WxDxH 268x115x80 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

**Accessories**

- **Protective working cover**, scope of delivery: 5 items, KERN EOC-A01S05, **€ 40,-**
- **Pair of base plates** to fix the weighing bridge to the floor, KERN BIC-A07, **€ 40,-**
- **3 Ascending ramp**, steel, powder coated, for models with weighing plate size
  - A, B KERN BIC-A01, **€ 350,-**
  - C KERN BIC-A02, **€ 380,-**
  - D KERN BIC-A03, **€ 465,-**
- **4 Stable pit frame**, steel, powder coated, to install the weighing bridge so you can drive straight on, for models with weighing plate size
  - A KERN BIC-A04, **€ 300,-**
  - B KERN BIC-A08, **€ 330,-**
  - C KERN BIC-A05, **€ 335,-**
  - D KERN BIC-A06, **€ 355,-**
- **Benchtop stand incl. wall mount** for display device, **Benchtop stand incl. wall mount** for display device, KERN EOC-A04, **€ 30,-**
- **Rechargeable battery pack internal**, operating time up to 43 h without backlight, charging time approx. 3 h, KERN KFB-A01, **€ 35,-**
- **USB data interface**, for transferring weighing to the PC, printer, not possible in combination with verification, KERN KIB-A03, **€ 120,-**

- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase, KERN KIB-A04, **€ 110,-**
- **WiFi interface** for wireless connection of the balance to networks and WiFi capable devices, such as tablets, laptops or smartphones, must be ordered at purchase, please ask for delivery time, KERN KIB-A10, **€ 55,-**
- **Ethernet data interface**, to connect an IP-based Ethernet network, must be ordered at purchase, not in combination with verification, KERN KIB-A02, **€ 150,-**
- **Signal lamp, including interface**, for visual support of weighing with tolerance range, Factory Option, KERN KIB-A06, **€ 320,-**
- **Alibi memory**, including USB interface for exporting weighing results to external data media such as USB sticks, hard disks, etc. Not in connection with calibration, KERN KIB-A01, **€ 95,-**
- **Verification plug**, for verified balances this enables you to separate the display device and platform without affecting the verification, e.g. for installing the scale in a packing and dispatch table, pit frame etc. at a later date. Please order this at the same time as you purchase your scale, KERN KIB-A12, **€ 80,-**

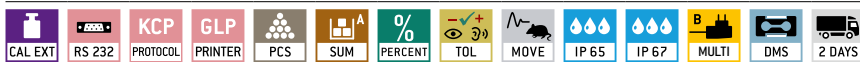
**Note:**

For verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame

In addition to the RS-232 data interface, which is integrated as standard, only one other data interface can be installed and operated

1 Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max] kg	Readability = Verification value [d] = [e] kg	Minimal load [Min] kg	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option			
							Verification		DAkKS Calibr. Certificate	
KERN						€	€	DAkKS KERN	€	
BID 600K-1SM	600	0,2	4	130	A	1020,-	965-230	132,-	963-130	165,-
BID 600K-1M	600	0,2	4	150	C	1250,-	965-230	132,-	963-130	165,-
BID 1T-4SM	1500	0,5	10	130	A	1020,-	965-230	132,-	963-130	165,-
BID 1T-4M	1500	0,5	10	75	C	1280,-	965-230	132,-	963-130	165,-
BID 1T-4EM	1500	0,5	10	65	B	1120,-	965-230	132,-	963-130	165,-
BID 1T-4LM	1500	0,5	10	80	D	1490,-	965-230	132,-	963-130	165,-
BID 3T-3M	3000	1	20	150	C	1290,-	965-232	200,-	963-132	440,-
BID 3T-3LM	3000	1	20	150	D	1470,-	965-232	200,-	963-132	440,-
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readability [d]										
BID 600K-1DSM	300   600	0,1   0,2	4	130	A	1090,-	965-230	132,-	963-130	165,-
BID 600K-1DM	300   600	0,1   0,2	4	150	C	1320,-	965-230	132,-	963-130	165,-
BID 1T-4DSM	600   1500	0,2   0,5	10	130	A	1090,-	965-230	132,-	963-130	165,-
BID 1T-4DM	600   1500	0,2   0,5	10	150	C	1350,-	965-230	132,-	963-130	165,-
BID 3T-3DM	1500   3000	0,5   1	20	150	C	1360,-	965-232	200,-	963-132	440,-
BID 3T-3DLM	1500   3000	0,5   1	20	150	D	1520,-	965-232	200,-	963-132	440,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

**NEW** New model

\* Verification not in combination with KERN KIB-A02, KIB-A03, KIB-A04, KIB-A10



10

Weighing bridge with screwed-on weighing plate (IP67) and XXL display device, with EC type approval [M]



**Weighing plate can be unscrewed**  
The weighing plate can be conveniently unscrewed for maintenance or cleaning purposes (weighing plate size **A**, **B**)



**Easy levelling of the weighing bridge as well as access to the junction box from above**



**Did you know?** Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN – always one step ahead



**Features**

- **Weighing plate** **A**, **B** **screwed on from the top**, so it's easy to remove, hygienic and easy to clean
- **1 Weighing bridge**: steel, painted, weighing plate size **C**, **D** corrugated steel plate, welded, 4 silicone-coated steel load cells, dust and spray protection IP67
- **Display device**: for details see KERN KFB-TM
- **Benchtop stand incl. wall mount** for display device as standard
- **Totalising** of weights and piece counts
- **Protective working cover** included with delivery

**Technical data**

- Large backlit LCD display, digit height 52 mm
- Weighing plate dimensions W×D×H
  - A** 1000×1000×85 mm
  - B** 1500×1250×85 mm
  - C** 1500×1500×80 mm
  - D** 1500×1500×130 mm
- Dimensions of display device W×D×H 250×160×58 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

**Accessories**

- **Protective working cover**, scope of delivery: 5 items, KERN KFB-A02S05, **€ 40,-**
- **2 Stand** to elevate display device, height of stand approx. 800 mm, KERN BFS-A07, **€ 120,-**
- **Pair of base plates** to fix the weighing bridge to the floor, for models with weighing plate size
  - A**, **B**, **C** KERN BFS-A06N, **€ 70,-**
  - D** KERN BFS-A10, **€ 60,-**
- **3 Ascending ramp**, steel, lacquered, not included, for models with weighing plate size
  - A** KERN BFS-A01N, **€ 310,-**
  - B** KERN BFS-A02N, **€ 350,-**
  - C** KERN BFS-A09N, **€ 460,-**
  - D** KERN BFS-A11, **€ 500,-**
- **4 Stable pit frame**, steel, lacquered, for models with weighing plate size
  - A** KERN BFS-A03N, **€ 310,-**
  - B** KERN BFS-A04N, **€ 370,-**
  - C** KERN BFS-A08, **€ 365,-**
- **Rechargeable battery pack internal**, operating time up to 35 h without backlight, charging time approx. 10 h, must be ordered at purchase, KERN KFB-A01, **€ 35,-**

- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification, not possible in combination with RS-232 data interface, KERN KFB-A03, **€ 130,-**
- **Analogue module**, must be ordered at purchase, not possible in combination with signal lamp 0-10 V: KERN KFB-A04, **€ 95,-**  
4-20 mA: KERN KFB-A05, **€ 95,-**
- **Signal lamp** for visual support of weighing with tolerance range, KERN CFS-A03, **€ 250,-**
- **Large display with superior display size**, KERN YKD-A02, **€ 220,-**
- **Cable with special length** 15 m, between display device and platform, for verified models which must be ordered at the time of purchase, KERN BFB-A03, **€ 160,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

**Note:** For verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame

**1** Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

STANDARD: CAL EXT, RS 232, KCP, PCS, SUM, TOL, MOVE, IP 67, MULTI, DMS, 2 DAYS

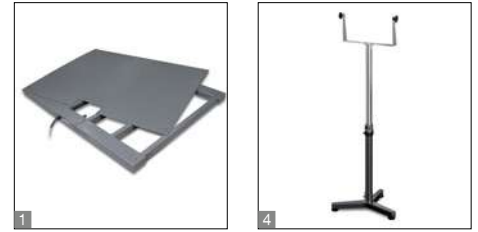
OPTION: DAKKS, +3 DAYS

FACTORY: BT 2.0, ANALOG, ACCU, +3 DAYS

Model	Weighing capacity [Max] kg	Readability = Verification value [d] = [e] kg	Minimal load [Min] kg	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option			
							Verification		DAkkS Calibr. Certificate	
							M	€	DAkkS	€
<b>BFB 600K-1SNM</b>	600	0,2	4	105	<b>A</b>	<b>1100,-</b>	965-230	132,-	963-130	165,-
<b>BFB 600K-1NM</b>	600	0,2	4	135	<b>B</b>	<b>1490,-</b>	965-230	132,-	963-130	165,-
<b>BFB 1T-4SNM</b>	1500	0,5	10	100	<b>A</b>	<b>1100,-</b>	965-230	132,-	963-130	165,-
<b>BFB 1T-4NM</b>	1500	0,5	10	135	<b>B</b>	<b>1490,-</b>	965-230	132,-	963-130	165,-
<b>BFB 3T-3NM</b>	3000	1	20	135	<b>B</b>	<b>1490,-</b>	965-232	200,-	963-132	440,-
<b>BFB 3T1LM</b>	3000	1	20	155	<b>C</b>	<b>1700,-</b>	965-232	200,-	963-132	440,-
<b>BFB 6T-3M</b>	6000	2	40	210	<b>D</b>	<b>1980,-</b>	965-232	200,-	963-132	440,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

Price reduction



## Weighing bridge with screwed-on weighing plate (IP67) and stainless steel display device (IP68), with EC type approval [M]

### Features

- **Tough industry standard** suitable for use in harsh industrial applications
- **1 Weighing plate A, B screwed on from the top**, so it's easy to remove, hygienic and easy to clean
- **2 Weighing bridge:** steel, painted, weighing plate size C, D corrugated steel plate, welded, 4 silicone-coated steel load cells, dust and spray protection IP67. Weighing bridge can also be delivered as component without the display device, for details see KERN KFP-V20 IP67
- **Easy levelling of the weighing bridge** as well as **access to the junction box** from above
- **3 Display device:** stainless steel, protection against dust and water splashes IP65
- **Benchtop stand incl. wall mount** for display device as standard

### Technical data

- Large backlit LCD display, digit height 52 mm
- Weighing plate dimensions W×D×H
  - A 1000×1000×85 mm
  - B 1500×1250×85 mm
  - C 1500×1500×80 mm
  - D 1500×1500×130 mm
- Dimensions of display device W×D×H 266×165×96 mm
- Cable length of display device approx. 5 m
- **Rechargeable battery pack internal**, operating time up to 35 h without backlight, charging time approx. 12 h
- Permissible ambient temperature -10 °C/40 °C

### Accessories

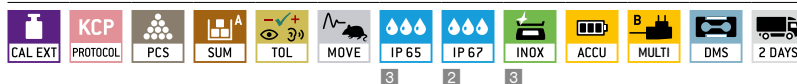
- **4 Stand** to elevate display device, height of stand approx. 800 mm, KERN BFS-A07, € 120,-

- **Pair of base plates** to fix the weighing bridge to the floor, for models with weighing plate size
  - A, B, C KERN BFS-A06N, € 70,-
  - D KERN BFS-A10, € 60,-
- **Ascending ramp**, steel, lacquered, for models with weighing plate size
  - A KERN BFS-A01N, € 310,-
  - B KERN BFS-A02N, € 350,-
  - C KERN BFS-A09, € 410,-
  - D KERN BFS-A11, € 500,-
- **Stable pit frame**, steel, lacquered, for models with weighing plate size
  - A KERN BFS-A03N, € 310,-
  - B KERN BFS-A04N, € 370,-
  - C KERN BFS-A08, € 365,-
  - D KERN BFS-A12, € 650,-
- **Rechargeable battery pack internal**, operating time up to 35 h without backlight, charging time approx. 12 h, KERN GAB-A04, € 40,-
- **Data interface RS-232**, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KFN-A01, € 95,-
- **Large display with superior display size**, only in combination with data interface KFN-A1, KERN YKD-A02, € 220,-
- **Cable with special length** 15 m, between display device and platform, for verified models which must be ordered at the time of purchase, KERN BFB-A03, € 160,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

**Note:** For verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame

**!** Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

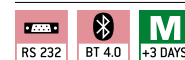
#### STANDARD



#### OPTION



#### FACTORY



Model	Weighing capacity [Max] kg	Readability = Verification value [d] = [e] kg	Minimal load [Min] kg	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option			
							Verification		DAkkS Calibr. Certificate	
							M III KERN	€	DAkkS KERN	€
BFA 600K-1SNM	600	0,2	4	105	A	1160,-	965-230	132,-	963-130	165,-
BFA 600K-1NM	600	0,2	4	135	B	1580,-	965-230	132,-	963-130	165,-
BFA 1T-4SNM	1500	0,5	10	100	A	1170,-	965-230	132,-	963-130	165,-
BFA 1T-4NM	1500	0,5	10	135	B	1580,-	965-230	132,-	963-130	165,-
BFA 3T-3NM	3000	1	20	135	B	1580,-	965-232	200,-	963-132	440,-
BFA 3T-3LM	3000	1	20	160	C	1800,-	965-232	200,-	963-132	440,-
BFA 6T-3M	6000	2	40	210	D	2040,-	965-232	200,-	963-132	440,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

**!** ONLY WHILE STOCKS LAST





**Stainless steel weighing bridge with screwed-on weighing plate (IP68) and stainless steel display device (IP65), with EC type approval [M]**

**Features**

- **Tough industry standard** suitable for use in harsh industrial applications
- **Weighing plate screwed on from the top**, with stainless steel screws, so it's easy to remove, hygienic and easy to clean
- **1 Weighing bridge:** stainless steel, extremely resistant to bending due to material thickness, 4 welded stainless steel load cells, dust and spray protection IP68. Weighing bridge can also be delivered as component without the display device, for details see KERN KFP-V40
- Your support in a **HACCP-compliant** quality system
- **Easy levelling of the weighing bridge** as well as **access to the junction box** from above
- **2 Display device:** stainless steel, protection against dust and water splashes IP65, for industrial applications, hygienic and easy to clean, the display device can also be delivered as a component without the weighing bridge, for details see KERN KFN-TM
- **Benchtop stand incl. wall mount** for display device as standard
- **Totalising** of weights and piece counts

- **Rechargeable battery pack internal** included with delivery
- **3 Did you know?** Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN – always one step ahead

**Technical data**

- Large backlit LCD display, digit height 52 mm
- Dimensions of display device WxDxH 266x165x96 mm
- Cable length of display device approx. 5 m
- Weighing plate dimensions WxDxH
  - A** 1000x1000x85 mm
  - B** 1500x1200x80 mm
- **Rechargeable battery pack internal**, operating time up to 35 h without backlight, charging time approx. 12 h
- Permissible ambient temperature -10 °C/40 °C

**Accessories**

- **4 Stand** to elevate display device, height of stand approx. 800 mm, KERN YKP-02, **€ 285,-**
- **Pair of base plates** to fix the weighing bridge to the floor, KERN BFN-A03, **€ 60,-**
- **5 Ascending ramp**, stainless steel, not included, for models with weighing plate size KERN BFN-A05, **€ 1090,-** KERN BFN-A01, **€ 1120,-**
- **6 Stable pit frame**, stainless steel, for models with weighing plate size KERN BFN-A06, **€ 730,-** KERN BFN-A02, **€ 850,-**
- **Data interface RS-232**, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KFN-A01, **€ 95,-**
- **Cable with special length** 15 m, between display device and platform, for verified models which must be ordered at the time of purchase, KERN BFB-A03, **€ 160,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

**Note:** For verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame

**1** Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

STANDARD      OPTION      FACTORY

CAL EXT	PROTOCOL	PCS	SUM	TOL	MOVE	IP 65	IP 68	INOX	ACCU	MULTI	DMS	2 DAYS	DAkKS	RS 232	M
													+3 DAYS	+3 DAYS	+3 DAYS

Model	Weighing capacity [Max] kg	Readability = Verification value [d] = [e] kg	Minimal load [Min] kg	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option			
							Verification		DAkKS Calibr. Certificate	
								€	DAkKS KERN	€
<b>BFN 600K-1SM</b>	600	0,2	4	100	A	<b>2450,-</b>	965-230	132,-	963-130	165,-
<b>BFN 1T-4SM</b>	1500	0,5	10	100	A	<b>2450,-</b>	965-230	132,-	963-130	165,-
<b>BFN 1.5T0.5M</b>	1500	0,5	10	135	B	<b>3050,-</b>	965-230	132,-	963-130	165,-
<b>BFN 3T-3M</b>	3000	1	20	135	B	<b>3050,-</b>	965-232	200,-	963-132	440,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

**1** ONLY WHILE STOCKS LAST      Price reduction



## Weighing bridge with screwed-on weighing plate (IP67) and stainless steel display device (IP68), with EC type approval [M]

### Features

- **Tough industry standard** suitable for use in harsh industrial applications
- **1 Weighing plate screwed on from the top**, so it's easy to remove, hygienic and easy to clean
- **2 Weighing bridge:** steel, painted, extremely resistant to bending due to material thickness, 4 silicone-coated steel load cells, dust and spray protection IP67.
- **Easy levelling of the weighing bridge** as well as **access to the junction box** from above
- **3 Display device:** stainless steel, protection against dust and water splashes IP68, for industrial applications, hygienic and easy to clean, integrated power supply
- **Benchtop stand incl. wall mount** for display device as standard
- **Totalising** of weights and piece counts
- Thanks to **interfaces** such as RS-232, RS-485 and Bluetooth (optional) the scale can easily be connected to existing networks and facilitates the data exchange between the scale and printer

- **4 Did you know?** Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN – always one step ahead

### Technical data

- Large backlit LCD display, digit height 55 mm
- Weighing plate dimensions, steel, painted W×D×H
  - A** 1000×1000×80 mm
  - B** 1500×1250×80 mm
- Dimensions of display device W×D×H 232×170×80 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

### Accessories

- **Stand** to elevate display device, height of stand approx. 750 mm, KERN YKP-02, **€ 190,-**
- **Pair of base plates** to fix the weighing bridge to the floor, KERN BXS-A03, **€ 70,-**

- **Ascending ramp**, steel, lacquered, for models with weighing plate size
  - A** KERN BXS-A01, **€ 350,-**
  - B** KERN BXS-A02, **€ 400,-**
- **Rechargeable battery pack internal**, operating time up to 80 h, without backlight, charging time approx. 12 h, KERN GAB-A04, **€ 40,-**
- **Data interface RS-232**, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KXS-A04, **€ 100,-**
- **Data interface RS-485**, must be ordered at purchase, KERN KXS-A01, **€ 145,-**
- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification, KERN KXS-A02, **€ 170,-**
- **Foot switch**, must be ordered at purchase, KERN KXS-A03, **€ 130,-**
- **Cable with special length** 15 m, between display device and platform, for verified models which must be ordered at the time of purchase, KERN BFB-A03, **€ 160,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

**Note:** For verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame

**1** Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

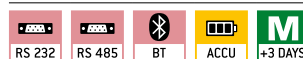
#### STANDARD



#### OPTION



#### FACTORY



Model	Weighing capacity [Max] kg	Readability = Verification value [d] = [e] kg	Minimal load [Min] kg	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option			
							Verification		DAkkS Calibr. Certificate	
KERN							M KERN	€	DAkkS KERN	€
<b>BXS 600K-1SM</b>	600	0,2	4	100	A	<b>1490,-</b>	965-230	132,-	963-130	165,-
<b>BXS 600K-1M</b>	600	0,2	4	145	B	<b>1700,-</b>	965-230	132,-	963-130	165,-
<b>BXS 1.5T-4SM</b>	1500	0,5	10	100	A	<b>1350,-</b>	965-230	132,-	963-130	165,-
<b>BXS 3T-3M</b>	3000	1	20	145	B	<b>1700,-</b>	965-232	200,-	963-132	440,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

**1** ONLY WHILE STOCKS LAST

# Drive-through scale KERN MWB



Compact and robust drive-through scale (IP65) – particularly mobile thanks to handle, castors and low dead weight

### Features

- Drive-through scale for rapid weighing of e.g. wire cage trolleys, shelf trolleys, container trolleys, storage trolleys, sack trucks, mobile containers, containers refuse etc.
- **1 Weighing bridge:** steel, lacquered, 4 silicone-coated aluminium load cells, protection against dust and water splashes IP65
- Secure and non-slip positioning with height-adjustable rubber feet
- **2** Level indicator to level the balance precisely
- **3** The scale can be easily transported using the two handles and two rollers and does not require much storage space
- **Hold function:** When the weighing conditions are unstable, a stable weight is calculated determining an average value
- **Wall mount for the display device,** as standard
- **Protective working cover** included with delivery

### Technical data

- Large backlit LCD display, digit height 25 mm
- Overall dimensions, W×D×H 1050×1050×100 mm
- Platform height in the drive-through area: 50 mm
- Dimensions weighing surface W×D 800×800 mm
- Dimensions of display device W×D×H 200×130×60 mm
- Cable length of display device approx. 3 m
- Batteries included, 6×1,5 V AA, operating time up to 40 h
- Net weight approx. 55 kg

### Accessories

- Protective working cover over the display device, scope of delivery: 5 items, KERN MBC-A06S05, **€ 40,-**

STANDARD					OPTION	
CAL EXT	IP 65	BATT	DMS	2 DAYS	DAkkS	+3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] kg	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate	
				DAkkS KERN	€
MWB 300K-1	300	0,1	<b>690,-</b>	963-129	105,-



## Highly versatile weighing beams (IP67) for large loads to 6 t

### Features

- Flexible solution for weighing large, bulky or long items
- **High mobility:** thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- **1 Weighing beams:** steel, lacquered, 4 silicone-coated aluminium load cells, protection against dust and water splashes IP67, Weighing beams can also be delivered as components without the display device, for details see KERN KFA-V20
- **Sturdy handles** for transporting the weighing beams
- **2** KERN UFA-L: Each weighing beam has a roller and handle for easy transport of the scale
- **Display device:** for details see KERN KFB-TM
- **Benchtop stand incl. wall mount** for display device as standard
- **Totalising** of weights and piece counts
- **Protective working cover** included with delivery

- KERN UFA-S: model with short weighing beams, ideal for weighing compact items or animals in transport boxes
- Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN – always one step ahead

### Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of display device W×D×H 250×160×65 mm
- Cable length of display device approx. 5 m
- Cable length weighing beams approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

### Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN KFB-A02S05, € 40,-

- **3 Stand** to elevate display device, height of stand approx. 800 mm, KERN BFS-A07, € 120,-
- **Rechargeable battery pack internal**, operating time up to 35 h without backlight, charging time approx. 10 h, KERN KFB-A01, € 35,-
- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification, KERN KFB-A03, € 130,-
- Analogue module, must be ordered at purchase, not possible in combination with signal lamp  
0-10 V: KERN KFB-A04, € 95,-  
4-20 mA: KERN KFB-A05, € 95,-
- **4 Signal lamp** for visual support of weighing with tolerance range, not possible in combination with analogue module, KERN CFS-A03, € 250,-
- **5 Large display with superior display size**, KERN YKD-A02, € 220,-
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, € 35,-
- **Cable with special length** 15 m, between display device and platform, for verified models which must be ordered at the time of purchase, KERN BFB-A03, € 160,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

**1** Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

#### STANDARD



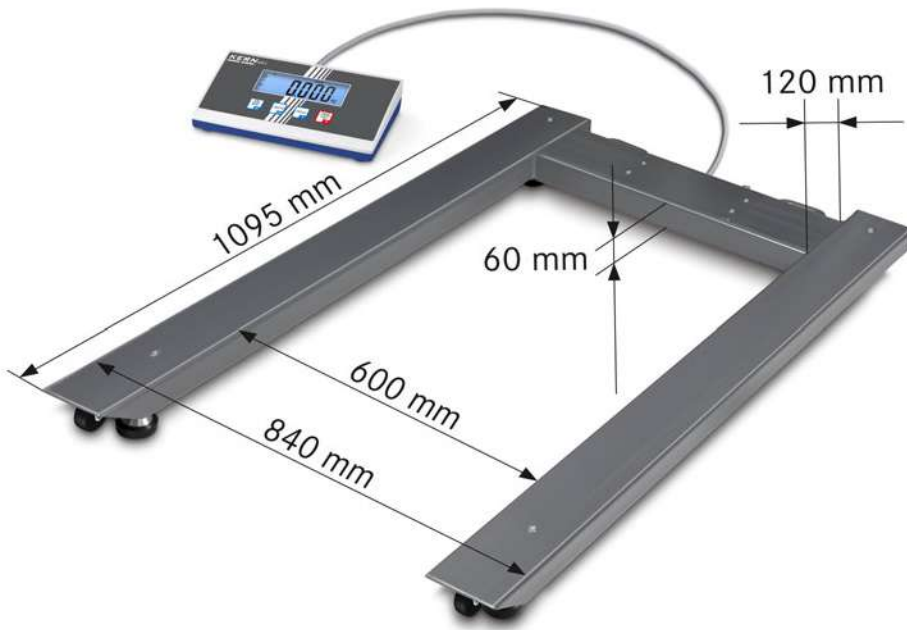
#### OPTION



#### FACTORY



Model	Weighing capacity [Max] kg	Readability [d] kg	Net weight approx. kg	Dimensions Weighing beam W×D×H mm	Price excl. of VAT ex works €	Option	
						DAKKS KERN	Calibr. Certificate €
<b>UFA 600K-1S</b>	600	0,2	36	800×120×85	<b>880,-</b>	963-130	165,-
<b>UFA 1.5T0.5</b>	1500	0,5	38	1200×120×100	<b>870,-</b>	963-130	165,-
<b>UFA 3T1</b>	3000	1	38	1200×120×100	<b>890,-</b>	963-132	440,-
<b>UFA 3T-3L</b>	3000	1	60	2000×160×100	<b>1050,-</b>	963-132	440,-
<b>UFA 6T-3</b>	6000	2	85	1200×160×100	<b>1190,-</b>	963-132	440,-
<b>UFA 6T-3L</b>	6000	2	135	2000×160×100	<b>1490,-</b>	963-132	440,-



Pallet scale with steel load support (IP67) and the best price-to-performance ratio

**Features**

- **High mobility:** thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations
- **1 Load support:** steel, powder coated, 4 silicone-coated aluminium load cells, protection against dust and water splashes IP67
- **2** The scale can be easily transported using **rollers** and a **handle** and does not require much storage space
- **Totalising** of weights and piece counts
- **Protective working cover** included with delivery
- **3** Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN – always one step ahead

**Technical data**

- Large LCD display, digit height 25 mm
- Dimensions of display device W×D×H 235×115×52 mm
- Overall height including adjustable feet 110 mm
- Cable length of display device approx. 5 m
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 60 h
- Net weight approx. 55 kg
- Permissible ambient temperature -10 °C/40 °C

**Accessories**

- **Protective working cover** over the display device, scope of delivery: 5 items, KERN EOB-A04BS05, **€ 40,-**
- **Stand** to elevate display device, height of stand approx. 1000 mm, KERN EOB-A02B, **€ 80,-**

**1** Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

STANDARD

CAL EXT UNIT MOVE IP 67 BATT MULTI DMS 2 DAYS

OPTION

DAKKS +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] kg	Net weight approx. kg	Price excl. of VAT ex works €	Option	
					DAKKS KERN	DAKKS Calibr. Certificate €
KERN UIB 600K-1	600	0,2	55	<b>760,-</b>	963-130	165,-
KERN UIB 1.5T-4	1500	0,5	55	<b>760,-</b>	963-130	165,-
KERN UIB 3T-3	3000	1	55	<b>760,-</b>	963-132	440,-



- Cable length of display device approx. 5 m
- Net weight approx. 55 kg
- Permissible ambient temperature -10 °C/40 °C

**Accessories**

- **Protective working cover**, scope of delivery: 5 items, KERN EOC-A01S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 43 h without backlight, charging time approx. 3 h, KERN KFB-A01, **€ 35,-**
- **USB data interface**, for transferring weighing to the PC, printer, not possible in combination with verification, KERN KIB-A03, **€ 120,-**
- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification, KERN KIB-A04, **€ 110,-**
- **WiFi interface** for wireless connection of the balance to networks and WiFi capable devices, such as tablets, laptops or smartphones, must be ordered at purchase, KERN KIB-A10, **€ 55,-**
- **Ethernet data interface**, to connect an IP-based Ethernet network, must be ordered at purchase, KERN KIB-A02, **€ 150,-**
- **Signal lamp, including interface**, for visual support of weighing with tolerance range, must be ordered at purchase, Factory Option, KERN KIB-A06, **€ 320,-**
- **Alibi memory**, including USB interface for exporting weighing results to external data media such as USB sticks, hard disks, etc. Not in connection with calibration, KERN KIB-A01, **€ 95,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

High resolution dual-range pallet scale with EC type approval [M] and a wide range of data interfaces

**Features**

- **NEW:** Dual-range floor scales, ideal when high maximum loads need to be weighed, but in the lower load range you still need high resolution. This means that two balances can be replaced with one – which saves space and money!
- **High mobility** thanks to battery operation for display device and platform
- **Load support:** steel, powder coated, 4 silicone-coated aluminium load cells, protection against dust and water splashes IP67
- The scale can be easily transported using **rollers** and a **handle** and does not require much storage space
- Thanks to **interfaces** such as RS-232 or USB, WiFi, Bluetooth, Ethernet (optional), the scale can easily be connected to existing networks. Data exchange between the scale, PC or printer

- **Searching and remote control of the balance** using external control devices or computers with the KERN Communication Protocol (KCP). KCP is a standardised interface command structure for KERN balances and other instruments which allows you to recall and manage all relevant parameters and device functions. You can therefore simply connect KERN devices with KCP to computers, industrial control systems and other digital systems. In a large number of cases the KCP is compatible with the MT-SICS protocol. Only possible through data interface RS-232, other interfaces on request
- **Protective working cover** included with delivery

**Technical data**

- Large backlit LCD display, digit height 25 mm
- Dimensions of display device WxDxH 268x115x80 mm
- Overall height including adjustable feet 110 mm

**Note:** In addition to the RS-232 interface, which is integrated as standard, only one other interface can be installed and operated

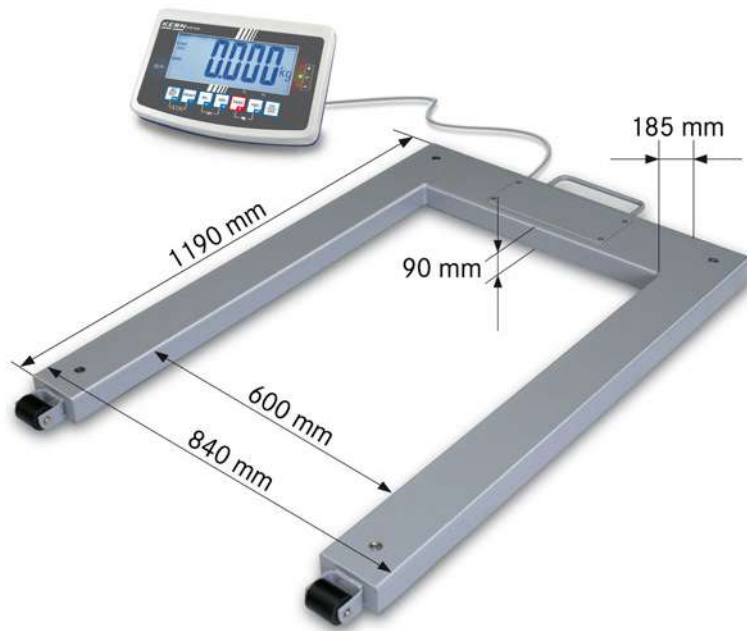
Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

STANDARD										OPTION				FACTORY					
																			*

Model	Weighing capacity [Max] kg	Readability = Verification value [d] = [e] kg	Price excl. of VAT ex works €	Option			
				Verification		DAkkS Calibr. Certificate	
<b>KERN</b>					€	<b>DAkkS</b>	€
<b>UID 600K-1M</b>	600	0,2	<b>920,-</b>	965-230	132,-	963-130	165,-
<b>UID 1500K-1M</b>	1500	0,5	<b>920,-</b>	965-230	132,-	963-130	165,-
<b>UID 3000K-0M</b>	3000	1	<b>920,-</b>	965-232	200,-	963-132	440,-
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readability [d]							
<b>UID 600K-1DM</b>	300   600	0,1   0,2	<b>960,-</b>	965-230	132,-	963-130	165,-
<b>UID 1500K-1DM</b>	600   1500	0,2   0,5	<b>960,-</b>	965-230	132,-	963-130	165,-
<b>UID 3000K-0DM</b>	1500   3000	0,5   1	<b>960,-</b>	965-232	200,-	963-132	440,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

\* Verification not in combination with KERN KIB-A02, KIB-A03, KIB-A04, KIB-A10



## Pallet scale with steel load support (IP67) and EC type approval [M]

### Features

- **High mobility:** thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- **1 Load support:** steel, powder coated, 4 silicone-coated aluminium load cells, protection against dust and water splashes IP67, Weighing bridge can also be delivered as component without the display device, for details see KERN KFU-V20
- Low height of the load fork, ideal for low pallets
- Two wheels for easy transportation of the scale
- **Weighing with tolerance range (check-weighing):** A visual and audible signal assists the rapid checking of items on pallets
- **Totalising** of weights and piece counts
- **Protective working cover** included with delivery
- **2 Did you know?** Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN – always one step ahead

### Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of display device WxDxH 250x160x58 mm
- Overall height including adjustable feet 90 mm
- Cable length of display device approx. 5 m
- Net weight approx. 55 kg
- Permissible ambient temperature -10 °C/40 °C

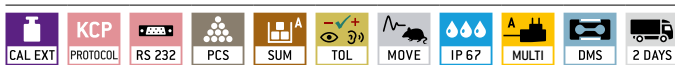
### Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN KFB-A02S05, € 40,-
- **3 Stand** to elevate display device, height of stand approx. 800 mm, **Stand** to elevate display device, height of stand approx. 800 mm, KERN BFS-A07, € 120,-
- **Rechargeable battery pack internal**, operating time up to 35 h without backlight, charging time approx. 12 h, KERN KFB-A01, € 35,-
- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification, KERN KFB-A03, € 130,-

- **Analogue module**, must be ordered at purchase, not possible in combination with signal lamp  
0-10 V: KERN KFB-A04, € 95,-  
4-20 mA: KERN KFB-A05, € 95,-
- **4 Signal lamp** for visual support of weighing with tolerance range, KERN CFS-A03, € 250,-
- **5 Large display with superior display size**, KERN YKD-A02, € 220,-
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, € 35,-
- **Cable with special length** 15 m, between display device and platform, for verified models which must be ordered at the time of purchase, KERN BFB-A03, € 160,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

**1** Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

#### STANDARD



#### OPTION

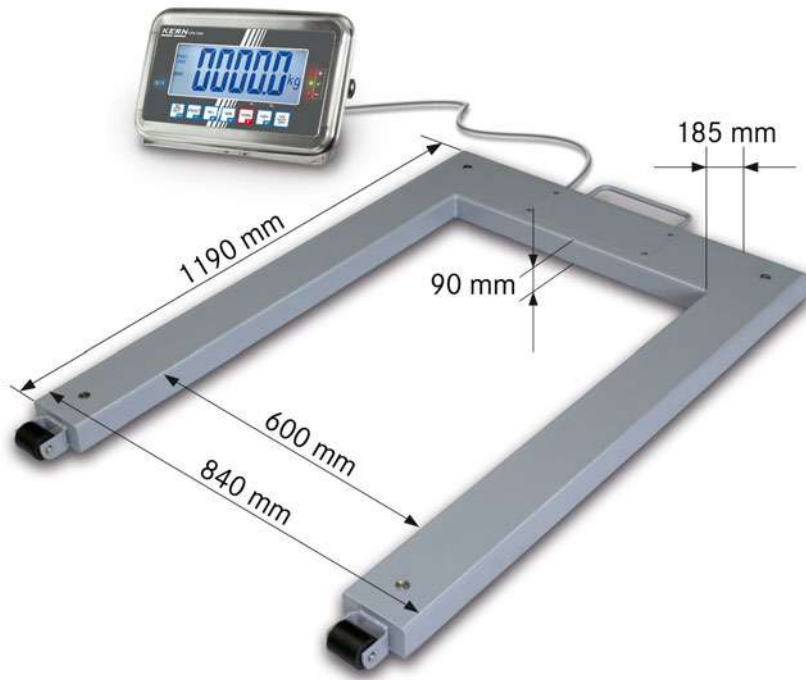


#### FACTORY



Model	Weighing capacity [Max] kg	Readability [d] kg	Minimal load [Min] kg	Price excl. of VAT ex works €	Option			
					Verification		DAkkS Calibr. Certificate	
					M KERN	€	DAkkS KERN	€
UFB 600K200M	600	0,2	4	950,-	965-230	132,-	963-130	165,-
UFB 1.5T0.5M	1500	0,5	10	950,-	965-230	132,-	963-130	165,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.



Pallet scale with steel load support (IP67) and stainless steel display device (IP65), with EC type approval [M]

Features

- **High mobility:** thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- **1 Load support:** steel, powder coated, 4 silicone-coated aluminium load cells, protection against dust and water splashes IP67, Weighing bridge can also be delivered as component without the display device, for details see KERN KFU V20
- Two wheels for easy transportation of the scale
- **2 Display device:** for details see KERN KFN-TM
- **Weighing with tolerance range (check-weighing):** A visual and audible signal assists the rapid checking of items on pallets
- **Totalising** of weights and piece counts
- **Rechargeable battery pack internal** included with delivery
- **3 Did you know?** Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN – always one step ahead

Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of display device WxDxH 266x165x96 mm
- Cable length of display device approx. 5 m
- Net weight approx. 55 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- **4 Stand** to elevate display device, height of stand approx. 800 mm, KERN BFS-A07, € 120,-
- **Rechargeable battery pack internal**, operating time up to 35 h without backlight, charging time approx. 12 h, KERN GAB-A04, € 40,-
- **Data interface RS-232**, interface cable included, approx. 1,5 m, KERN KFN-A01, € 95,-
- **5 Signal lamp** for visual support of weighing with tolerance range, only in combination with data interface KFN-A1, KERN CFS-A03, € 250,-
- **6 Large display with superior display size**, only in combination with data interface KFN-A1, KERN YKD-A02, € 220,-
- **Cable with special length** 15 m, between display device and platform, for verified models which must be ordered at the time of purchase, KERN BFB-A03, € 160,-
- **Suitable printers** see *Accessories*

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

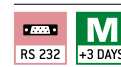
STANDARD



OPTION



FACTORY

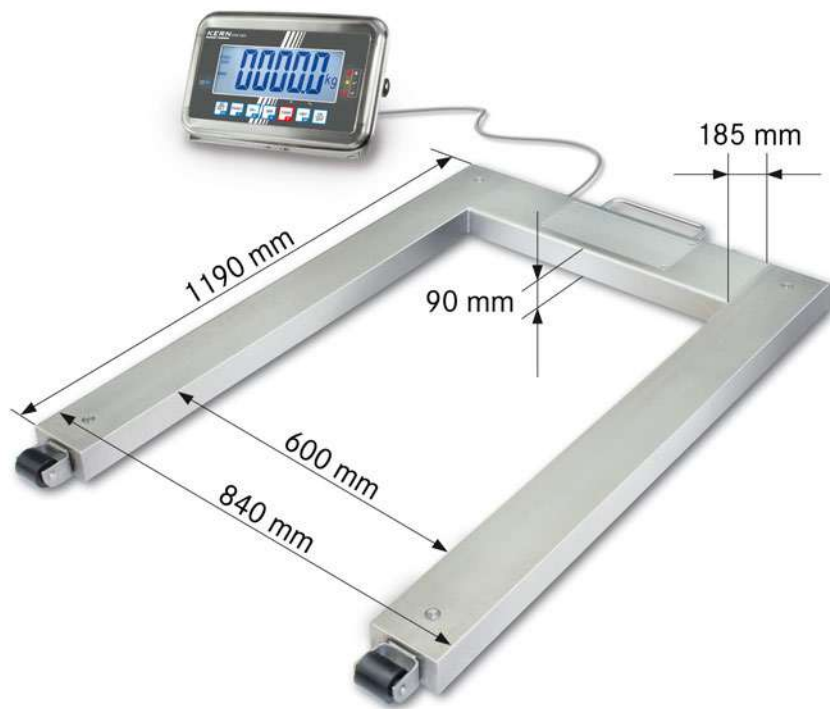


Model	Weighing capacity [Max] kg	Readability = Verification value [d] = [e] kg	Minimal load [Min] kg	Price excl. of VAT ex works €	Option			
					Verification		DAkkS Calibr. Certificate	
KERN						€	DAkkS	€
UFC 1T-1M	1500	0,5	10	990,-	965-230	132,-	963-130	165,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

! ONLY WHILE STOCKS LAST!





Pallet scale with stainless steel load support (IP67) and stainless steel display device (IP65), with EC type approval [M]

**Features**

- **High mobility:** thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- **1 Load support:** stainless steel, extremely resistant to bending due to material thickness, 4 silicone-coated stainless steel load cells, protection against dust and water splashes IP67, weighing bridge can also be delivered as component without the display device, for details see KERN KFU-V30
- Your support in a **HACCP**-compliant quality system
- **Suitable for the ever-increasing hygienic requirements** in the food industry
- **2 Display device:** for details see KERN KFN-TM
- The scale can be easily transported using **rollers** and a **handle** and does not require much storage space
- **Hold function:** When the weighing conditions are unstable, a stable weight is calculated determining an average value

**Weighing with tolerance range (check-weighing):** A visual and audible signal assists the rapid checking of items on pallets

- **Totalising** of weights
- **Rechargeable battery pack internal** included with delivery
- **3** Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN - always one step ahead

**Technical data**

- Large backlit LCD display, digit height 52 mm
- Dimensions of display device WxDxH 266x165x96 mm
- Cable length of display device approx. 5 m
- Net weight approx. 55 kg
- Permissible ambient temperature -10 °C/40 °C

**Accessories**

- **4 Stand** to elevate display device, height of stand approx. 800 mm, KERN BFN-A04, € 285,-
- **Rechargeable battery pack internal**, operating time up to 35 h without backlight, charging time approx. 10 h, KERN GAB-A04, € 40,-
- **Data interface RS-232**, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KFN-A01, € 95,-
- **5 Large display with superior display size**, only in combination with data interface KFN-A1, KERN YKD-A02, € 220,-
- **Cable with special length** 15 m, between display device and platform, for verified models which must be ordered at the time of purchase, KERN BFB-A03, € 160,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

Limited tare range with verifiable models 1/6 from [Max]

1 Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

STANDARD										OPTION		FACTORY	
				2	1								

Model	Weighing capacity [Max] kg	Readability = Verification value [d] = [e] kg	Minimal load [Min] kg	Price excl. of VAT ex works €	Option			
					Verification		DAkKS Calibr. Certificate	
KERN						€	DAkKS KERN	€
UFN 600K200IPM	600	0,2	4	1290,-	965-230	132,-	963-130	165,-
UFN 1.5T0.5IPM	1500	0,5	10	1590,-	965-230	132,-	963-130	165,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

Price reduction



## Drive-through scale (IP67) with XXL display device and EC type approval [M]

### Features

- Drive-through scale for rapid weighing of e.g. wire cage trolleys, shelf trolleys, container trolleys, storage trolleys, sack trucks, transpallets, mobile containers, containers refuse etc.
- **Low platform height** and integrated access ramps on both sides facilitate access. No need for pit frame installation – which saves money
- **1 Weighing bridge:** out of anti-slip corrugated steel, 4 silicone-coated steel load cells, dust and spray protection IP67
- **Display device:** for details see KERN KFB-TM
- **Protective working cover** included with delivery
- **2** Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN – always one step ahead

### Technical data

- Large backlit LCD display, digit height 52 mm
- Overall dimensions W×D×H
  - A** 1600×1200×80 mm
  - B** 1800×1400×80 mm
- Platform height in the drive-through area: 80 mm
- Dimensions weighing surface
  - A** W×D 1000×1000 mm
  - B** W×D 1200×1200 mm
- Dimensions of display device W×D×H 250×160×65 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

### Accessories

- Protective working cover, scope of delivery: 5 items, KERN KFB-A02S05, **€ 40,-**
- **3** Stand to elevate display device, height of stand approx. 800 mm, Stand to elevate display device, height of stand approx. 800 mm, KERN BFS-A07, **€ 120,-**

- Pair of base plates to fix the weighing bridge to the floor, KERN BFS-A06, **€ 70,-**
- **Rechargeable battery pack internal**, operating time up to 35 h without backlight, charging time approx. 10 h, KERN KFB-A01, **€ 35,-**
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification, KERN KFB-A03, **€ 130,-**
- Analogue module, must be ordered at purchase, not possible in combination with signal lamp 0-10 V: KERN KFB-A04, **€ 95,-**  
4-20 mA: KERN KFB-A05, **€ 95,-**
- **4 Signal lamp** for visual support of weighing with tolerance range, KERN CFS-A03, **€ 250,-**
- **5 Large display with superior display size**, KERN YKD-A02, **€ 220,-**
- Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, **€ 35,-**
- Cable with special length 15 m, between display device and platform, for verified models which must be ordered at the time of purchase, KERN BFB-A03, **€ 160,-**
- Further details, plenty of further accessories and suitable printers see Accessories

**Note:** For verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame

**1** Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

#### STANDARD



#### OPTION



#### FACTORY



Model	Weighing capacity [Max] kg	Readability = Verification value [d] = [e] kg	Minimal load [Min] kg	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option				
							Verification		DAkkS Calibr. Certificate		
KERN											
NFB 600K200M	600	0,2	4	130	A	1450,-	965-230	132,-	963-130	165,-	
NFB 600K200LM	600	0,2	4	165	B	1650,-	965-230	132,-	963-130	165,-	
NFB 1.5T0.5M	1500	0,5	10	130	A	1350,-	965-230	132,-	963-130	165,-	
NFB 1.5T0.5LM	1500	0,5	10	155	B	1650,-	965-230	132,-	963-130	165,-	

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

**1** Price reduction



## Stainless steel drive-through scale (IP68) with stainless steel display device (IP65), with EC type approval [M]

### Features

- **Robust stainless steel drive-through scale** for rapid weighing of e.g. laundry carts, container trolleys, roller containers, etc. Ideal for hospital laundry services, goods inwards, hospital kitchens, etc.
- **Low platform height** and integrated access ramps on both sides facilitate access. No need for pit frame installation – which saves money
- **Ideal for the increased hygienic requirements** in the food, pharmaceutical and chemical industries
- **1 Weighing bridge:** stainless steel, extremely resistant to bending due to material thickness, 4 welded stainless steel load cells, dust and spray protection IP68. Weighing bridge can also be delivered as component without the display device, for details see KERN KFD-V40
- Your support in a **HACCP-compliant** quality system
- **2 Display device:** for details see KERN KFN-TM
- **Totalising** of weights and piece counts

- **Rechargeable battery pack internal** included with delivery
- **3 Did you know?** Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN – always one step ahead

### Technical data

- Large backlit LCD display, digit height 52 mm
- Overall dimensions WxDxH 1600x1200x80 mm
- Platform height in the drive-through area: 80 mm
- Dimensions weighing surface WxD 1000x1000 mm
- Dimensions of display device WxDxH 266x165x96 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

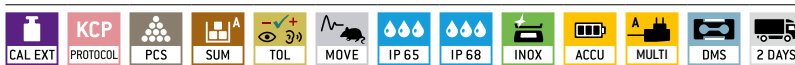
### Accessories

- **4 Stand** to elevate display device, height of stand approx. 800 mm, KERN BFN-A04, **€ 285,-**
- **Pair of base plates** to fix the weighing bridge to the floor, KERN BFN-A03, **€ 60,-**
- **Internal rechargeable battery pack**, operating time up to 35 h without backlight, charging time approx. 12 h, KERN GAB-A04, **€ 40,-**
- **Data interface RS-232**, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KFN-A01, **€ 95,-**
- **5 Large display with superior display size**, only in combination with data interface KFN-A1, KERN YKD-A02, **€ 220,-**
- **Cable with special length** 15 m, between display device and platform, for verified models which must be ordered at the time of purchase, KERN BFB-A03, **€ 160,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

**Note:** For verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame

**1** Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

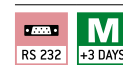
### STANDARD



### OPTION



### FACTORY

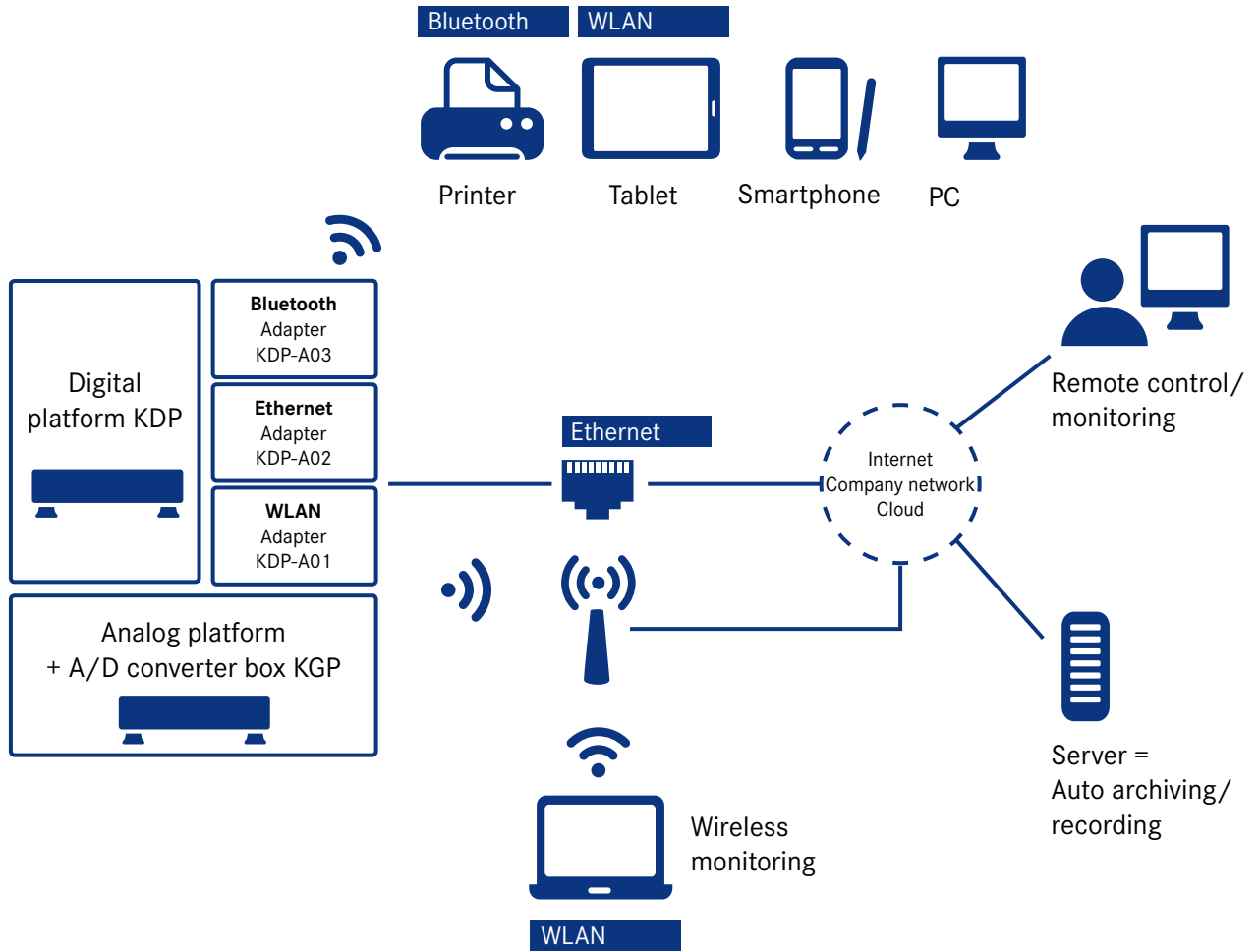


Model	Weighing capacity [Max] kg	Readability = Verification value [d] = [e] kg	Minimal load [Min] kg	Net weight approx. kg	Price excl. of VAT ex works €	Option			
						Verification		DAkkS Calibr. Certificate	
KERN							€	DAkkS KERN	€
NFN 600K-1M	600	0,2	4	130	2750,-	965-230	132,-	963-130	165,-
NFN 1.5T-4M	1500	0,5	10	125	2980,-	965-230	132,-	963-130	165,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

Price reduction

## System solutions Industry 4.0



We will help to combine industrial production with the latest information and communication technology, with the aim of improving quality, reducing costs and using time and resources more efficiently so that you are able to react to future requirements in a more flexible manner. You will benefit from our uniform data protocol combined with our BalanceConnection 4.0 data software, for details please see page 175/176.

### The KERN team in our centre of expertise – Industry 4.0



Daniel Egeler



Edgar Litti



Ralf Kurschat



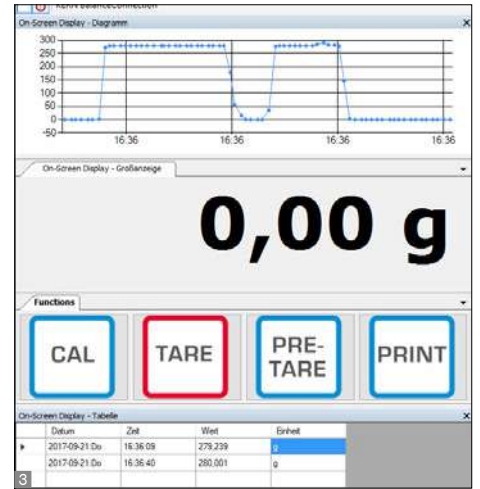
Fabian Brenner

▷ **We would like to inform you and advise you**

**Tel. +49 7433 9933-200**  
**ITsupport@kern-sohn.com**



Sim. to illustration



## Robust industrial platform scale with A/D converter box, ideal for varied range of applications for Industry 4.0

### Features

- With this **combination of 1 platform (KERN KFP V20 IP65) and A/D converter box (KERN YKV-01)** your weighing processes are ready for the requirements of Industry 4.0. Simply install the platform, connect the A/D converter box to the network and start weighing
- For rapid transfer of weighing data to connected networks, computers, etc.
- USB and RS-232 data interface standard, Power supply via USB interface
- Transfer formats are freely configurable
- Functions: Weighing, taring
- Internal resolution 16 million divisions
- Measurement frequency 10 Hz
- Easy configuration using the software supplied
- KERN YKV-01: Robust plastic die-cast housing
- 2 KERN YKV-01: Suitable for wall mounting and DIN track mount (optional)

### Included with delivery:

- Industrial platform KERN KFP
- A/D converter box KERN YKV-01
- DIN rail mounting bracket
- Configuration software for adjusting and managing the KERN KDP, for large-format display of the values collected on the PC as well as transfer of this data to other Apps and programs. The displayed result can therefore be converted to any format for communication with the different user programs, such as, for example, e.g. SAP, Oracle etc.

### Technical Data

- Weighing plate material stainless steel
- KERN YKV: Overall dimensions W×D×H 100×127×28 mm
- Permissible ambient temperature -10 °C/ 40 °C

### Accessories

- **Bluetooth data interface**, KERN YKV-A02, € 60,-
- **WiFi data interface**, KERN YKV-A01, € 60,-
- **Ethernet data interface** on request
- 2 **DIN rail mounting bracket** for KERN YKV, KERN YKV-A03, € 60,-
- 3 **Software BalanceConnection**, flexible recording or transfer of measurements, particularly to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs. The displayed result can therefore be converted to any format for communication with the different user programs, such as, for example, e.g. SAP, for details see page 175, KERN SCD-4.0, € 150,-

#### STANDARD



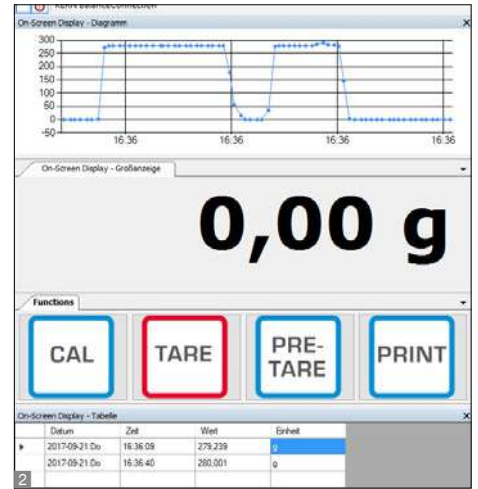
#### OPTION



#### FACTORY



Model	Weighing capacity [Max] kg	Read-out [d] g	Weighing plate mm	Cable length m	Net weight approx. kg	Price excl. of VAT ex works €	Options	
							DAKKS KERN	Calibr. Certificate €
KGP 6K-4	6	0,2	300×240×120	3	6	430,-	963-128	88,-
KGP 6K-4L	6	0,2	400×300×128	3	10	450,-	963-128	88,-
KGP 10K-4	15	0,5	300×240×120	3	6	450,-	963-128	88,-
KGP 10K-4L	15	0,5	400×300×128	3	10	490,-	963-128	88,-
KGP 30K-3	30	1	300×240×120	3	6	450,-	963-128	88,-
KGP 30K-3L	30	1	400×300×128	3	10	490,-	963-128	88,-
KGP 60K-3	60	2	400×300×128	3	10	520,-	963-129	105,-
KGP 60K-3L	60	2	500×400×137	3	13	580,-	963-129	105,-
KGP 100K-3	150	5	500×400×137	3	14	580,-	963-129	105,-
KGP 100K-3L	150	5	650×500×142	3	22	780,-	963-129	105,-
KGP 300K-2L	300	10	650×500×142	3	22	780,-	963-129	105,-



Modern A/D converter for the rapid recording of weighing data and forwarding it to the most varied output channels such as tablets, networks, SPS controllers, etc. – ideal for operating balances in systems or conveyors

**Features**

- With this A/D converter box your weighing processes are ready for the requirements of Industry 4.0. Simply connect a weighing platform or measuring cell, integrate the A/D converter box into the network and start weighing
- For rapid transfer of weighing data to connected networks, computers, etc.
- USB and RS-232 data interface standard, Power supply via USB interface
- Transfer formats are freely configurable
- Functions: Weighing, taring
- Internal resolution 16 million divisions
- Measuring frequency 10 Hz
- Easy configuration using the software supplied
- Robust plastic die-cast housing
- **1** Suitable for wall mounting and DIN track mount
- Compatible with all KERN weighing platforms

**Included with delivery:**

- Industrial platform KERN KFP
- USB cable incl. mains plug
- DIN rail mounting bracket
- A/D converter box KERN YKV-01
- **2** Configuration software for adjusting and managing the KERN KDP, for large-format display of the values collected on the PC as well as transfer of this data to other Apps and programs. The displayed result can therefore be converted to any format for communication with the different user programs, such as, for example, e.g. SAP, Oracle etc.

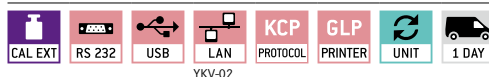
**Technical Data**

- Overall dimensions W×D×H 100×127×28 mm
- Net weight approx. 1,2 kg
- Permissible ambient temperature -10 °C/40 °C

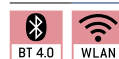
**Accessories**

- **Bluetooth data interface**, KERN YKV-A02, € 60,-
- **WiFi data interface**, KERN YKV-A01, € 60,-
- **DIN rail mounting bracket** for KERN YKV, KERN YKV-A03, € 60,-
- **Software BalanceConnection**, flexible recording or transfer of measurements, particularly to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs. The displayed result can therefore be converted to any format for communication with the different user programs, such as, for example, e.g. SAP, for details see page 175, KERN SCD-4.0, € 150,-

STANDARD



FACTORY



Model	Standard interfaces	Price excl. of VAT ex works €
KERN		
YKV-01	RS-232, USB	190,-
YKV-02	RS-232, USB, Ethernet	240,-

NEW



Fig. shows KERN CE HSA



Your contact for technical questions



**Stefan Herrmann**

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 Fax +49 7433 9933-29214  
 stefan.herrmann@kern-sohn.com

Super compact display device (rail-mounted module) for installation in switch cabinets

**Features**

- Compact display unit for recording weighing data using strain gauge load cells, e.g. in industrial applications
- Due to its small size, it is particularly space-saving to install in switch cabinets
- Thanks to the many interface variants, the modules can be ideally integrated into existing infrastructures and systems
- **A** The modules can be used either individually or as a Buslink system with a total of up to 332 DIN rail modules

- The configuration of the module can be carried out conveniently via a connected PC with the supplied software
- Bright LED display for optical control and settings
- Time-saving G-Cal™ (Geographic Calibration) technology for fast and accurate calibration without weights conveniently over a network or the Internet worldwide
- Convenient communication via remote devices
- Backup and restore function via USB port
- Can handle various industrial protocols such as Ethernet IP, Modbus TCP, Modbus RTU, FINS and Profibus DP

- Extremely high measurement frequency possible, up to 1600 data records/s
- Internal resolution 24 Bit

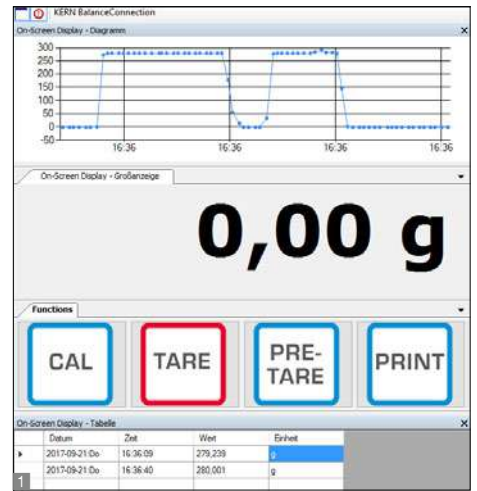
**Technical Data**

- LCD display, digit height 7,6 mm
- Dimensions W×D×H 101×120×22,5 mm
- Permissible ambient temperature -10 °C/40°C

**Accessories**

- Mains adapter for power supply of the KERN CE HS, mountable on DIN rail, KERN CE HSS, € 80,-

Features	Model KERN			
	CE HSA	CE HSE	CE HSP	CE HSR
<b>Power supply</b>	18-32 Vdc; 4 W max.	18-32 Vdc; 4 W max.	18-32 Vdc; 4 W max.	18-32 Vdc; 4 W max.
<b>Load cell power supply</b>	5 Vdc	5 Vdc	5 Vdc	5 Vdc
<b>Sensitivity</b>	0,1 µV/d	0,1 µV/d	0,1 µV/d	0,1 µV/d
<b>Adjustable nominal sensitivity</b>	1; 1.5; 2; 2.5; 3 mV/V	1; 1.5; 2; 2.5; 3 mV/V	1; 1.5; 2; 2.5; 3 mV/V	1; 1.5; 2; 2.5; 3 mV/V
<b>Input voltage Unipolar @3mV/V</b>	-1 mV to +16 mV	-1 mV to +16 mV	-1 mV to +16 mV	-1 mV to +16 mV
<b>Input voltage Bipolar @3mV/V</b>	-16 mV to +16 mV	-16 mV to +16 mV	-16 mV to +16 mV	-16 mV to +16 mV
<b>A/D Conversion speed</b>	1600/s	1600/s	1600/s	1600/s
<b>Max. load cell impedance</b>	1200Ω	1200Ω	1200Ω	1200Ω
<b>Min. load cell impedance</b>	43,75 Ω	43,75 Ω	43,75 Ω	43,75 Ω
<b>Max. no. of load cells 350 Ω</b>	8	8	8	8
<b>Max. no. of load cells 1000 Ω</b>	22	22	22	22
<b>Max. number of d</b>	10.000	10.000	10.000	10.000
<b>Display steps</b>	1,2,5, 10,20,50,100,200	1,2,5, 10,20,50,100,200	1,2,5, 10,20,50,100,200	1,2,5, 10,20,50,100,200
<b>Communication/Interfaces</b>	USB	USB, Ethernet	USB, Profibus	USB, RS232/422
<b>Analog output</b>	0/4-20/24mA	-	-	-
<b>Dimensions W×D×H</b>	120×110×22 mm	120×110×22 mm	120×110×22 mm	120×110×22 mm
<b>Net weight g</b>	150	150	150	150
<b>Price excl. of VAT ex works €</b>	<b>480,-</b>	<b>540,-</b>	<b>540,-</b>	<b>510,-</b>



## Universal weighing platforms for flexible connection into process chains

### Features

- Industry 4.0 process chains: these weighing platforms can be easily integrated into your process chain. All recorded values can be easily transferred and processed further in your system as digital data and data that has already been compared using the many interfaces available. This saves cost, time and resources and ensures even more effective working
- Connecting the balance with a tablet or PC offers the advantage of being able to use the apps and programs which are on that device. These apps and programs are usually already tailored to your needs, are easy and convenient to use and can often be expanded as needed. This offers you the maximum level of flexibility when displaying, processing and saving the recorded weighing data
- **Searching and remote control of the balance** using external control devices or computers with the KERN Communication Protocol (KCP). KCP is a standardised interface command structure for KERN balances and other instruments which allows you to recall

and manage all relevant parameters and device functions. You can therefore simply connect KERN devices with KCP to computers, industrial control systems and other digital systems. In a large number of cases the KCP is compatible with the MT-SICS protocol

- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **Freely programmable weighing unit**, e.g. display direct in special units such as length of thread g/m, paper weight g/m<sup>2</sup>, or similar
- **Level indicator and levelling feet** for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- **Draught shield** standard for models with weighing plate size **A**, weighing space W×D×H 146×146×80 mm
- Included with delivery:
  - **Software BalanceConnection** for adjusting and managing the KERN KDP, for large-format display of the values collected on the PC as well as transfer of this data to other Apps and programs

### Technical Data

- Dimensions weighing surface
  - A** Ø 105 mm
  - B** W×D 160×160 mm, see larger picture
- Weighing plate material
  - A** plastic, with conductive lacquer
  - B** stainless steel
- Overall dimensions W×D×H 165×166×75 mm (without draught shield)
- Cable length approx. 1,2 m
- Net weight approx. 1,2 kg
- Permissible ambient temperature 5 °C / 35 °C

### Accessories

- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase, KERN KDP-A03, **€ 50,-**
- **WiFi interface** for wireless connection of the balance to networks and WiFi capable devices, such as tablets, laptops or smartphones, must be ordered at purchase, please ask for delivery time, KERN KDP-A01, **€ 50,-**
- **Ethernet data interface**, to connect an IP-based Ethernet network, must be ordered at purchase, not in combination with verification, KERN KDP-A02, **€ 100,-**

STANDARD						OPTION			FACTORY				
						<b>+3 DAYS</b>							

Model	Weighing capacity [Max] g	Read-out [d] g	Reproducibility g	Linearity g	Weighing plate mm	Price excl. of VAT ex works €	Options	
							DAkkS KERN	DAkkS Calibr. Certificate €
KDP 300-3	350	0,001	0,002	± 0,005	<b>A</b>	<b>390,-</b>	963-127	72,-
KDP 3000-2	3500	0,01	0,02	± 0,05	<b>B</b>	<b>390,-</b>	963-127	72,-
KDP 10K-4	10000	0,1	0,1	± 0,3	<b>B</b>	<b>390,-</b>	963-128	88,-
KDP 10K-3	10000	1	1	± 3	<b>B</b>	<b>410,-</b>	963-128	88,-



## Display devices/Platforms/Weighing bridges

### Putting together individual weighing systems which cannot be verified

KERN offers a range of KERN display devices and KERN weighing units, such as platform scales, floor scales, pallet scales and drive-through scales, which you can put together to make your ideal scale. You choose the components, KERN handles the rest.

#### Assembly

KERN delivers the complete scale which is ready to use. Prices for assembly can be found in the "Assembly" price table. On request we can also produce a calibration certificate in accordance with DAkkS/DKD at an additional price, see page 210 ff.

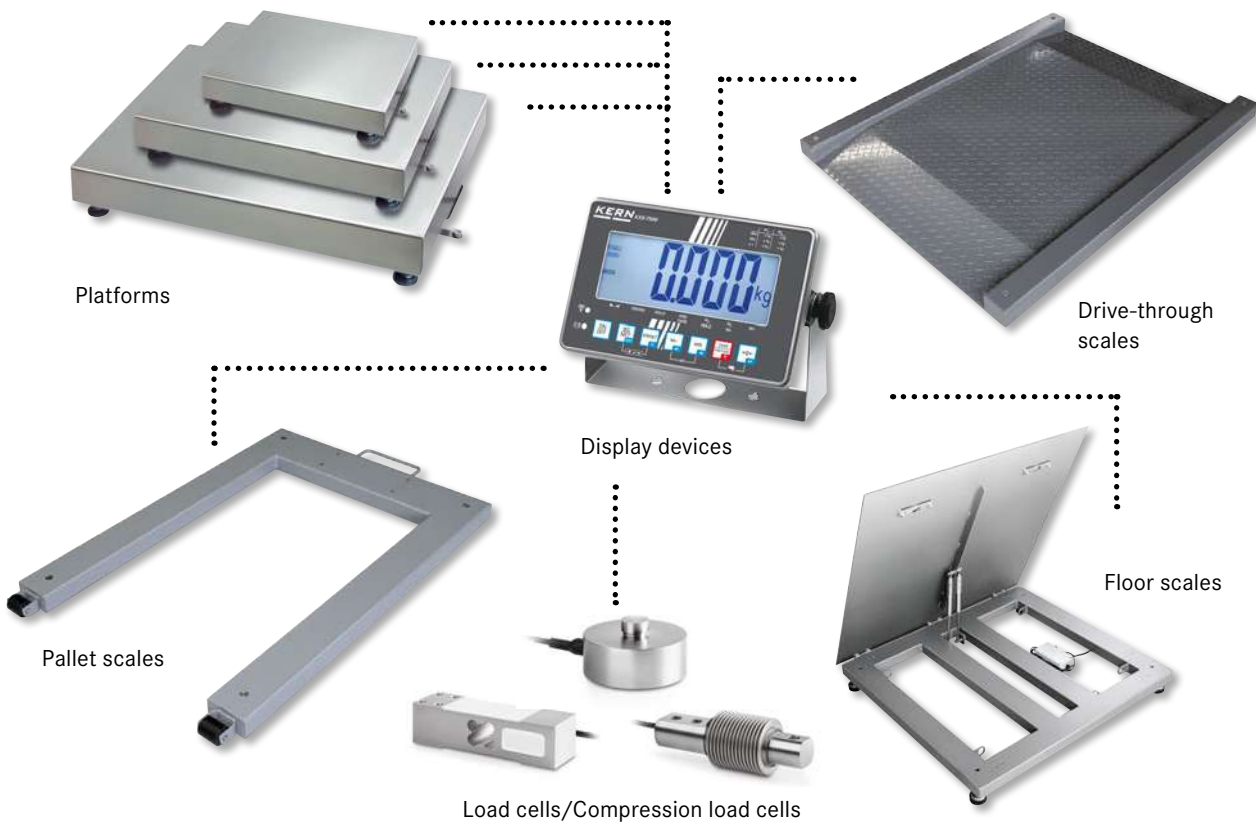
### Putting together individual weighing systems which can be verified or are verified

In order to provide the complete package, as well as assembling your individual weighing system, KERN will also carry out the manufacturer's initial verification/evaluation for conformity in accordance with EC directives as a commercial scales of verification class III.

In accordance with the European verification regulations, when assembling a display device with a weighing unit you must take the following notes into account:

- Only elements which can be verified with build-type approval or OIML test certificate can be combined into a weighing system which can be verified. With KERN these are labelled with "M".
- Platforms with load cells, provided as third-party products which have an OIML test certificate can be included.
- It will not be possible to carry out verification at a later date, e.g. after assembly and delivery of the weighing system. So please order the verification at the same time as you order the weighing system.

You will find a wide variety of display devices, platforms, weighing bridges, etc. in KERN's product range and these can be put together to create your ideal scale. You simply choose the components, KERN handles the rest.



**Florian Bächle**  
 Product specialist  
 Display devices/Platforms/Weighing bridges  
 Tel. +49 7433 9933-118  
 Fax +49 7433 9933-29118  
 florian.baechle@kern-sohn.com

## The individual KERN steps:

1. Proof of compatibility	Weighing capacity	Model	Price excl. of VAT, ex works €
This is mandatory by law and includes testing by using build-type approvals, whether the connection values of the display device match the connection data of the weighing unit.	0 up ... kg	KERN	
	all Weighing capacities	965-240	45,-
▼			
2. Assembly	up ≤ 50 kg	965-411	70,-
After testing for suitability using the proof of compatibility, the weighing system will be hard wired by KERN. The weighing system will then be tested in accordance with regulations of 2014/31/EU, the European directive for non-automatic weighing instruments and prepared for conformity assessment.	up ≤ 350 kg	965-412	100,-
	up ≤ 1500 kg	965-413	120,-
	up ≤ 2900 kg	965-414	150,-
	up ≤ 6000 kg	965-415	250,-
	▼		
3. Initial verification by the manufacturer Conformity assessment ("Initial verification by the manufacturer")	up ≤ 5 kg	965-227	55,-
KERN is authorised to carry out the conformity assessment ("initial verification by the manufacturer") in accordance with 2014/31/EU, the European directive for non-automatic weighing instruments and is therefore authorised to introduce the weighing system onto the market, after the test has been carried out successfully and the conformity mark has been affixed.	up ≤ 50 kg	965-228	70,-
	up ≤ 350 kg	965-229	93,-
	up ≤ 1500 kg	965-230	132,-
	up ≤ 2900 kg	965-231	150,-
	up ≤ 6000 kg	965-232	200,-
	▼		
4. Declaration of conformity			
KERN issues this after the initial verification by the manufacturer Conformity assessment has been carried out successfully and sends it with the weighing system at no additional cost, and it can be used in areas regulated by law.			

## Modifications and special services

Description	Model	Price excl. of VAT, ex works €
	KERN	
<b>Cable extensions for platform scales with build-type approval</b>		
up to 4 m extension	965-403	45,-
up to 7 m extension	965-404	60,-
up to 10 m extension	965-405	75,-
<b>Cable extensions for platform scales without build-type approval</b>		
up to 4 m extension	920-403	45,-
up to 7 m extension	920-404	60,-
up to 10 m extension	920-405	75,-
<b>Setting an individual preload</b>		
Balance with build-type approval	965-401	50,-
Balance without build-type approval	920-406	60,-
Other adjustments in the balance or software changes	965-407	95,-/h
<b>Plug connection (replaces the fixed cable connection between the display device and platform with a plug connection which can be disconnected)</b>		
balances with type approval and verification (according to time spent)		only possible with separable, verifiable plug connection with identification chip (e.g. KERN KIB-A12), for the corresponding models (e.g. IOC, BID UID) please order when purchasing
balances with type approval, no verification	965-406	60,-

## Order example

	Model	Price excl. of VAT, ex works €
<b>KFP 30V20M</b> platform and <b>KEN-TM</b> display device with cable extension (4 m) and setting an individual preload.	KERN	
KERN platform	KFP 30V20M	230,-
KERN display device	KFN-TM	290,-
Proof of compatibility	965-240	45,-
Cable extension	965-403	45,-
Setting the preload	965-401	50,-
Assembly	965-411	70,-
Verification at the factory KERN	965-228	70,-
<b>Complete scale (verified)</b>		<b>800,-</b>



**1 KERN KFB-TM**

Display device with large digits  
– easy to read

**2 KERN KFS-TM**

Professional indicator with 3 displays,  
also with EC type approval [M]

**Note**

to see what options are offered by this display device, please see the KERN platform scale IFB on page 103

**Note**

to see what options are offered by this display device, please see the KERN counting scale IFS on page 86

STANDARD

CAL EXT, RS 232, KCP, GLP, PCS, SUM, UNIT, TOL

STANDARD      OPTION      FACTORY

MOVE, MULTI, 1 DAY, ACCU, BT 2.0, ANALOG, M

STANDARD

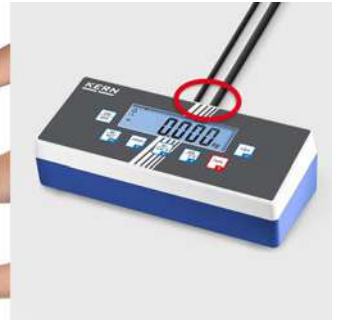
CAL EXT, MEMORY, RS 232, KCP, GLP, INTERN, PCS, SUM, PERCENT

STANDARD      OPTION      FACTORY

UNIT, TOL, MULTI, 1 DAY, ACCU, M

\* not possible in combination with verification  
\*\* not possible in combination with signal lamp

Features	Model KERN	
	1 KFB-TM	2 KERN KFS-TM
Display (segments)	5 + ½ digits	6 digits
EC type approval	yes	yes
Resolution verifiable	6000 e	3000 e
Resolution non verifiable	30000 d	60000 d
Weighing capacities	≤ 2	≤ 2
Weighing units	kg, lb	kg, g
Readability	1, 2, 5, 10, n	1, 2, 5, 10, n
Piece counting with reference	10, 20, 50, 100, 200	n
Display, digit height	Backlit LCD display, 52 mm	Backlit LCD displays, 13/16,5 mm
Additional functions	Totalising, HOLD function	99 item memories, totalising, printing of date and time
Strain gauge load cells	87 – 1600 Ω	87 – 1600 Ω
Linearisation	3 points	4 points
Input voltage	12 V, 500 mA	12 V, 500 mA
Permissible ambient temperature	-10 °C/40 °C	0 °C/40 °C
Interface RS-232	yes	yes
2. Interface RS-232, separate Y cable	CFS-A04, € 35,-	CFS-A04, € 35,-
Interface RS-485	-	-
Interface USB	-	-
Interface Bluetooth	KERN KFB-A03, see page 103, € 130,-	-
Analogue module	0-10V: KERN KFB-A04, € 95,-; 4-20 mA: KERN KFB-A05, € 95,-; see page 103	-
Signal lamp	CFS-A03, € 250,-	CFS-A03, € 250,-
Foot switch	-	-
Stand	BFS-A07, see page 103, € 120,-	BFS-A07, see page 86, € 120,-
Benchtop stand for display device/wall mount	yes/yes	yes/yes
Protective working cover	KFB-A02S05, see page 103, € 40,-	KFB-A02S05, see page 86, € 40,-
Rechargeable battery pack	KFB-A01, see page 103, € 35,-	KFS-A01, see page 86, € 35,-
Operating/charging time	up to 35 h/12 h	up to 40 h/12 h
Dimensions Housing W×D×H	250×160×65 mm	260×150×65 mm
Net weight	1,2 kg	1,5 kg
Price excl. of VAT, ex works €	<b>190,-</b>	<b>210,-</b>



### 3 KERN KIB-TM

Practical Flip/Flop display device for greatest ease of use

**Practical Flip/Flop display device:**

flexible positioning e.g. free-standing or screwed to the wall (optional). By rotating the upper housing shell you can determine the angle of the display as well as the cable outlet. Factory Option ex works for an additional cost, delivery time + 2 working days, KERN KIB-M01, € 95,-

**Industry 4.0:** A large number of (optional) data interfaces enable convenient Transferring weighing data to tablets, laptops, PCs, networks, smartphones, printers, etc.

**Searching and remote control of the balance**

using external control devices or computers with the KERN Communication Protocol (KCP). KCP is a standardised interface command structure for KERN balances and other instruments which allows you to recall and manage all relevant parameters and device functions. You can therefore simply connect KERN devices with KCP to computers, industrial control systems and other digital systems. In a large number of cases the KCP is compatible with the MT-SICS protocol. Only possible through RS-232 data interface, other interfaces on request.

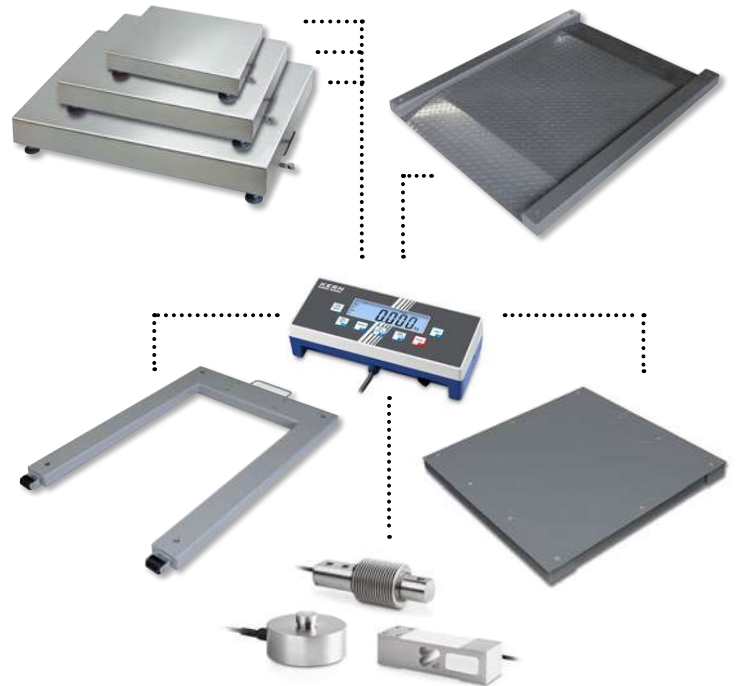
In the KERN product range you will find a large number of platforms, weighbridges etc. which you can combine with the KERN KIB-TM display device. Simply select the components, KERN will take care of the rest.

\* Verification not in combination with KERN KIB-A02, KIB-A03, KIB-A04, KIB-A10

\*\* Note: In addition to the RS-232 data interface, which is integrated as standard, only one other data interface can be installed and operated

STANDARD												OPTION		FACTORY									
													**	**	**	**	**	*					

Features	Model KERN
	<b>3 KIB-TM</b>
Display (segments)	6 digits
EC type approval	yes
Resolution verifiable	6000 e
Resolution non verifiable	60000 d
Weighing capacities	≤ 2
Weighing units	kg, g
Readability	1, 2, 5, 10, n
Piece counting with reference	5, 10, 20, 25, 50, 100
Display, digit height	Backlit LCD display, 24 mm
Additional functions	Totalising, HOLD function, printing of time. KCP Only possible through RS-232; USB, Bluetooth, WLAN, Digital I/O, LAN on request
Strain gauge load cells	87-1100 Ω
Linearisation	3 points
Input voltage	12 V DC, 1000 mA
Permissible ambient temperature	-10 °C/40 °C
Interface RS-232	yes
Interface RS-485	-
Interface USB	KIB-A03**, see page 102, € 120,-
Interface Bluetooth	KIB-A04**, see page 102, € 110,-
WLAN	KIB-A10**, see page 102, € 55,-
SWITCH (DIGITAL I/O)	-
LAN	KIB-A02**, see page 102, € 150,-**
Alibi memory	KIB-A01, € 95,-
Stand	EOC-A05, see page 102, € 60,-
Benchtop stand for display device/wall mount	EOC-A04, € 30,-
Protective working cover	EOC-A01S05, € 40,-
Rechargeable battery pack	KFB-A01, see page 102, € 35,-
Operating/charging time	up to 43 h/3 h
Dimensions Housing W×D×H	268×115×70 mm
Net weight	0,8 kg
Price	<b>190,-</b>
excl. of VAT, ex works €	



**Note**

to see what options are offered by this display device, please see the KERN platform scale IOC on page 102



**4 KERN KFE-TM**

Stainless steel display device with IP65 protection

**5 KERN KFN-TM**

Stainless steel display device with IP65 protection and superior display size

**6 KERN KXS-TM**

Stainless steel display device with IP68 protection and integrated power supply

**Note**

to see what options are offered by this display device, please see the KERN SFE platform scale on page 105

**Note**

to see what options are offered by this display device, please see the KERN SFB platform scale on page 72

**Note**

to see what options are offered by this display device, please see the KERN SXS platform scale on page 73

STANDARD

STANDARD

FACTORY

STANDARD

STANDARD

OPTION

FACTORY

STANDARD

STANDARD

OPTION

FACTORY

\*\*

\*\* not possible in combination with verification

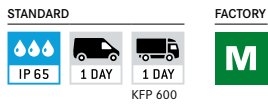
Features	Model KERN		
	4 KFE-TM*	5 KFN-TM	6 KXS-TM
Display (segments)	6 digits	5 + 1/2 digits	6 digits
EC type approval	yes	yes	yes
Resolution verifiable	6000 e	6000 e	10000 e
Resolution non verifiable	30000 d	30000 d	30000 d
Weighing capacities	≤ 2	≤ 2	≤ 2
Weighing units	kg	kg	kg, g
Readability	1, 2, 5, 10, n	1, 2, 5, 10, n	1, 2, 5, 10, 50
Piece counting with reference	-	10, 20, 50, 100, 200	10, 20, 50, 100, 200
Display, digit height	Backlit LCD display, 22 mm	Backlit LCD display, 52 mm	Backlit LCD display, 55 mm
Additional functions	-	Totalising, HOLD function	PRE-Tare function, totalising, HOLD function, peak hold, zero-point memorisation
Strain gauge load cells	87 – 1200 Ω	87 – 1600 Ω	87 – 1600 Ω
Linearisation	2 points	2 points	2-7 points
Input voltage	12 V, 500 mA	12 V, 500 mA	220-240 V AC
Permissible ambient temperature	-10 °C/40 °C	-10 °C/40 °C	-10 °C/40 °C
Interface RS-232	-	KFN-A01, see page 72, € 95,-	KXS-A04, € 100,-
Interface RS-485	-	-	KXS-A01, € 145,-
Interface USB	-	-	-
Interface Bluetooth	-	-	KXS-A02, € 170,- (balance ► PC)
Foot switch	-	-	KXS-A03, € 130,-
Stand	-	BFS-A07, see page 72, € 120,-	YKP-02, € 190,-
Benchtop stand for display device/wall mount	yes/yes	yes/yes	yes/yes
Protective working cover	-	-	-
Rechargeable battery pack	standard	GAB-A04, € 40,-	GAB-A04, € 40,-
Operating/charging time	up to 45 h/12 h	up to 35 h/12 h	bis zu 80 h/12 h
Dimensions Housing W×D×H	195×118×83 mm	266×165×96 mm	232×170×80 mm
Net weight	1 kg	2,6 kg	2,5 kg
Price excl. of VAT, ex works €	250,-	290,-	300,-

\* ONLY WHILE STOCKS LAST!



**1 KERN KFP-V20 IP65**

Platform



- **Stainless steel-weighing plate,** **A** Painted steel base
- **1 load cell, aluminium, silicone-coated, IP65, OIML-R60-approved, class III, 3000 e**
- **Level indicator and levelling feet** for precise levelling of the scale

**2 KERN KXP-V20 IP65**

Platform



- **Stainless steel-weighing plate,** **B** Painted steel base, extremely rigid, wing design
- **1 load cell, aluminium, silicone-coated, IP65, OIML-R60-approved, class III, 3000 e**
- **Level indicator and levelling feet** for precise levelling of the scale



Model	Weighing range [Max] kg	Readability [d] g	Verification value [e] g	Min. load [Min] g	Cable length approx. m	Net weight approx. kg	Weighing plate W×D×H mm	Price excl. VAT, ex works €
<b>1 Platform KFP-V20 IP65</b>								
KFP 3V20M	3	0,1	1	20	2,5	3,6	230×230×110	160,-
KFP 6V20M	6	0,2	1   2	40	2	3,6	230×230×110	170,-
KFP 6V20LM	6	0,2	1   2	40	2,5	6	300×240×110	190,-
KFP 15V20M	15	0,5	2   5	100	2	6	300×240×110	190,-
KFP 15V20LM	15	0,5	2   5	100	2,5	10	400×300×128	230,-
KFP 30V20SM	30	10	10	200	2,5	6	300×240×110	195,-
KFP 30V20M	30	1	5   10	200	2	10	400×300×128	230,-
KFP 60V20M	60	2	10   20	400	2	10	400×300×128	230,-
KFP 60V20LM	60	2	10   20	400	2	10	500×400×137	290,-
KFP 150V20M	150	5	20   50	1000	2	10	500×400×137	290,-
KFP 150V20LM	150	5	20   50	1000	2	22	650×500×135	510,-
KFP 300V20M	300	10	50   100	2000	2	22	650×500×135	510,-
KFP 600V20AM	600	200	200	4000	2,5	46	800×600×150	780,-
<b>2 Platform KXP-V20 IP65</b>								
KXP 15V20M	15	0,5	2   5	100	3	3,2	300×240×90	230,-
KXP 6V20LM	6	0,2	1   2	40	3	3,2	300×240×90	220,-
KXP 15V20LM	15	5	5	100	3	8	400×300×90	320,-
KXP 30V20M	30	1	5   10	200	3	8	400×300×89	320,-
KXP 30V20LM	30	1	5   10	200	3	18	500×400×123	450,-
KXP 60V20M	60	2	10   20	400	3	11	400×300×89	330,-
KXP 60V20LM	60	2	10   20	400	3	22	500×400×123	460,-
KXP 150V20M	150	5	20   50	1000	3	18	500×400×123	450,-
KXP 150V20LM	150	5	20   50	1000	3	34	650×500×133,5	540,-
KXP 300V20M	300	10	50   100	2000	3	34	650×500×133,5	540,-



**3 KERN KIP-V20M**

Weighing bridge



- Weighing bridge with non-slip chequer plate, lacquered, welded
- **4 Load cells, steel, silicone-coated, IP67, OIML-R60-approval for verification, class III, 3000 e**
- Can be built in using pit frames (optional)
- **Level indicator and levelling feet** for precise levelling of the scale
- **Easy access to the junction box** from the top
- **Comfortable levelling of the weighing bridge** from the top
- Accessories page 116/117 (KERN BID)

**4 KERN KFP-V20 IP67**

Weighing bridge



- **Weighing plate screwed on from the top (models with [Max] ≤ 1500 kg)**, so it easy to remove, hygienic and easy to clean.
- **Lacquered steel weighing bridge**, weighing plate size 1500×1500×130 mm corrugated steel plate. Extremely resistant to bending due to material thickness
- **4 Load cells, steel, silicone-coated, IP67, OIML-R60-approval for verification, class III, 3000 e**
- Can be built in using pit frames (optional)
- **Level indicator and levelling feet** for precise levelling of the scale
- **Easy access to the junction box** from the top
- **Comfortable levelling of the weighing bridge** from the top
- Accessories page 118/119 (KERN BFB)

**5 KERN KFD-V20**

Weighing bridge



- **Weighing bridge made of non-slip corrugated steel plate**, lacquered, two access ramps integrated, extremely resistant to bending
- Extremely flat construction to facilitate access: access height only 45 mm
- **4 Load cells, alloy steel, silicone-coated, IP67, OIML-R60-approval** class III, 3000 e
- Accessories page 130 (KERN NFB)



Model	Weighing range [Max] kg	Readability [d] g	Verification value [e] g	Min. load [Min] g	Cable length approx. m	Net weight approx. kg	Weighing plate W×D×H mm	Price excl. VAT, ex works €
<b>3 Weighing bridge KIP-V20M</b>								
KIP 600V20SM	600	200	200	4000	5	130	1000×1000×108	970,-
KIP 600V20M	600	200	200	4000	5	150	1500×1200×108	1200,-
KIP 1500V20SM	1500	500	500	10000	5	130	1000×1000×108	1230,-
KIP 1500V20EM	1500	500	500	10000	5	140	1250×1000×108	1070,-
KIP 1500V20M	1500	500	500	10000	5	150	1500×1250×108	1440,-
KIP 3000V20M	3000	1000	1000	20000	5	150	1500×1250×108	1240,-
KIP 3000V20LM	3000	1000	1000	20000	5	180	1500×1500×108	1420,-
<b>4 Weighing bridge KFP-V20 IP67</b>								
KFP 600V20SNM	600	200	200	4000	5	105	1000×1000×80	1050,-
KFP 600V20NM	600	200	200	4000	5	135	1500×1250×80	1520,-
KFP 1500V20SNM	1500	500	500	10000	5	105	1000×1000×80	1050,-
KFP 1500V20NM	1500	500	500	10000	5	135	1500×1250×80	1440,-
KFP 1500V20LNM	1500	500	500	10000	5	185	1500×1500×130	1550,-
KFP 3000V20NM	3000	1000	1000	20000	5	135	1500×1250×80	1440,-
KFP 3000V20LM	3000	1000	1000	20000	5	155	1500×1500×80	1650,-
KFP 6000V20M	6000	2000	2000	40000	5	210	1500x1500x130	1930,-
<b>5 Weighing bridge KFD-V20</b>								
KFD 600V20M	600	200	200	4000	5	125	1600×1200×78	1400,-
KFD 600V20LM	600	200	200	4000	5	155	1800×1400×80	1600,-
KFD 1500V20M	1500	500	500	10000	5	125	1600×1200×78	1300,-
KFD 1500V20LM	1500	500	500	10000	5	175	1800×1400×78	1600,-

Price reduction



**6 KERN KFA-V20**

Weighing beams

STANDARD  
 IP 67  
 2 DAYS

- Weighing beams and painted steel base
- 4 load cells, alloy steel, silicone-coated, IP67
- Levelling feet for precise levelling of the weighing beams
- **D** Image below: Version up to 6 t available. Each weighing beam has a roller and handle for easy transport of the scale (KERN KFA-L)
- **NEW:** new model with short weighing beams, ideal for weighing compact items or animals in transport boxes  
 ▶ KERN KFA-600V20S
- Accessories page 124 (KERN UFA)

**7 KERN KFU-V20/V30**

U-Weighing bridge

STANDARD  
 IP 67  
 INOX  
 2 DAYS  
 KFU-V30

FACTORY  
 M

- Load range: painted steel (V20), stainless steel (V30) height 90 mm
- 4 load cells, alloy steel, silicone-coated, IP67, OIML-R60-approval for verification, class III, 3000 e
- 2 rollers and handle for easy transport of the scale
- Accessories KFU-V20 page 127 (KERN UFB)
- Accessories KFU-V30 page 129 (KERN UFN)

**8 KERN KFP-V30**

Platform

STANDARD  
 IP 67  
 2 DAYS

FACTORY  
 INOX  
 M

- **Stainless steel-weighing plate,**  
 E Stainless steel substructure
- 1 load cell, Stainless steel, silicone-coated, IP67, OIML-approved, class III, 3000 e
- Level indicator and levelling feet for precise levelling of the scale



Model	Weighing range [Max] kg	Readability [d] g	Verification value [e] g	Min. load [Min] g	Cable length approx. m	Net weight approx. kg	Weighing plate W×D×H mm	Price excl. VAT, ex works €
<b>6 Weighing beams KFA-V20</b>								
KFA 600V20S	600	200	-	-	5	30	800×120×100	690,- <b>↓</b>
KFA 1500V20	1500	500	-	-	5	36	1200×120×100	760,-
KFA 3000V20	3000	1000	-	-	5	36	1200×120×100	780,-
KFA 3000V20L	3000	1000	-	-	5	65	2000×120×100	1150,-
KFA 6000V20	6000	2000	-	-	5	85	1200×160×80	1220,-
KFA 6000V20L	6000	2000	-	-	5	125	2100×160×85	1550,-
<b>7 U-Weighing bridge KFU-V20</b>								
KFU 600V20M	600	200	200	4000	5	55	840×1300×90	830,-
KFU 1500V20M	1500	500	500	10000	5	55	840×1300×90	830,-
<b>7 Stainless steel U-Weighing bridge KFU-V30</b>								
KFU 600V30M*	600	200	200	4000	2,5	55	840×1300×90	1240,- <b>↓</b>
KFU 1500V30M*	1500	500	500	10000	2,5	55	840×1300×90	1540,- <b>↓</b>
<b>8 Stainless steel platform KFP-V30</b>								
KFP 15V30M	15	0,5	5	100	2,5	5,0	300×240×100	490,-
KFP 30V30SM	30	10	10	200	2,5	5,0	300×240×100	490,-
KFP 30V30M	30	1	10	200	2,5	10	400×300×128	540,-
KFP 60V30M	60	2	20	400	2,5	10	400×300×128	550,-
KFP 60V30LM	60	2	20	400	2,5	10	500×400×137	650,-
KFP 60V30XLM	60	2	20	400	2,5	22	650×500×142	990,-
KFP 150V30SM	150	5	50	1000	2,5	10	400×300×128	540,-
KFP 150V30M	150	5	50	1000	2,5	10	500×400×137	660,-
KFP 150V30LM	150	5	50	1000	2,5	22	650×500×135	990,-
KFP 300V30M	300	10	100	2000	2,5	22	650×500×135	990,-

\* ONLY WHILE STOCKS LAST!

↓ Price reduction





**9 KERN KFP-V40**

Weighing bridge

STANDARD FACTORY

- Weighing bridge entirely made of **stainless steel**, extremely resistant to bending because of its high material thickness
- **F** Weighing plate fixed with stainless steel screws, for easier access to the loadcells from above
- **4 load cells, stainless steel, encapsulated, IP68, OIML-R60-approved**, class III, 3000 e
- Can be built in using pit frames (optional)
- **Level indicator and levelling feet** for precise levelling of the scale
- **Comfortable levelling of the weighing bridge** from the top
- Accessories page 121 (KERN BFN)

**10 KERN KFD-V40**

Weighing bridge

STANDARD FACTORY

- Weighing bridge made from **stainless steel**, two integrated access ramps, extremely resistant to bending
- Extremely flat construction to facilitate access: access height only 45 mm
- **4 load cells, stainless steel, encapsulated IP68, OIML-R60-approval for verification**, class III, 3000 e
- **Level indicator and levelling feet** for precise levelling of the scale
- Accessories page 131 (KERN NFN)

**Note**  
 We will be happy to create custom products for you, such as, for example weighing plates with holes and hooks in place of handles, other weighing plate sizes, other materials (steel grades) and much more.



Model	Weighing range [Max] kg	Readability [d] g	Verification value [e] g	Min. load [Min] g	Cable length approx. m	Net weight approx. kg	Weighing plate W×D×H mm	Price excl. VAT, ex works €
<b>9 Stainless steel weighing bridge KFP-V40</b>								
KFP 600V40SM	600	200	200	4000	5	95	1000×1000×80	2400,- ↓
KFP 1500V40M	1500	500	500	10000	5	135	1500×1250×80	3000,- ↓
KFP 1500V40SM	1500	500	500	10000	5	95	1000×1000×80	2400,- ↓
KFP 3000V40M	3000	1000	1000	20000	5	135	1500×1250×80	3000,- ↓
<b>10 Stainless steel weighing bridge KFD-V40</b>								
KFD 600V40M	600	200	200	4000	5	130	1600×1200×78	2700,- ↓
KFD 1500V40M	1500	500	500	10000	5	130	1600×1200×78	2700,- ↓

ONLY WHILE STOCKS LAST! ↓ Price reduction

## Load cells

Accuracy classes with nominal loads from 300 g to 100 t and protection classes up to IP69K as well as cells protected according to ATEX or OIML approved cells are available to you from now in the SAUTER product range. Whatever the project – whether it's the development of customised weighing systems, installation in silos and storage tanks or in shelving for continuous inventory, for special application in mechanical engineering or in any type of test bench – SAUTER can offer you just the right measuring cell.

Of course, we can also supply you with the appropriate accessories such as load corners, pivot heads, display devices, junction boxes or the relevant calibration certificate at the same time.

Any special requests? Do you need special load cells, other capacities or cable lengths, individual force test benches or a special mount for your test item? No problem, our product specialist for force-measuring cells Mr Stefan Herrmann is available at any time to help you further and will work with you to develop a customised concept for your application.

### Your contact for technical questions



**Stefan Herrmann**

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stefan.herrmann@kern-sohn.com

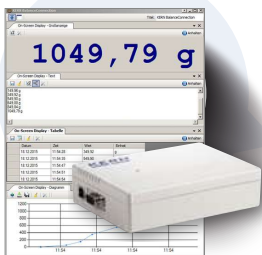
### FORCE MEASUREMENT

Load cell + SAUTER FL + Software



### BALANCE MANUFACTURE

Load cell + KERN YKV + KERN Software BalanceConnection



### BALANCE MANUFACTURE

Load cell + Junction Box + KERN YKV



### BALANCE MANUFACTURE

Load cell + display device



### BALANCE MANUFACTURE

Load cell + Junction Box + display device

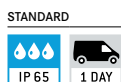


**SAUTER Mess measuring cells – integration opportunities**



### CP P4

Single-point load cells made of anodised aluminium



- CE and RoHS compliant
- Accuracy class L
- Dust and spray protection to IP65 (in accordance with EN 60529)
- Aluminium, anodised
- Suitable for price-computing scales, bench scales, platform scales, etc.
- Maximum platform size 200×200 mm
- 4-wire connection
- Nominal sensitivity: 0,9 mV/V

### CP P1

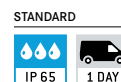
Single-point load cells made of anodised aluminium



- Accuracy in accordance with OIML R60 C3
- CE and RoHS compliant
- Dust and spray protection to IP65 (in accordance with EN 60529)
- Aluminium, anodised
- Suitable for price-computing scales, bench scales, platform scales, etc.
- Maximum platform size 250×350 mm
- 4-wire connection
- Nominal sensitivity: 2 mV/V
- Note: Version in accordance with OIML R60 C4 or C5 on request

### CP P3

Single-point load cells made of anodised aluminium



- Accuracy in accordance with OIML R60 C3
- CE and RoHS compliant
- Dust and spray protection to IP65 (in accordance with EN 60529)
- Suitable for price-computing scales, bench scales, platform scales, etc.
- Maximum platform size 350×400 mm
- 4-wire connection
- Nominal sensitivity: 2 mV/V
- Note: Version in accordance with OIML R60 C4 on request

Model	Nominal load	Price excl. of VAT ex works €
<b>KERN</b>	kg	
CP 300-0P4	0,3	60,-
CP 600-0P4	0,6	60,-

Model	Nominal load	Price excl. of VAT ex works €
<b>KERN</b>	kg	
CP 3-3P1	3	50,-
CP 5-3P1	5	50,-
CP 6-3P1	6	50,-
CP 8-3P1	8	50,-
CP 10-3P1	10	50,-
CP 15-3P1	15	50,-
CP 20-3P1	20	50,-
CP 30-3P1	30	50,-
CP 35-3P1	35	50,-
CP 40-3P1	40	50,-
CP 50-3P1	50	50,-

Model	Nominal load	Price excl. of VAT ex works €
<b>KERN</b>	kg	
CP 50-3P3	50	65,-
CP 75-3P3	75	65,-



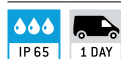
Tip: Further details and technical data sheet as well as extensive accessories can be found at [www.kern-sohn.com](http://www.kern-sohn.com)



### CP P2

Single-point load cells of aluminium

STANDARD



- Accuracy in accordance with OIML R60 C3
- Dust and spray protection to IP65 (in accordance with EN 60529)
- Aluminium, anodised
- Suitable for price-computing scales, bench scales, etc.
- Maximum platform size 100–300 kg: 400×400 mm
- Maximum platform size 400–500 kg: 450×450 mm
- Nominal sensitivity: 2 mV/V
- Note: Version in accordance with OIML R60 C4 or C5 on request

### CP P9

Single-point load cells of stainless steel

STANDARD



- Accuracy in accordance with OIML R60 C3
- Dust and spray protection to IP68/IP69K (in accordance with EN 60529), welded to create a hermetic seal
- Stainless steel
- Area of application: Measuring mass as well as compressive force in harsh environments
- Suitable for platform scales, checkweighers
- Maximum platform size 10–50 kg: 400×400 mm
- Maximum platform size 100–500 kg: 800×800 mm
- 4-wire connection (10–50 kg)
- 6-wire connection (100–500 kg)
- Nominal sensitivity: 2 mV/V
- Note: Version in accordance with OIML R60 C4 or C5 on request

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Model	Nominal load	Price excl. of VAT ex works €
<b>KERN</b>	kg	
CP 100-3P2	100	70,-
CP 150-3P2	150	70,-
CP 200-3P2	200	70,-
CP 300-3P2	300	70,-
CP 400-3P2	400	70,-
CP 500-3P2	500	70,-

Model	Nominal load	Price excl. of VAT ex works €
<b>KERN</b>	kg	
CP 10-3P9	10	330,-
CP 20-3P9	20	330,-
CP 50-3P9	50	330,-
CP 100-3P9	100	500,-
CP 200-3P9	200	500,-
CP 300-3P9	300	500,-
CP 400-3P9	400	500,-
CP 500-3P9	500	500,-



Tip: Further details and technical data sheet as well as extensive accessories can be found at [www.kern-sohn.com](http://www.kern-sohn.com)



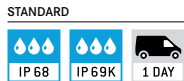
Fig. shows accessories, base plate 1 SAUTER CE Q30903 and bearings 2 SAUTER CE Q30904, for further accessories please visit our online shop



Fig. shows optional accessory load corner 3 SAUTER CE P4022

### CB Q1 · CB Q2

Bending beam measuring cells made from stainless steel



- Accuracy in accordance with OIML R60 C3
- CE and RoHS compliant
- Dust and spray protection to IP68/IP69K (in accordance with EN 60529), welded to create a hermetic seal
- Stainless steel
- Area of application: Measuring mass as well as compressive force in harsh environments
- Suitable for platform scales, weigh hoppers, floor scales and other weighing devices
- 4-wire connection
- Nominal sensitivity: 2 mV/V
- Note: Accuracy class OIML R60 C6 or EX version on request

Model	Nominal load	Price excl. of VAT ex works €
<b>KERN</b>	kg	
CB 5-3Q1	5	185,-
CB 10-3Q1	10	185,-
CB 20-3Q1	20	185,-
CB 30-3Q1	30	185,-
CB 50-3Q1	50	185,-
CB 75-3Q1	75	185,-
CB 100-3Q1	100	185,-
CB 150-3Q1	150	185,-
CB 200-3Q1	200	185,-
CB 250-3Q1	250	185,-
CB 300-3Q1	300	185,-
CB 500-3Q1	500	185,-
CB 750-3Q2	750	195,-
CB 1000-3Q2	1000	195,-
CB 1500-3Q2	1500	195,-

### CB P1

Bending beam made from stainless steel



- Accuracy in accordance with OIML R60 C3
- CE and RoHS compliant
- Dust and spray protection to IP67 (in accordance with EN 60529), hermetically encapsulated
- Nickel-plated steel
- Area of application: Measuring mass as well as compressive force in harsh environments
- Suitable for platform scales, silo scales, bed scales and other diverse scales
- 4-wire connection
- Nominal sensitivity: 3 mV/V

Model	Nominal load	Price excl. of VAT ex works €
<b>KERN</b>	kg	
CB 100-3P1	100	100,-
CB 250-3P1	250	100,-

### Accessories CB Q1 · CB Q2:

- Traction device, steel, galvanised, suitable for CB Q1, SAUTER CE Q30901, € 75,-
- Traction device, steel, rustproof, suitable for CB Q2, SAUTER CE Q34905, € 80,-
- 1 Base plate, steel, galvanised, suitable for CB Q1, SAUTER CE Q30903, € 90,-
- Base plate, steel, rustproof, suitable for CB Q1, SAUTER CE RQ30903, € 175,-
- Base plate, steel, rustproof, suitable for CB Q2, SAUTER CE Q34903, € 85,-
- 2 Bearing, steel, rustproof, suitable for CB Q1 (nominal load 5 kg–50 kg), SAUTER CE Q30904, € 105,-
- Bearing, steel, rustproof, suitable for CB Q1 (nominal load 75 kg–300 kg), SAUTER CE Q30905, € 105,-
- Bearing, steel, rustproof, suitable for CB 500-3Q1, SAUTER CE Q30906, € 180,-
- Bearing, steel, rustproof, suitable for CB 750-3Q2, CB 1000-3Q2, CB 1500-3Q2, SAUTER CE Q34906, € 165,-
- Load corner, steel, galvanised, suitable for CB Q1, SAUTER CE Q30907, € 195,-
- Load corner, steel, rustproof, suitable for CB Q1, SAUTER CE RQ30907, € 280,-
- Adjustable foot, steel, rustproof, suitable for SAUTER CE Q34901, € 60,-

### Accessories CB P1:

- Adjustable foot, steel, nickel-plated, load base M12 for CT 500-3P1, CT 1000-3P1 and CT 1500-3P1, SAUTER CE P2012, € 22,-
- 3 Load corner, steel, nickel-plated for CT 500-3P1, CT 1000-3P1 and CT 1500-3P1, SAUTER CE P4022, € 115,-
- Spacer plates for bending beam CB P1 made from steel, SAUTER CE P3012, € 8,-

! Tip: Further details and technical data sheet as well as extensive accessories can be found at [www.kern-sohn.com](http://www.kern-sohn.com)



Fig. shows optional accessory load corner 1 SAUTER CE RQ35903

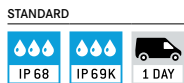


Fig. shows optional accessory load corner 2 SAUTER CE P4022



### CT Q1

Shear beam made from stainless steel



- Accuracy in accordance with OIML R60 C3
- CE and RoHS compliant
- Dust and spray protection to IP68/IP69K (in accordance with EN 60529), welded to create a hermetic seal
- Stainless steel
- Area of application: Measuring mass as well as compressive force in harsh environments
- Suitable for platform scales, weigh hoppers, flush-mounted floor scales and other weighing devices
- 6-wire connection
- Nominal sensitivity: 2 mV/V
- Note: EX version on request

### CT P1 · CT P2

Shear beam made from stainless steel



- Accuracy in accordance with OIML R60 C3
- CE and RoHS compliant
- Dust and spray protection to IP67 (in accordance with EN 60529), welded to create a hermetic seal
- Nickel-plated steel
- Area of application: Measuring mass as well as compressive force in harsh environments
- Suitable for platform scales, weigh hoppers, flush-mounted floor scales and other weighing devices
- 4-wire connection
- Nominal sensitivity: 3 mV/V
- Note: EX version, 6-wire connection and accuracy class C4 or C5 on request
- **CT P2:** Delivery with calibrated characteristic value, if several cells are ordered

#### Accessories CT Q1:

- Base plate, steel, rustproof, suitable for CT Q1, SAUTER CE RQ35911, € 185,-
- Base plate, steel, rustproof, suitable for CT 3000-3Q1, CT 5000-3Q1, SAUTER CE RQ35912, € 355,-
- Base plate, steel, rustproof, suitable for CT 7500-3Q1, CT 10000-3Q1, SAUTER CE RQ35919, € 780,-
- Bearing, steel, rustproof, suitable for CT Q1, SAUTER CE RQ35909, € 135,-
- Bearing, steel, rustproof, suitable for CT 3000-3Q1, CT 5000-3Q1, SAUTER CE RQ35910, € 260,-
- Bearing, steel, rustproof, suitable for CT 7500-3Q1, CT 10000-3Q1, SAUTER CE RQ35918, € 600,-
- Load corner, steel, rustproof, suitable for CT Q1, SAUTER CE RQ35902, € 350,-
- 1 Load corner, steel, rustproof, suitable for CT 3000-3Q1, CT 5000-3Q1, SAUTER CE RQ35903, € 515,-

#### Accessories CT P1:

- Load corner, steel, rustproof, suitable for CT 10000-3P1, CT 10000-3P2, SAUTER CE P40210, € 385,-
- 2 Load corner, steel, nickel-plated, suitable for CT 500-3P1, CT 1000-3P1, CT 1500-3P1, SAUTER CE P4022, € 115,-
- Load corner, steel, nickel-plated, suitable for CT 2500-3P1, CT 3000-3P1, CT 5000-3P1, SAUTER CE P4025, € 200,-
- Adjustable foot, steel, rustproof, suitable for CT 500-3P1, CT 1000-3P1, CT 1500-3P1, SAUTER CE P2012, € 22,-
- Adjustable foot, steel, rustproof, suitable for CT 2500-3P1, CT 3000-3P1, CT 5000-3P1, SAUTER CE P2018, € 29,-
- Adjustable foot, steel, rustproof, suitable for CT 10000-3P1, SAUTER CE P2024, € 85,-
- Spacer plate for CT 500-3P1, CT 500-3P2, CT 1000-3P1, CT 1000-3P2 and CT 1500-3P1, SAUTER CE P3012, € 8,-
- Spacer plate for CT 2500-3P1, CT 3000-3P1, CT 3000-3P2, CT 5000-3P1 and CT 5000-3P2 SAUTER CE P3015, € 8,-
- Spacer plate for CT 10000-3P1 and CT 10000-3P2 SAUTER CE P30110, € 8,-

Model	Nominal load	Price
KERN	kg	excl. of VAT ex works €
CT 300-3Q1	300	180,-
CT 500-3Q1	500	180,-
CT 750-3Q1	750	180,-
CT 1000-3Q1	1000	180,-
CT 1500-3Q1	1500	180,-
CT 2000-3Q1	2000	180,-
CT 3000-3Q1	3000	340,-
CT 5000-3Q1	5000	340,-
CT 7500-3Q1	7500	450,-
CT 10000-3Q1	10000	450,-

Model	Nominal load	Price
KERN	kg	excl. of VAT ex works €
CT 500-3P1	500	90,-
CT 1000-3P1	1000	90,-
CT 1500-3P1	1500	90,-
CT 2500-3P1	2500	110,-
CT 3000-3P1	3000	110,-
CT 5000-3P1	5000	110,-
CT 10000-3P1	10000	160,-
CT 500-3P2	500	95,-
CT 1000-3P2	1000	95,-
CT 3000-3P2	3000	115,-
CT 5000-3P2	5000	115,-
CT 10000-3P2	10000	165,-

! Tip: Further details and technical data sheet as well as extensive accessories can be found at [www.kern-sohn.com](http://www.kern-sohn.com)



CK P1



CK P2



CK P3



CK P4



CJ P4



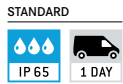
CJ P6



CJ P4PG

### CK P1-4

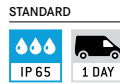
Miniature load cells made of aluminium



- Dust and spray protection to IP65 (in accordance with EN 60529)
- Aluminium
- High level of accuracy
- Suitable for small scales and kitchen scales and force-measuring devices
- 4-wire connection

### CJ P

Junctionbox CJ P for connecting several measuring cells to one evaluation unit



- Prepared for 4-wire and 6-wire measuring cells
- Models available for 2, 4, 6 or 8 load cells
- Robust aluminium die-cast housing with protection against dust and spray to IP65

Model	Nominal load	Price
KERN	kg	excl. of VAT ex works €
CK 600-0P1	0,6	27,-
CK 1-0P1	1	27,-
CK 2-0P1	2	27,-
CK 3-0P1	3	28,-
CK 5-0P1	5	27,-
CK 6-0P1	6	27,-
CK 300-0P2	0,3	41,-
CK 600-0P2	0,6	41,-
CK 1000-0P3	1	24,-
CK 100-0P4	0,1	35,-
CK 120-0P4	0,12	35,-
CK 300-0P4	0,3	35,-
CK 500-0P4	0,5	35,-

Model	Number of connections	Price
KERN		excl. of VAT ex works €
CJ P2	2	75,-
CJ P4	4	75,-
CJ P4PG	4	80,-
CJ P6	6	95,-
CJ P8	8	95,-

**!** Tip: Further details and technical data sheet as well as extensive accessories can be found at [www.kern-sohn.com](http://www.kern-sohn.com)

## Pallet truck scales

### Weighing and transporting – just one operation

Speed up your warehouse and dispatch processes with the KERN pallet truck scales.

Get the exact weight of a load and at the same time, transport it to a specific location, all in one operation. This reduces commissioning times and avoids queues in front of fixed floor scales.







These mobile weighing solutions are space-saving and deliver reliable weighing results. Differences between given and actual weights can be determined quickly e.g. in the goods-in and out department. This uncovers inaccurate quantities, saves time and money and therefore ensures a very short amortisation period of the scales original cost.

KERN offers a carefully coordinated range from the affordable entry level model to the comfort model with removable battery pack.

KERN pallet truck scales are of robust industrial quality, with high-level protection against dust and water splashes, with high-contrast, easy-to-read displays as well as solid wheels and load rollers – all this helps to give you practical support in your work – day after day.

Of course, all KERN pallet truck scales can also be calibrated and delivered with a DAkkS calibration certificate (optional). This ensures the high level of accuracy of your pallet truck scale.

### Quick-Finder Pallet truck scales

Readability [d] kg	Weighing capacity [Max] kg	Model  KERN	Price excl. of VAT ex works €	Page	 DAYS	 CAL EXT	 SUM	 IP	 BATT	 ACCU
1	2000	VHB 2T1	1320,-	153	2	●	●	●	●	○
For an explanation on the pictos, see front flap										
● = standard ○ = option										



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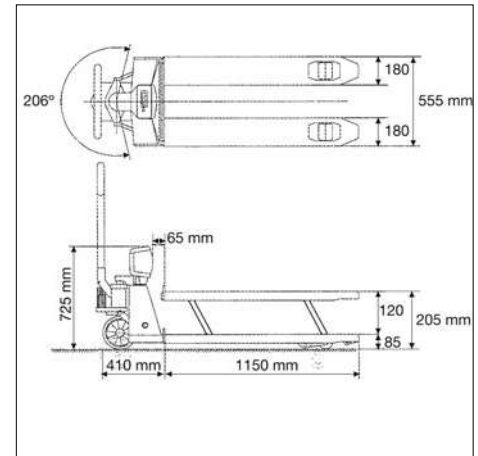


only €  
**1320,-**

- ▷ The power pack in the dispatch department and the warehouse
- ▷ The display device is well-protected by a metal frame
- ▷ Optimised load rollers so that you can get over rough ground more easily and greater manoeuvrability

# HIGHLIGHT





Pallet truck scale with complete protection against dust and water splashes IP65/67 and a memory for a container weight

**Features**

- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **1 Display device:** plastic, protection against dust and water splashes IP65
- **2 Load fork:** Protection against dust and water splashes IP67, temporary use in wet areas possible
- **Pivot range 206°**
- **Castors:** Solid rubber on aluminium rims
- **3 Load rollers:** Tandem tyres to overcome thresholds and obstacles more easily
- **Totalising** of weights
- **Ready for use:** Batteries included, 4×1.5 V AA, operating time up to 80 h

**Technical data**

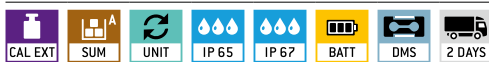
- Large LCD display, digit height 28 mm
- Permissible ambient temperature -10 °C/40 °C

**Accessories**

- Castors made of red polyurethane on aluminium rims. Ideal for light-coloured flooring as they leave less visible abrasive marks. Suitable for the current models of the pallet truck scale range KERN VHB (when retrofitting, please give the serial number of the pallet truck scale available when ordering), scope of delivery: 1 item, KERN VHB-A02, € 160,-

1 Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping

STANDARD



OPTION



Model	Weighing capacity	Readability	Net weight	Price excl. of VAT ex works €	Option	
					DAkkS KERN	Certificate €
KERN VHB 2T1	[Max] kg 2000	[d] kg 1	approx. kg 110	<b>1320,-</b>	963-131	220,-

## Hanging scales/Crane scales

### TÜV-tested safety

KERN puts great emphasis on safety. For your safety, all KERN hanging and crane scales are subject to a stringent load test in accordance with EN 13155 and (Non-fixed load lifting attachments/breakage resistance) and EN 61010-1 (Electrical safety).

As well as the classic crane scales, we also have electronic tensile dynamometers which are extremely versatile thanks to their stable, compact construction. They can, for example, be fitted into testing machines, used for checking for overload, for bracing and tensile force measurement, etc.

This type of device is ideally suited for use between shackles or with a test bench. This is where the benefit of this construction comes to the fore, as the tensile force can be applied in both directions. These compact crane scales are also particularly suitable when weighing suspended loads where space is tight.

At the core of this construction is a robust load cell. Through the absence of moving parts, these balances are practical in maintenance and wear free.

### Note

#### DAkkS calibration and conformity evaluation for crane scales up to 12 t



Do you use your crane scales in ISO-certified processes or where verification is mandatory? Then we can produce the right calibration certificate or the relevant Declaration of Conformity for your measuring device. Thanks to a modern crane scale test unit, we can calibrate or verify crane scales and force-measuring devices from any manufacturer to a maximum load of up to 12 t or 120 kN. You can find all the important details on pages 214, 219 or directly from one of our test service specialists, we will be pleased to help you.



**Lisa Haib**  
Product specialist  
Hanging scales/Crane scales  
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from €  
**370,-**

- ▷ Triple-range scale: Ideal, when high maximum loads need to be weighed, but in the lower load range you still need high resolution. This means that three balances can be replaced with one – which saves space and money!
- ▷ Also available with high protection type IP67!
- ▷ NEW: Also available as version with calibration approval !

# HIGHLIGHT

# Quick-Finder Hanging scales/Crane scales

Readability	Weighing capacity	Model	Price excl. of VAT ex works €	Page									
[d] kg	[Max] kg	KERN			For an explanation on the pictos, see front flap								
0,005		5	HDB 5K5N	60,-	158	1		●		●			●
0,005		6	HDB 6K-3XL	78,-	159	1		●					●
0,01		10	HDB 10K10N	60,-	158	1		●		●			●
0,01		15	HDB 10K-2XL	78,-	159	1							●
0,01		20	HCB 20K10	105,-	160	1		●		●			●
0,01		50	HGA 50K-2S05	80,-*	156	1		●					
0,02		15	CH 15K20	69,-	157	1		●		●			●
0,02		30	HDB 30K-2XL	78,-	159	1		●					●
0,02		50	HCB 50K20	115,-	160	1		●		●			●
0,02		60	HCD 60K-2	195,-	162	1		●					●
0,02   0,05	60   150	HCD 100K-2D	205,-	162	1		●						●
0,05		50	CH 50K50	75,-	157	1		●		●			●
0,05		99	HCB 99K50	100,-	160	1		●		●			●
0,05		150	HCD 100K-2	195,-	162	1		●					●
0,05		150	HFB 150K50	345,-	165	1		●					●
0,05   0,1	150   300	HCD 300K-2D	205,-	162	1		●						●
0,05   0,1   0,2	150   300   600	HFD 600K-1	370,-	166	1		●						●
0,05   0,1   0,2	150   300   600	HFD 600K-1IP	570,-	166	1		●			●			●
0,1		50	CH 50K100	65,-	157	1		●		●			●
0,1		50	HCB 50K100	90,-	160	1		●		●			●
0,1		50	HCN 50K100IP	130,-	161	1		●		●	●		●
0,1		200	HCB 200K100	115,-	160	1		●		●			●
0,1		300	HCD 300K-1	195,-	162	1		●					●
0,1		300	HFB 300K100	375,-	165	1		●					●
0,1		1000	HFM 1T0.1	690,-	168	1		●					●
0,1   0,2   0,5	300   600   1500	HFD 1T-4	390,-	166	1		●						●
0,1   0,2   0,5	300   600   1500	HFD 1T-4IP	580,-	166	1		●			●			●
0,2		100	HCB 100K200	99,-	160	1		●		●			●
0,2		100	HCN 100K200IP	130,-	161	1		●		●	●		●
0,2		600	HFA 600K-1	560,-	163	1		●					●
0,2		600	HFC 600K-1	890,-	164	1		●					●
0,2		600	HFB 600K200	375,-	165	1		●					●
0,2		600	HFD 600K-1M	465,-	166	1	○	●					●
0,2		1500	HFD 1T-4M	470,-	166	1	○	●					●
0,2   0,5   1	600   1500   3000	HFD 3T-3	590,-	166	1		●						●
0,2   0,5   1	600   1500   3000	HFD 3T-3IP	790,-	166	1		●			●			●
0,5		200	HCB 200K500	95,-	160	1		●		●			●
0,5		200	HCN 200K500IP	130,-	161	1		●		●	●		●
0,5		1000	HFA 1T-4	580,-	163	1		●					●
0,5		1000	HFC 1T-4	890,-	164	1		●					●
0,5		1500	HFD 1T-4M	470,-	166	1		●					●
0,5		1500	HFO 1.5T0.5M	1030,-	169	1	○	●					●
0,5		3000	HFM 3T0.5	710,-	168	1		●					●
0,5		5000	HFM 5T0.5	930,-	168	1		●					●
0,5   1   2	1500   3000   6000	HFD 6T-3	640,-	166	1		●						●
0,5   1   2	1500   3000   6000	HFD 6T-3IP	840,-	166	1		●			●			●
1		500	HCB 0.5T-3	190,-	160	1		●		●			●
1		3000	HFA 3T-3	630,-	163	1		●					●
1		3000	HFC 3T-3	950,-	164	1		●					●
1		3000	HFD 3T-3M	620,-	166	1		●					●
1		3000	HFO 3T1M	1130,-	169	1	○	●					●
1		10000	HFM 10T1	1260,-	168	2**		●					●
1   2   5	3000   6000   12000	HFD 10T-3	760,-	166	1		●						●
1   2   5	3000   6000   12000	HFD 10T-3IP	960,-	166	1		●			●			●
2		1000	HCB 1T-3	250,-	160	1		●		●			●
2		5000	HFA 5T-3	690,-	163	1		●					●
2		5000	HFC 5T-3	1020,-	164	1		●					●
2		6000	HFD 6T-3M	770,-	166	1	○	●					●
2		6000	HFO 6T2M	1400,-	169	2**	○	●					●
5		10000	HFA 10T-3	1090,-	163	1		●					●
5		10000	HFC 10T-3	1410,-	164	1		●					●
5		12000	HFD 10T-3M	890,-	166	1	○	●					●

□ News 2020

\* Price set of 5 units

\*\* Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

● = standard ○ = option



Ultra compact, digital luggage scale for rapid weighing of items of luggage and other suspended loads

**Features**

- This ergonomically-optimised luggage scale is perfectly suited for rapid, accurate checking of cases, bags, sports baggage, etc. The high maximum load means that there is sufficient safety reserve and can therefore also be used for weighing other, suspended loads
- Ergonomic design for easy handling
- Robust nylon fabric tape for secure fixing of the item to be weighed
- **Simple and convenient 1-key operation**
- Easy to toggle between units by a keypress
- **High mobility:** thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations
- Automatic Hold function: When the weighing value remains unchanged the weight indicated on the display is automatically “frozen” for 12 s. This leaves sufficient time to read the weight in peace

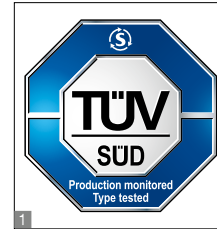
**Technical data**

- LCD display, digit height 9 mm
- Ready for use: Batteries included, 3V CR2032, operating time up to 20 h, AUTO-OFF function to preserve the battery, Battery level indicator on display
- **Note:** The models are only delivered in a set of 5 units. i.e. the price given in the table refers to a delivery of 5 items. Cannot be delivered individually. The calibration prices given here refer to calibration of a single balance

STANDARD				OPTION
UNIT	BATT	DMS	1 DAY	+3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Dimensions housing W×D×H mm	Net weight approx. kg	Quantity delivered (balance)	Price excl. of VAT ex works €	Option		Quantity delivered (DAkKS Calibr. Certificate)
							DAkKS Calibr. Certificate	€	
KERN HGA 50K-2S05	50	10	150×31×35	1,6	5	80,-*	963-128	88,-	1

\* Price set of 5 units



The classic among hand-held hanging scales – perfect for fast weighing of increased loads

**Features**

- **1** With the **TÜV certification mark**, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- Ideal for rapid control in goods-in and goods-out
- Also essential in the private sector to determine the weight of fish, game, fruits, bicycle parts, suitcases etc.
- **Hold function:** For easy reading of the weighing result, the display can be “frozen” in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- **Hook, steel**
- **Peak load display** (peak hold)

**Technical data**

- LCD display, digit height 11 mm
- **2 Tape measure**, extractable, length approx. 100 cm
- Ready for use: Batteries included, 9 V block, operating time up to 20 h
- Further weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

**Accessories**

- **3 Tare pan with pan beam**, details see *Accessories*, KERN CH-A01N, **€ 70,-**

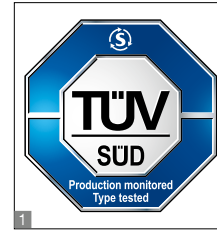
STANDARD

CAL EXT UNIT MOVE BATT DMS 1 DAY

OPTION

DAkkS +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Dimensions housing W×D×H mm	Net weight approx. kg	Price excl. of VAT ex works €	Option	
						DAkkS KERN	DAkkS Calibr. Certificate €
CH 15K20	15	20	90×30×176,5	0,35	69,-	963-128H	88,-
CH 50K50	50	50	90×30×176,5	0,35	75,-	963-128H	88,-
CH 50K100	50	100	90×30×176,5	0,35	65,-	963-128H	88,-



## Practical hand hanging scale for fast and mobile weighing

### Features

- **1** With the **TÜV certification mark**, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- Ideal for rapid control in goods-in and goods-out
- Also essential in the private sector to determine the weight of fish, game, fruits, bicycle parts, suitcases etc.
- **Hold function:** For easy reading of the weighing result, the display can be “frozen” in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- **Hook, steel**, can be hinged
- **Peak load display** (peak hold)

### Technical data

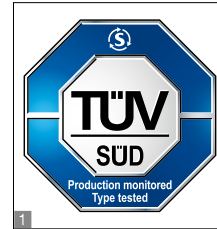
- LCD display, digit height 12 mm
- **Ready for use:** Batteries included, 2×1.5 V AAA, operating time up to 180 h
- Further weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

### Accessories

- **2** **Tare pan with pan beam**, details see *Accessories*, KERN CH-A01N, **€ 70,-**



Model	Weighing capacity [Max] kg	Readability [d] g	Dimensions housing W×D×H mm	Net weight approx. kg	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate	
						DAkkS KERN	€
<b>HDB 5K5N</b>	5	5	72×25×105	0,20	<b>60,-</b>	963-127H	72,-
<b>HDB 10K10N</b>	10	10	72×25×105	0,45	<b>60,-</b>	963-128H	88,-



## Comfortable hand-held suspension scale for fast and mobile weighing

### Features

- High-capacity XL-version. The larger design creates space for a large handle, which enables even better handling especially with heavier loads
- **1** With the **TÜV certification mark**, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- Ideal for rapid control in goods-in and goods-out
- Also essential in the private sector to determine the weight of fish, game, fruits, bicycle parts, suitcases etc.
- **Hold function:** For easy reading of the weighing result, the display can be “frozen” in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- **Hook, steel**, can be hinged
- **Peak load display** (peak hold)

### Technical data

- LCD display, digit height 12 mm
- **Ready for use:** Batteries included, 2×1.5 V AAA, operating time up to 180 h
- Further weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

### Accessories

- **2** **Tare pan with pan beam**, details see *Accessories*, KERN CH-A01N, **€ 70,-**

STANDARD

CAL EXT UNIT MOVE BATT DMS 1 DAY

OPTION

DAkkS +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Dimensions housing W×D×H mm	Net weight approx. kg	Price excl. of VAT ex works €	Option	
						DAkkS KERN	DAkkS Calibr. Certificate €
<b>HDB 6K-3XL</b>	6	5	107×25×101	0,20	<b>78,-</b>	963-128H	88,-
<b>HDB 10K-2XL</b>	15	10	107×25×101	0,20	<b>78,-</b>	963-128H	88,-
<b>HDB 30K-2XL</b>	30	20	107×25×101	0,20	<b>78,-</b>	963-128H	88,-



## Handy suspension scale for increased loads

### Features

- **1** With the **TÜV certification mark**, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- Ideal for rapid control in goods-in and goods-out
- Also essential in the private sector to determine the weight of fish, game, fruits, bicycle parts, suitcases etc.
- **Hold function:** For easy reading of the weighing result, the display can be "frozen" in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- **Peak load display** (peak hold), Measuring frequency 5 Hz
- **[Max] ≤ 200 kg: Carabiner (stainless steel)** with safety catch as standard
- **[Max] ≤ 200 kg: Hook (stainless steel)** standard

- **2** [Max] ≥ 0,5 t: Reinforced version for heavy loads. Snap link and Hook not included

### Technical data

- LCD display, digit height 12 mm
- Hole diameter of load support, model with [Max] ≤ 200 kg: approx. 14 mm [Max] > 200 kg: approx. 16 mm
- **Ready for use:** Batteries included, 3×1.5 V AA, operating time up to 300 h

### Accessories

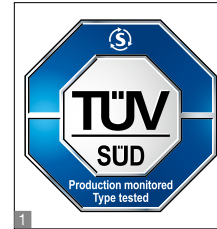
- Accessories for models with [Max] ≤ 20 kg**
  - **Tare pan with pan beam**, details see Accessories, KERN CH-A01N, € 70,-
- Accessories for models with [Max] ≥ 100 kg**
  - **3 Hook with safety catch**, cast steel, galvanised and lacquered, revolving. Scope of delivery: 2 shackles, 1 lacquered screw bolt, 1 hook, KERN YHA-06, € 125,-
- Accessories for models with [Max] ≤ 200 kg**
  - **Snap link (stainless steel) with safety catch**, opening approx. 15 mm, KERN HCB-A01, € 33,-
  - **Hook (stainless steel)**, opening approx. 25 mm, KERN HCB-A02, € 30,-
- Accessories for models with [Max] ≥ 0,5 t**
  - **4 High-strength shackle**, hot-dipped galvanised cast steel bracket, bow shaped. Scope of delivery: 2 shackles with lacquered screw bolts, suitable for models KERN HCB with [Max] ≥ 0,5 t, KERN YSC-03, € 50,-

STANDARD					OPTION	
CAL EXT	UNIT	MOVE	BATT	1 DAY	DAkKS	+3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Dimensions housing W×D×H mm	Net weight approx. kg	Price excl. of VAT ex works €	Option	
						DAkKS KERN	Calibr. Certificate €
<b>KERN</b>							
<b>HCB 20K10</b>	20	10	82×43×153	0,60	<b>105,-</b>	963-128H	88,-
<b>HCB 50K20</b>	50	20	82×43×153	0,60	<b>115,-</b>	963-128H	88,-
<b>HCB 50K100</b>	50	100	82×43×153	0,60	<b>90,-</b>	963-128H	88,-
<b>HCB 99K50</b>	99	50	82×43×153	0,60	<b>100,-</b>	963-129H	105,-
<b>HCB 100K200</b>	100	200	82×43×153	0,60	<b>99,-</b>	963-129H	105,-
<b>HCB 200K100</b>	200	100	82×43×153	0,60	<b>115,-</b>	963-129H	105,-
<b>HCB 200K500</b>	200	500	82×43×153	0,60	<b>95,-</b>	963-129H	105,-
<b>HCB 0.5T-3</b>	500	1000	82×43×153	0,30	<b>190,-</b> ↓	963-130H	165,-
<b>HCB 1T-3</b>	1000	2000	82×43×153	0,30	<b>250,-</b> ↓	963-130H	165,-

↓ Price reduction





Robust and compact suspended scale with high degree of protection against dust and splash water

**Features**

- **1** With the **TÜV certification mark**, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- Housing stainless steel, IP65-protected against dust and water splashes
- Ideal for rapid control in goods-in and goods-out
- Also essential in the private sector to determine the weight of fish, game, fruits, bicycle parts, suitcases etc.
- **Hold function:** For easy reading of the weighing result, the display can be “frozen” in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- **Peak load display** (peak hold), Measuring frequency 5 Hz
- **Carabiner (stainless steel)** with safety catch as standard
- **Hook (stainless steel)** standard

**Technical data**

- LCD display, digit height 12 mm
- Hole diameter of load support, model with [Max] ≤ 200 kg: approx. 14 mm [Max] > 200 kg: approx. 16 mm
- **2 Second display** on the rear of the balance
- Ready for use: Batteries included, 2×1.5 V AA, operating time up to 200 h

**Accessories**

**Accessories for models with [Max] ≥ 100 kg**

- **3 Hook with safety catch**, cast steel, galvanised and lacquered, revolving. Scope of delivery: 2 shackles, 1 lacquered screw bolt, 1 hook, KERN YHA-06, **€ 125,-**
- **Snap link (stainless steel) with safety catch**, standard, opening approx. 15 mm. Can be reordered, KERN HCB-A01, **€ 33,-**
- **Hook (stainless steel)**, opening approx. 25 mm, KERN HCB-A02, **€ 30,-**

STANDARD

CAL EXT UNIT MOVE IP 65 INOX BATT 1 DAY

OPTION

DAkkS +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Dimensions housing W×D×H mm	Net weight approx. kg	Price excl. of VAT ex works €	Option	
						DAkkS KERN	DAkkS Calibr. Certificate €
KERN HCN 50K100IP	50	100	96×48×179	0,80	<b>130,-</b>	963-128H	88,-
KERN HCN 100K200IP	100	200	96×48×179	0,80	<b>130,-</b>	963-129H	105,-
KERN HCN 200K500IP	200	500	96×48×179	0,80	<b>130,-</b>	963-129H	105,-



## High-resolution hanging scale for loads up to 300 kg

### Features

- **NEW: Fully-equipped crane scale** for low to medium load ranges. The solid design guarantees that extra level of safety (TÜV tested). Thanks to the large LCD display and the remote control which is delivered as standard, it can also be operated safely from a distance and results can be read off
- **1** With the **TÜV certification mark**, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- **High mobility:** thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- **Hold function:** For easy reading of the weighing result, the display can be “frozen” in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key

- **Tare:** Resets the display to “0” when there is a load on the scale. Now removed or added loads are directly displayed
- Batterie charge status indication visualised through LED
- Large high-contrast display that is easy to read
- Standby function: display automatically switched off after 5 min without a change of load. Automatic activation with the touch of a key
- **Hook with safety catch**, revolving
- Shackle and safety catch made of nickel-plated steel
- **2** **Infrared remote control** standard. Range up to 20 m. All functions can be selected. W×D×H 65×24×100 mm. Batteries included

### Technical data

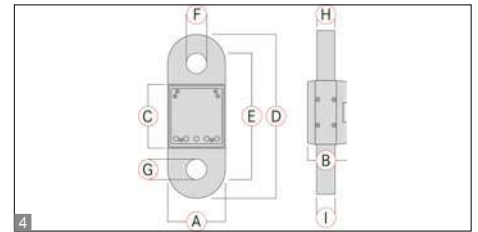
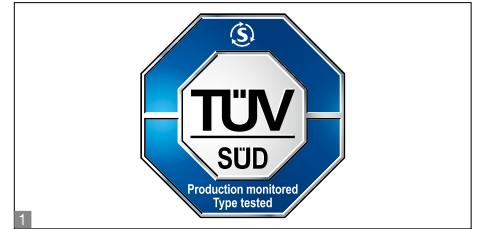
- Backlit LCD display, digit height 28 mm
- Batteries included, 4×1.5 V AA, operating time up to 100 h
- Precision: 0,2 % of [Max]
- Permissible ambient temperature 5 °C/35 °C

### Accessories

- **Internal rechargeable battery pack** for load receptor, operating time up to 50 h without backlight, charging time approx. 12 h, KERN HCD-A01, € 50,-



Model	Weighing capacity [Max] kg	Readability [d] g	Net weight approx. kg	3 Dimensions							Price excl. of VAT ex works €	Option	
				A mm	B mm	C mm	D mm	E mm	F mm	G mm		DAkKS KERN	Certificate €
KERN HCD 60K-2	60	20	0,85	150	79	97	276	250	26	18	195,-	963-129H	105,-
KERN HCD 100K-2	150	50	0,85	150	79	97	276	250	26	18	195,-	963-129H	105,-
KERN HCD 300K-1	300	100	0,85	150	79	97	276	250	26	18	195,-	963-129H	105,-
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readability [d]													
KERN HCD 100K-2D	60   150	20   50	0,85	150	79	97	276	250	26	18	205,-	963-129H	105,-
KERN HCD 300K-2D	150   300	50   100	0,85	150	79	97	276	250	26	18	205,-	963-129H	105,-



Compact crane scale with integrated display can also be used for tensile force measurement

**Features**

- **1** With the **TÜV certification mark**, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- With its high-quality finish, low weight and compact dimensions, this crane scale (tensile force gauge) is an essential device for industrial use, on building sites, in freight centres, ports etc.
- Because of its compact design it is also ideally suited for installation in systems where space is limited, etc.
- Ideally suited for determining weight quickly while loading and unloading
- **Peak load display** (peak hold)
- **Hold function:** For easy reading of the weighing result, the display can be “frozen” in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key

- **Tare:** Resets the display to “0” when there is a load on the scale. Now removed or added loads are directly displayed

**Technical data**

- Large backlit LCD display, digit height 23 mm
- Material and design of housing/load support, models with [Max] ≤ 3 t: aluminium/stainless steel bearing [Max] > 3 t: steel/steel
- Rechargeable battery pack internal, operating time up to 30 h without backlight, charging time approx. 12 h
- Optional battery operation, 3×1.5 V AA not included in scope of delivery, operating time up to 40 h
- Precision: 0,2 % of [Max]
- Measuring frequency 60 Hz
- Further weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

**Accessories**

- **2 High-strength shackle**, hot-dipped galvanised cast steel bracket, bow shaped. Scope of delivery: 2 shackles with lacquered screw bolts, suitable for models with [Max] ≤ 5 t: KERN YSC-01, **€ 100,-** [Max] > 5 t: KERN YSC-02, **€ 210,-**
- **3 Hook with safety catch**, cast steel, galvanised and lacquered, non-revolving. Scope of delivery: 2 shackles, 1 lacquered screw bolt, 1 hook, suitable for models with [Max] ≤ 1 t: KERN YHA-01, **€ 170,-** [Max] = 3 t: KERN YHA-02, **€ 190,-** [Max] = 5 t: KERN YHA-03, **€ 230,-** [Max] > 5 t: KERN YHA-04, **€ 410,-**

STANDARD

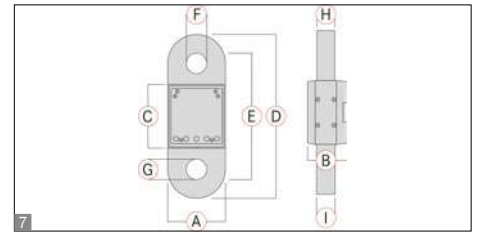
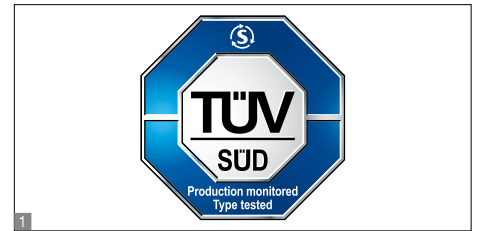
CAL EXT UNIT BATT ACCU MULTI DMS 1 DAY

OPTION

DAkks +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Net weight approx. kg	4 Dimensions					Price excl. of VAT ex works €	Option	
				A mm	B mm	C mm	D mm	F mm		DAkks Calibr. Certificate	
										DAkks KERN	€
<b>HFA 600K-1</b>	600	200	1,8	90	30	55	255	27	<b>560,-</b> ↓	963-130H	165,-
<b>HFA 1T-4</b>	1000	500	1,8	90	30	55	255	27	<b>580,-</b> ↓	963-130H	165,-
<b>HFA 3T-3</b>	3000	1000	2,0	90	30	61	255	27	<b>630,-</b> ↓	963-132H	500,-
<b>HFA 5T-3</b>	5000	2000	4,0	90	30	61	255	30	<b>690,-</b> ↓	963-132H	500,-
<b>HFA 10T-3</b>	10000	5000	6	90	40	71	275	40	<b>1090,-</b>	963-133H	700,-

↓ Price reduction



Compact crane scale for use in harsh environmental conditions or where space is limited, with convenient hand-held terminal

**Features**

- **1** With the **TÜV certification mark**, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- With its high-quality finish, low weight and compact dimensions, this crane scale (tensile force gauge) is an essential device for industrial use, on building sites, in freight centres, ports etc.
- Because of its compact design it is also ideally suited for installation in systems where space is limited, etc.
- **Peak load display** (peak hold)
- **Hold function:** When the weighing value remains unchanged the weight indicated on the display is automatically “frozen” until the Hold key is pressed
- **Tare:** Resets the display to “0” when there is a load on the scale. Now removed or added loads are directly displayed

- **2 Display device with integrated radio module**, which the user can carry around with him, thanks to the convenient hand strap **3**, standard. In this way the weighing data can always be read off the display device by the user, even when the user is a long way from the load receptor (force gauge) or under poor lighting conditions. Range up to 100 m, LCD display, digit height 23 mm, rechargeable battery pack internal, standard. Operating time up to 30 h without backlight, charging time approx. 12 h. Can be reordered, KERN HFC-A01, **€ 60,-**
- Dimensions housing (display device) W×D×H 88×64×256 mm
- Net weight 0,4 kg

**Technical data**

- Large backlit LCD display, digit height 23 mm
- Material and design of housing/load support, models with [Max] ≤ 3 t: aluminium/stainless steel bearing [Max] > 3 t: steel/steel

- Optional battery operation, 3×1.5 V AA not included in scope of delivery, operating time up to 40 h
- Precision: 0,2 % of [Max]
- Measuring frequency 10 Hz
- Further weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

**Accessories**

- **4 Rechargeable battery pack internal** for load support, operating time up to 30 h, without backlight, charging time approx. 12 h, KERN HFA-A01, **€ 40,-**
- **5 High-strength shackle**, hot-dipped galvanised cast steel bracket, bow shaped. Scope of delivery: 2 shackles with lacquered screw bolts, suitable for models with [Max] ≤ 5t: KERN YSC-01, **€ 100,-** [Max] > 5t: KERN YSC-02, **€ 210,-**
- **6 Hook with safety catch**, cast steel, galvanised and lacquered, non-revolving. Scope of delivery: 2 shackles, 1 lacquered screw bolt, 1 hook, suitable for models with [Max] ≤ 1t: KERN YHA-01, **€ 170,-** [Max] = 3t: KERN YHA-02, **€ 190,-** [Max] = 5t: KERN YHA-03, **€ 230,-** [Max] > 5t: KERN YHA-04, **€ 410,-**

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STANDARD

CAL EXT UNIT BATT ACCU MULTI DMS 1 DAY

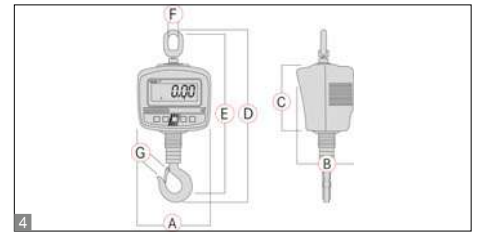
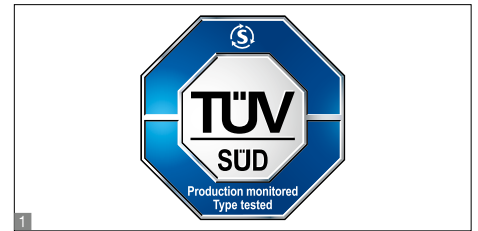
load receptors only

OPTION

ACCU DAKKS +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Net weight approx. kg	7 Dimensions					Price excl. of VAT ex works €	Option	
				A	B	C	D	F		DAkKS	Calibr. Certificate
KERN HFC 600K-1	600	200	1,8	90	30	55	255	27	890,-	963-130H	165,-
HFC 1T-4	1000	500	1,8	90	30	55	255	27	890,-	963-130H	165,-
HFC 3T-3	3000	1000	2,2	90	30	61	255	27	950,-	963-132H	500,-
HFC 5T-3	5000	2000	4,0	90	30	61	255	30	1020,-	963-132H	500,-
HFC 10T-3	10000	5000	6	90	40	71	275	40	1410,-	963-133H	700,-

Price reduction



The professional alternative up to 600 kg with rear-facing second display

**Features**

- **1** With the **TÜV certification mark**, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- **2** **Second display** on the rear of the balance
- **High mobility:** thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- **Hold function:** When the weighing value remains unchanged the weight indicated on the display is automatically "frozen" until the Hold key is pressed
- **Tare:** Resets the display to "0" when there is a load on the scale. Now removed or added loads are directly displayed
- **Hook with safety catch**, revolving
- Shackle and safety catch made of nickel-plated steel
- **3** **Radio remote control** standard. Range up to 20 m. All functions can be selected (excl. ON/OFF). W×D×H 48×10×95 mm. Batteries included, 1×12 V 23A

**Technical data**

- **Superior display size:** digit height 25 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- Display device
- Dimensions housing W×D×H 162×123×390 mm
- Rechargeable battery pack internal, operating time up to 30 h without backlight, charging time approx. 14 h
- Precision: 0,2 % of [Max]
- Permissible ambient temperature 0 °C/40 °C

STANDARD

CAL EXT UNIT ACCU MULTI DMS 1 DAY

OPTION

DAKkS +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Net weight approx. kg	4 Dimensions							Price excl. of VAT ex works €	Option	
				A mm	B mm	C mm	D mm	E mm	F mm	G mm		DAKkS KERN	DAKkS Calibr. Certificate €
KERN HFB 150K50	150	50	2,2	163	126	158,5	390	358	26	25	345,-	963-129H	105,-
KERN HFB 300K100	300	100	2,2	163	126	158,5	390	358	26	25	375,-	963-129H	105,-
KERN HFB 600K200	600	200	2,4	163	126	158,5	390	358	26	25	375,-	963-130H	165,-



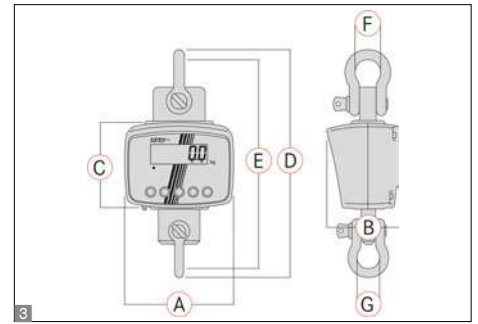
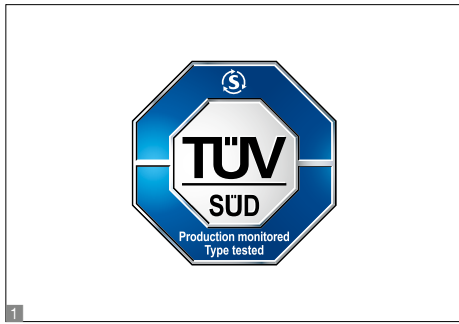
Robust, high-resolution crane scale up to 12 t, now also with EC type approval [M] or protection type IP67



**High mobility**  
thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)

**Solid shackles, non-revolving**

**Radio remote control standard.** Range up to 20 m. All functions can be selected (excl. ON/OFF). W×D×H 65×24×100 mm. Batteries included, 1× 12 V 23A



**Features**

- **NEW:** The models with **M** add-on have EC type approval and because of this they are ideal for use in verified applications such as, for example, calculation of a total price, based on weight
- Supports you in SOLAS-compliant weighing of your cargoes
- **NEW:** The models with **IP** add-on have special protection against dust and water splashes to IP67 and because of this they are ideal for use in harsh environments
- **1** With the **TÜV certification mark**, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- **Because of its stable construction and robust design**, it is ideal for continuous use in industrial environment
- **Hold function:** When the weighing value remains unchanged the weight indicated on the display is automatically “frozen” until the Hold key is pressed
- **Tare:** Resets the display to “0” when there is a load on the scale. Now removed or added loads are directly displayed

**Technical data**

- **Superior display size:** digit height 30 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- Rechargeable battery pack internal, operating time up to 70 h without backlight,, battery pack accessible from the outside, which means it is easy to replace
- Precision: 0,2 % of [Max]
- Permissible ambient temperature -10 °C/40 °C

**Accessories**

- **Rechargeable battery pack internal** for load support, operating time up to 70 h, without backlight, charging time approx. 12 h, KERN HFD-A04, **€ 70,-**
- **2 Hook with safety catch**, cast steel, galvanised and lacquered, non-revolving, suitable for models HFD 600, HFD 1T: KERN HFD-A01, **€ 45,-**  
HFD 3T: KERN HFD-A02, **€ 60,-**  
HFD 6T, HFD 10T: KERN HFD-A03, **€ 95,-**
- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase, HFD-A06, **€ 210,-**

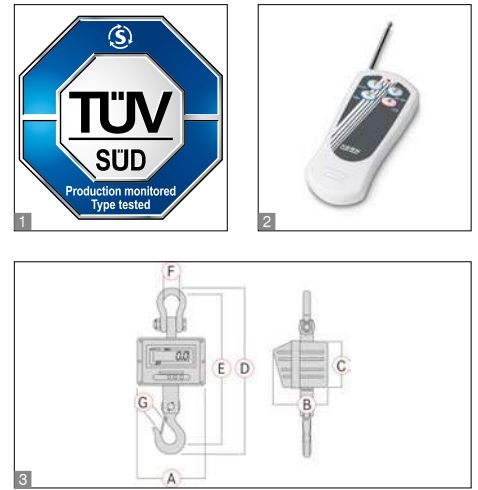
STANDARD      OPTION      FACTORY

CAL EXT   
 IP 67   
 ACCU   
 MULTI   
 DMS   
 1 DAY   
 DAkkS +3 DAYS   
 BT 4.0   
 M HFD-M

Model	Weighing capacity [Max] kg	Readability [d] g	Net weight approx. kg	3 Dimensions							Price excl. of VAT ex works €	Option			
				A	B	C	D	E	F = G	Verification		DAkkS Calibr. Certificate			
KERN				mm	mm	mm	mm	mm	mm		KERN	€	DAkkS KERN	€	
Triple range balance switches automatically to the next largest weighing capacity [Max] and readability [d]															
HFD 600K-1	150   300   600	50   100   200	9	194	129	145	421	383	50,8	<b>370,-</b>	-	-	963-130H	165,-	
HFD 1T-4	300   600   1500	100   200   500	9	194	129	145	421	383	50,8	<b>380,-</b> ↓	-	-	963-130H	165,-	
HFD 3T-3	600   1500   3000	200   500   1000	10	194	129	145	421	383	50,8	<b>590,-</b> ↓	-	-	963-132H	500,-	
HFD 6T-3	1500   3000   6000	500   1000   2000	15	194	129	145	477	426	68,3	<b>640,-</b> ↓	-	-	963-132H	500,-	
HFD 10T-3	3000   6000   12000	1000   2000   5000	20	194	129	145	573	510	82,5	<b>760,-</b> ↓	-	-	963-133H	700,-	
Protection against dust and water splashes IP67															
HFD 600K-1IP	150   300   600	50   100   200	9	194	129	145	421	383	50,8	<b>570,-</b>	-	-	963-130H	165,-	
HFD 1T-4IP	300   600   1500	100   200   500	9	194	129	145	421	383	50,8	<b>580,-</b>	-	-	963-130H	165,-	
HFD 3T-3IP	600   1500   3000	200   500   1000	10	194	129	145	421	383	50,8	<b>790,-</b>	-	-	963-132H	500,-	
HFD 6T-3IP	1500   3000   6000	500   1000   2000	15	194	129	145	477	426	68,3	<b>840,-</b>	-	-	963-132H	500,-	
HFD 10T-3IP	3000   6000   12000	1000   2000   5000	20	194	129	145	573	510	82,5	<b>960,-</b>	-	-	963-133H	700,-	
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.															
HFD 600K-1M	600	200	9	194	129	145	421	383	50,8	<b>465,-</b>	On request		963-130H	165,-	
HFD 1T-4M	1500	500	9	194	129	145	421	383	50,8	<b>470,-</b>	On request		963-130H	165,-	
HFD 3T-3M	3000	1000	10	194	129	145	421	383	50,8	<b>620,-</b>	On request		963-132H	500,-	
HFD 6T-3M	6000	2000	15	194	129	145	477	426	68,3	<b>770,-</b>	On request		963-132H	500,-	
HFD 10T-3M	12000	5000	20	194	129	145	573	510	82,5	<b>890,-</b>	On request		963-133H	700,-	

New model

Price reduction



Robust industrial crane scale with luminous LED display for optimum reading in unfavourable ambient conditions

**Features**

- **1** With the **TÜV certification mark**, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- Professional device for robust applications in production, quality control, logistics etc. Because of its stable construction and robust design, it is ideal for continuous use in industrial environment
- **High mobility:** thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- **Adaptation to unstable environmental conditions** by changing the readability

- **High resolution readability:** Readability [d] for 5 sec increased by one decimal place at the touch of a key, only for models with EC type approval
- **Hold function:** When the weighing value remains unchanged the weight indicated on the display is automatically “frozen” until the Hold key is pressed
- **Tare:** Resets the display to “0” when there is a load on the scale. Now removed or added loads are directly displayed
- **Hook with safety catch**, revolving
- **2 Radio remote control** standard. Range up to 20 m. All functions can be selected (excl. ON/OFF). W×D×H 48×10×95 mm. Batteries included, 1×12 V 23A

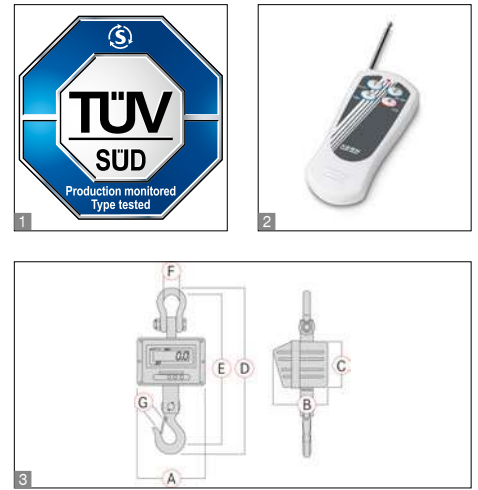
**Technical data**

- Superior display size: digit height 30 mm, bright with high contrast for easy reading of weighing results, even in poor lighting conditions
- Rechargeable battery pack internal, operating time up to 50 h without backlight, charging time approx. 14 h
- Precision: 0,2 % of [Max]
- Permissible ambient temperature 0 °C/40 °C

STANDARD      OPTION

Model	Weighing capacity [Max] kg	Readability [d] g	Net weight approx. kg	3 Dimensions							Price excl. of VAT ex works €	DAKKS Calibr. Certificate	
				A mm	B mm	C mm	D mm	E mm	F mm	G mm		DAKKS KERN	€
HFM 1T0.1	1000	100	14	270	175	200	610	540	68	40	690,-	963-130H	165,-
HFM 3T0.5	3000	500	16	270	175	200	610	540	74	40	710,-	963-132H	500,-
HFM 5T0.5	5000	500	24	300	190	230	730	650	74	55	930,-	963-132H	500,-
HFM 10T1	10000	1000	34	300	190	230	840	750	92	60	1260,-	963-133H	700,-





Robust industrial crane scale with calibration approval [M] – perfect for heavy-duty, custody transfer applications

**Features**

- **1** With the **TÜV certification mark**, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- Professional device for robust applications in production, quality control, logistics etc. Because of its stable construction and robust design, it is ideal for continuous use in industrial environment
- **High mobility:** thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- **Adaptation to unstable environmental conditions** by changing the readability

- **High resolution readability:** Readability [d] for 5 sec increased by one decimal place at the touch of a key, only for models with EC type approval
- **Hold function:** When the weighing value remains unchanged the weight indicated on the display is automatically “frozen” until the Hold key is pressed
- **Tare:** Resets the display to “0” when there is a load on the scale. Now removed or added loads are directly displayed
- **Hook with safety catch**, revolving
- **2 Radio remote control** standard. Range up to 20 m. All functions can be selected (excl. ON/OFF). W×D×H 48×10×95 mm. Batteries included, 1×12 V 23A

**Technical data**

- Superior display size: digit height 30 mm, bright with high contrast for easy reading of weighing results, even in poor lighting conditions
- Rechargeable battery pack internal, operating time up to 50 h without backlight, charging time approx. 14 h
- Precision: 0,2 % of [Max]
- Permissible ambient temperature 0 °C/40 °C

STANDARD      OPTION      FACTORY

CAL EXT   
 ACCU   
 MULTI   
 DMS   
 1 DAY   
 2 DAYS   
 DAkkS +3 DAYS   
 M +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Net weight approx. kg	3 Dimensions							Price excl. of VAT ex works €	Option			
				Verification		DAkkS Calibr. Certificate									
				KERN	€	DAkkS KERN	€								
HFO 1.5T0.5M	1500	500	16	270	175	200	610	540	60	35	1030,-	965-130H	132,-	963-130H	165,-
HFO 3T1M	3000	1000	17	270	175	200	610	540	80	47	1130,-	965-132H	200,-	963-132H	500,-
HFO 6T2M <sup>4</sup>	6000	2000	30	300	190	230	730	650	80	54,4	1400,-	965-132H	200,-	963-132H	500,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

## Accessories

### Printers



### Second display



### Weighing table



### Ioniser



### Stands



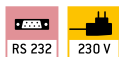
### Interface adapter



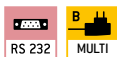
## Printers



STANDARD



STANDARD



STANDARD



### Important note for printer orders:

Please state your balance model when ordering, so that the printer can be preconfigured in the factory to suit your balance.

### Matrix needle printer KERN 911-013

For printing weighing results on normal paper, which is ideal for long-term archiving.

### Matrix needle printer KERN YKN-01

For printing weighing results on normal paper, which is ideal for long-term archiving.

### Thermal printer KERN YKB-01N

For printing weighing results, recipes, quantities etc. or for GLP record keeping of balance adjustment with date and time print. FLP/GMP compliant print form available as standard. Language versions: DE, GB, FR.

#### Technical data

- Needle print
- Speed: 1,8 line/s
- Max. 40 characters per line
- Width of the paper strip: 57 mm wide
- Operation via mains adapter 230 V/50 Hz (standard EU), as standard
- Dimensions housing: W×D×H 100×180×106 mm
- Not suitable for KERN PNS/PNJ, PES/PEJ ranges
- Interface cable not included with delivery

Price printer without interface cable,  
KERN 911-013, € 390,-

#### Technical data

- Needle print
- Speed: 1 line/s
- Max. 16 characters per line
- Width of the paper strip: 44 mm wide
- Operation via mains adapter 230 V/50 Hz (standard EU/GB/USA), as standard
- Dimensions housing: W×D×H 158×106×40 mm
- Interface cable not included with delivery

Price printer without interface cable,  
KERN YKN-01, € 230,-

#### Technical data

- Thermal print
- Speed: 0,75 lines/s
- Max. 40 characters per line
- Width of the paper strip: 112 mm wide
- Operation via mains adapter 230 V/50 Hz (standard EU/GB/USA), as standard
- Dimensions housing: W×D×H 165×140×50 mm
- Interface cable not included with delivery

Price printer without interface cable,  
KERN YKB-01N, € 310,-

#### Accessories

- Paper rolls (10 pcs.), KERN 911-013-010, € 35,-
- Universal mains adapter, standard EU/GB/US, KERN ABS-A01, € 80,-

#### Accessories

- Paper rolls (5 pcs.), KERN YKN-A01, € 35,-

#### Accessories

- Paper rolls (10 pcs.), KERN YKB-A10, € 55,-

#### Individual header data:

For printers **KERN 911-013, YKN-01, YKB-01N and YKE-01 (in combination with YKI-02)** the free software **KERN SHM-01** (see [www.kern-sohn.com](http://www.kern-sohn.com)) can be used to print 4 header lines on the printout (see marking on balance). Compatible models: KERN 440, DE, FCB, FKB-A, PCB, PCD.



STANDARD



STANDARD



**Important note for printer orders:**

Please state your balance model when ordering, so that the printer can be preconfigured in the factory to suit your balance.

**Thermal statistics printer  
KERN YKS-01**

For printing weighing results, recipes etc. or for GLP record keeping of weighing data with date and time print. Numerator; with statistical functions such as count and total of all measurements, minimum and maximum values of the main unit, range, average value, standard deviation, available units: mg, g, kg, pcs. Language versions: DE, GB, FR.

**Technical data**

- Thermal print
- Speed: 0,75 lines/s
- Max. 40 characters per line
- Width of the paper strip: 112 mm wide
- Operation via mains adapter 230 V/50 Hz (standard EU/GB/USA), as standard
- Dimensions housing: W×D×H 165×140×50 mm
- Interface cable not included with delivery
- Note: Please order the matching paper roll with it, see accessories
- Not suitable for KERN PFB range as well as KERN moisture analyzers and counting scales

Price printer without interface cable, KERN YKS-01, **€ 390,-**

**Accessories**

- Paper rolls (10 pcs.), KERN YKB-A10, **€ 55,-**

**Thermal label printer  
KERN YKE-01**

Affordable universal label printer to print out weighing results on thermal labels. ASCII-capable. Comfortable Auto-Forward function for automatic jump from label to label (only with KERN standard labels)

**Technical data**

- Thermal print
- Speed: 22 mm/s
- Max. 82 characters per line
- Width of the paper strip:  
YKE-A02: 78 mm  
YKE-A03: 112 mm
- Operation via mains adapter 230 V/50 Hz (standard EU/GB/USA), as standard
- Dimensions housing: W×D×H 150×155×65 mm
- Interface cable not included with delivery
- Note: Please order the matching label roll with it, see accessories
- Not suitable for KERN CPB, RPB, CFS, IFS, CCS, BFS, KFS-TM ranges, counting scales

Price printer without interface cable, KERN YKE-01, **€ 590,-**

**Accessories**

- Paper roll (1 pc.), Dimensions labels:  
W×D 73×61 mm, 100 labels, KERN YKE-A02, **€ 30,-**  
W×D 105×48 mm, 45 labels, KERN YKE-A03, **€ 30,-**

**Individual header data:**

For printers **KERN 911-013, YKN-01, YKB-01N and YKE-01 (in combination with YKI-02)** the free software **KERN SHM-01** (see [www.kern-sohn.com](http://www.kern-sohn.com)) can be used to print 4 header lines on the printout (see marking on balance). Compatible models: KERN 440, DE, FCB, FKB-A, PCB, PCD.



NEW

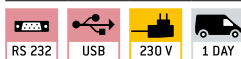


NEW

STANDARD



STANDARD



**Important note for printer orders:**

Please state your balance model when ordering, so that the printer can be preconfigured in the factory to suit your balance.

**Dot matrix printer  
KERN YKG-01**

High-quality dot matrix printer with automatic paper cutter

Flexible and rapid dot matrix printer for retail, the catering trade and for restaurant kitchens. To print the weights on normal paper, which is ideal for long-term archiving. This model has an automatic paper cutter, an interchangeable interface and you will be impressed by how easy it is to replace the paper and belt

**Technical data**

- Needle print
- Speed: 4,7 line/s
- Max. 42 characters per line
- Supported paper widths: 58 mm, 70 mm, 76 mm (roll)
- Operation via mains adapter 230 V/50 Hz standard EU, as standard
- Interfaces: RS-232, cash drawer connection, bidirectional parallel
- Interface cable not included with delivery
- Dimensions housing B×T×H 160×248×139 mm
- Not suitable for KERN DAB, DBS, DLB, FKT, RFE ranges

Price printer without interface cable, KERN YKG-01, **€ 550,-**

**Accessories**

- Paper rolls (5 pcs.), KERN YKG-A01, **€ 30,-**

**Thermal label printer  
KERN YKH-01**

High-quality thermal printer – fast, robust, user-friendly

Robust, low-maintenance dot matrix printer for retail, the catering trade and for restaurant kitchens. Extremely compact and long-lasting. Thanks to the waterproof switch cover and an external signal bleep, it is particularly suitable for use under tough, loud environmental conditions

**Technical data**

- Thermal print
- Speed: 2 line/s
- Max 64 characters per line
- Supported paper widths: 58 mm, 80 mm (roll)
- Operation via mains adapter 230 V/50 Hz standard EU, as standard
- Interfaces: RS-232, USB 2.0
- Interface cable not included with delivery
- Dimensions housing B×T×H 140×199×146 mm
- Not suitable for KERN DAB, DBS, DLB, FKT, RFE ranges
- Direct printing from mobile devices possible with ePOS technology

Price printer without interface cable, KERN YKH-01, **€ 370,-**

**Accessories**

- Paper rolls (5 pcs.), KERN YKH-A01, **€ 30,-**

**Individual header data:**

For printers **KERN 911-013, YKN-01, YKB-01N and YKE-01 (in combination with YKI-02)** the free software **KERN SHM-01** (see [www.kern-sohn.com](http://www.kern-sohn.com)) can be used to print 4 header lines on the printout (see marking on balance). Compatible models: KERN 440, DE, FCB, FKB-A, PCB, PCD.

**Interface cable for RS-232**

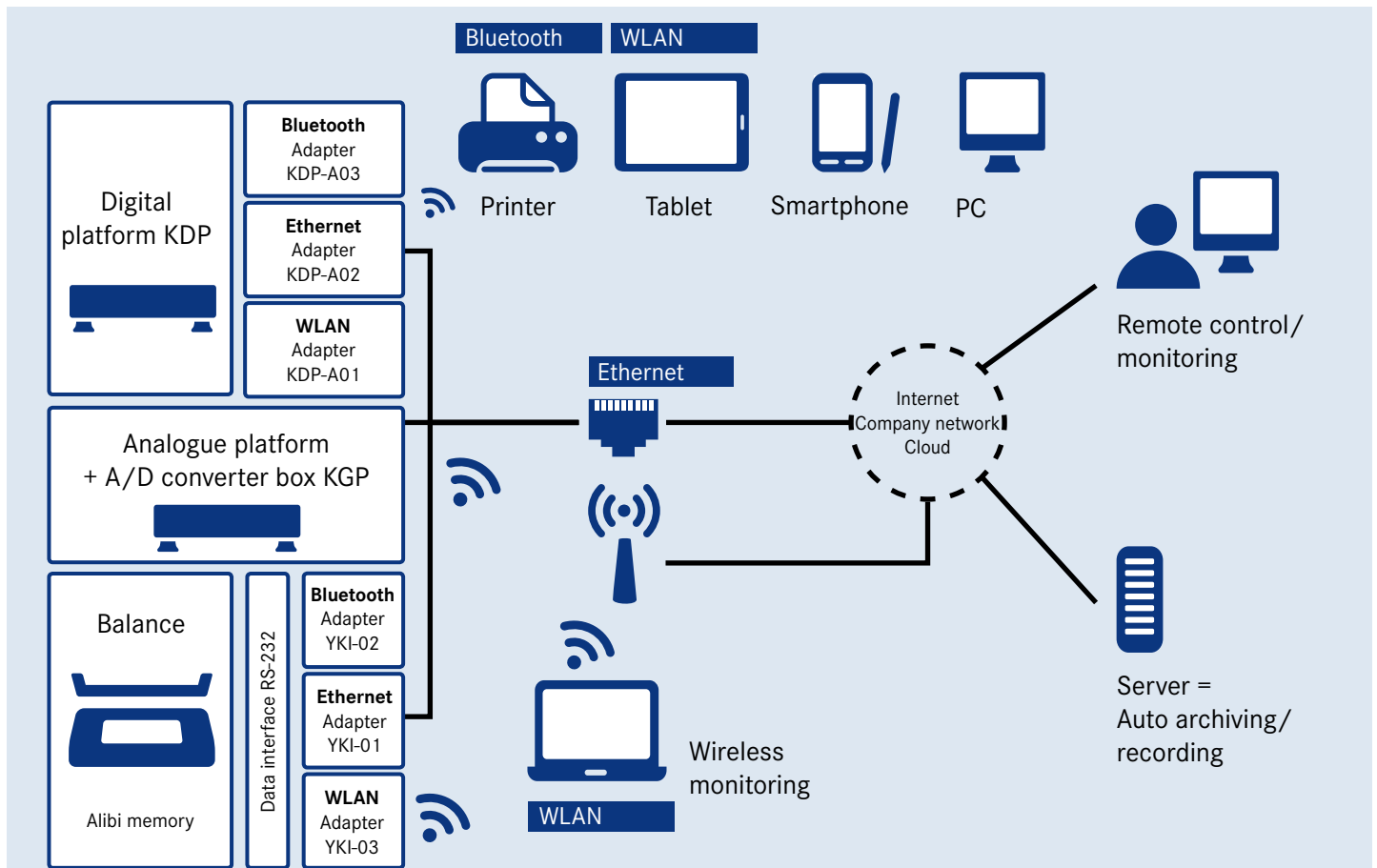
For direct connection to a printer or PC, cable length approx. 1.5 m.  
The interface parameters can be set using the balance keypad.

**Note**

The interface cable is **free of charge** if you purchase balance, printer or Ethernet-/WLAN-/Bluetooth adapter together.

Printer, ...	PC, YKI-01/-02/-03 KERN	911-013, YKB-01N, YKN-01 KERN	YKE-01 KERN	YKG-01, YKH-01 KERN	YKS-01 KERN	Price cable excl. of VAT ex works €
Balance						
440, 572, 573, ALJ-AM, ALS-A, ALT-B, CDS, CKE, DE-D, DS, EMB-V, FCB, FKA, FKB, FK, FKB-A, FKT, IKT, KB, PCB, PCD, PLJ-A, PLJ-F, PLS-A, PLS-F, PLE, PLT, KDP				572-926		46,-
BAN, BKN, BXS, IXS, KXS-TM, SXS				KXS-A04i (Factory Option) on		100,-
EOC, IOC, BID, KIB-T, KIB-TM				EOC-A12		46,-
YKV-01, KGP	572-926			-		
ABJ-NM, ABS-N				ACS-A01		90,-
BFA, BFB, BFN (until year of construction 2019), GAB-N, GAB-P, GAT, IFB, KFB-TM, KFN-TM, NFB, NFN (until year of construction 2019) PFB, SFB, UFA, UFB, UFC, UFN				CFS-A01		46,-
BFS, CCS, CFS, CPB, EWJ, KFS-TM, KFT-TM, IFS (from year of production 2015), IFT, PFB, PFB-M, RPB				CFS-A01	-	
ABT-NM, PBJ, PBS				770-926		
DBS, DLB				572-926	-	
ABP, DAB, KFS-T, MLS-D				MLB-A05		-
ADB, ADJ, AEJ-CM, AEJ-NM, AES-C, AES-N, CCP, PNJ, PNS				MLB-A05		
HFT				KFF-A01		
EG-N, EW-N				474-926		
CCA				CCA-A01		46,-

**With products from KERN you are ready to face the challenges of Industry 4.0**



We will help to combine industrial production with the latest information and communication technology, with the aim of improving quality, reducing costs and using time and resources more efficiently so that you are able to react to future requirements in a more flexible manner. You will benefit from our uniform data protocol combined with our BalanceConnection 4.0 data software, for details please see page 175/176.

	Soll	Ist	Datum / Uhrzeit	Differenz	Abweichung	Gesamt
4		200,47 g	07.05.2012 12:15	0,47 g	0,23%	200,47 g
5	PBJ 4200-2M Vaseline	400 g	07.05.2012 12:15	11,21 g	2,80%	611,68 g
6	(große Mengen) Alkohol	1000 g	07.05.2012 12:15	2,39 g	0,24%	1.614,07 g
7	ABJ 80-4M Dropropizin	5,000 g	07.05.2012 12:16	-0,0007 g	-0,01%	1.619,0693 g
8	(kleine Mengen) Theobromin	1,000 g	07.05.2012 12:16	-0,0016 g	-0,16%	1.620,0677 g

Easy transfer and editing of measuring results e.g. in Microsoft® Excel



Full overview of devices, outputs, queries, interfaces, etc. shown on the output window immediately.



Measurement report with line chart showing a moisture analysis

## Flexible recording or transfer of measurements, particularly to Microsoft® Excel or Access

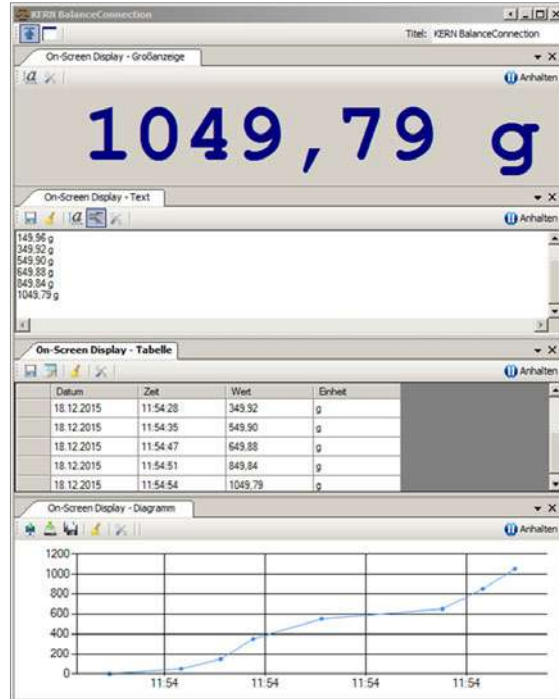
### Features

- For operating systems Windows XP, Vista, 7, 8, 8.1, 10
- Supports balances measuring devices with RS 232, RS 485, Bluetooth, LAN or WLAN network (TCP/UDP/IP)
- Highly flexible formatting of the output (any order, formatting and rounding), particularly recording of date and time for every value transferred, if required
- Any number of devices/interfaces can be connected, as well as simultaneous and synchronised recording of several balances
- Key-activated or time-controlled interrogation of measurements or trigger of device functions, also for continuous recording
- The interface protocols for KERN balances are already predefined (standard configuration)

- Compatible interface cable included when you order a KERN balance at the same time
- Many different transfer and recording options:
  - Microsoft® Excel/Access/Word in the foreground or background
  - Other Windows applications (through key simulation), e.g. shipping software or ERP system (SAP, Sage, etc.)
  - File recording (e.g. as text or CSV file)
  - Print out on text or label printer
  - Screen output such as large display, line chart (drying curve for moisture analyzer), histogram, etc.

### Benefits

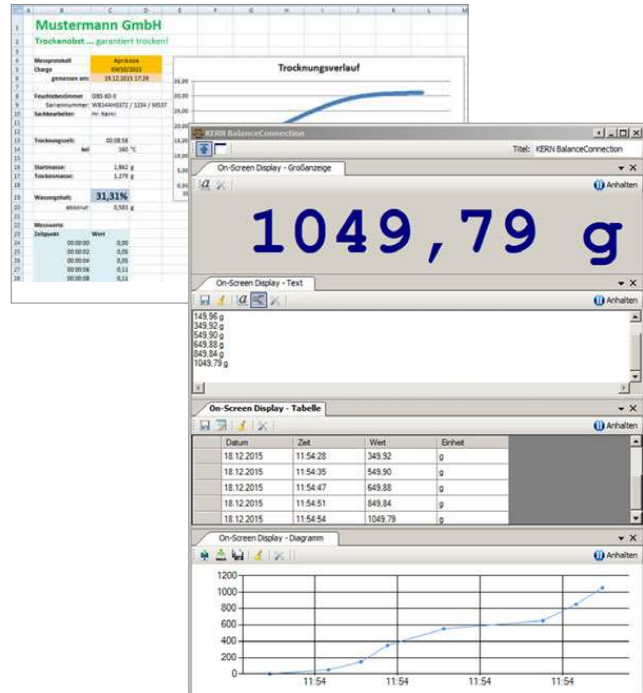
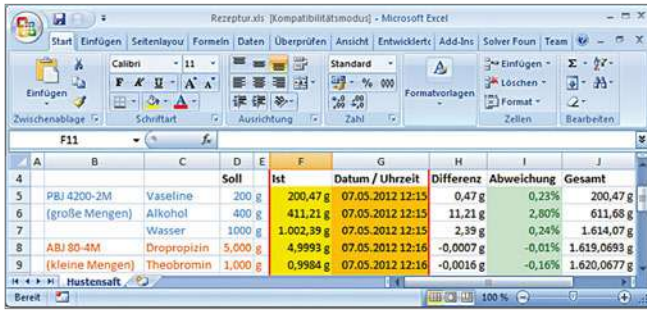
- Typing errors during e.g. manual transfer are avoided
- Automatic recording, e.g. for long-term tests
- GLP-compliant lab software
- Can be used across different branches and applications
- Also available as a cost-optimised package with 5 licenses, **you save more than 30 %!**
- Also available immediately as a download license
- Scope of supplies: 1 CD, 1 license, KERN SCD-4.0, **€ 150,-**
- Scope of supplies: 1 CD, 5 licenses, KERN SCD-4.0-S05, **€ 500,-**
- Scope of supplies: Download link for 1 license, KERN SCD-4.0-DL, **€ 150,-**



Different on-screen displays with export function

### Note

Do you have any questions? The team from our Industry 4.0 centre of expertise will be happy to help: e-mail: [ITsupport@kern-sohn.com](mailto:ITsupport@kern-sohn.com)  
Or download a free demo version of the BalanceConnection software: <http://balanceconnection.kern-sohn.com/demo>



Professional and highly flexible recording or transmission of measured values, in particular also to Microsoft® Excel or Access

### Features

- For operating systems Windows XP, Vista, 7, 8, 8.1, 10
- Supports balances measuring devices with RS 232, RS 485, Bluetooth, LAN or WLAN network (TCP/UDP/IP)
- Highly flexible formatting of the output (any order, formatting and rounding), particularly recording of date and time for every value transferred, if required
- Any number of devices/interfaces can be connected, as well as simultaneous and synchronised recording of several balances
- Key-activated or time-controlled interrogation of measurements or trigger of device functions, also for continuous recording
- The interface protocols for KERN balances are already predefined (standard configuration)
- Compatible interface cable included when you order a KERN balance at the same time
- Many different transfer and recording options:
  - Microsoft® Excel/Access/Word in the foreground or background
  - Other Windows applications (through key simulation), e.g. shipping software or ERP system (SAP, Sage, etc.)
  - File recording (e.g. as text or CSV file)
  - Print out on text or label printer
  - Screen output such as large display, line chart (drying curve for moisture analyzer), histogram, etc.

### Additional features of the BalanceConnection PRO version:

- ODBC/SQL databases such as SQL Server or MySQL
- Transfer to HTTP Webservices/Web forms
- Histogram
- Enables the connection of medical balances to practice EDP systems using the device data transfer protocol (GDT) and also the HL7 protocol
- Implementation of programs/scripts using freely-definable command lines
- Command sequences
- Defining the conditions for specific events and the reaction to these events
- Filter for stability recognition (configurable value storage)
- Central configuration repository, e.g. on the network
- On-screen displays with configurable user interface for flexible balance operation

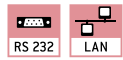
### Benefits

- Ideal software where weighing data which has been collected needs to be transferred to a Windows PC
- Particularly suitable for professional integration of weighing systems into existing networks where there is a high demand for automated data transfer and further processing, for integration of databases
- Automatic recording, e.g. for long-term tests
- GLP-compliant lab software
- Can be used across different branches and applications
- Also available as a cost-optimised package with 5 licenses, **you save more than 30 %!**
- Also available immediately as a download license
- Scope of supplies: 1 CD, 1 License  
KERN SCD-4.0-PRO, **€ 290,-**
- Scope of supplies: 1 CD, 5 Licenses  
KERN SCD-4.0-PRO5, **€ 990,-**
- Scope of supplies: Download link for 1 License, KERN SCD-4.0-PRO-DL, **€ 290,-**





STANDARD



### RS-232/Ethernet adapter KERN YKI-01

Adapter to connect balances, force measuring devices etc. with an RS-232 interface 2 to an IP-based Ethernet network 1. The adapter allows direct integration of measuring devices into most company networks, with automatic configuration using DHCP or statistical IP allocation. You can access the current measuring data at any time from within the whole network, without having to use additional cables. The adapter supports a wide range of configurational options using the enclosed administration software or by the web interface. The driver delivered with the goods allows you to access the measuring device with existing, non-network-compatible applications using a virtual COM port. Compatible with **KERN BalanceConnection software**. DIN track mount 3 or free-standing.

Scope of delivery: RS-232 Ethernet adapter with 1x Port RS-232 2, mains adapter 4, CD (driver, software, operating instructions), adhesive feet, (interface cable see page 174),

KERN YKI-01, € 290,-



STANDARD



### RS-232/WLAN-Adapter KERN YKI-03

High-quality adapter for the wireless connection of balances, force measuring devices etc. with RS-232 interface to WLAN-enabled devices, such as tablets, laptops, Smartphones etc. In this way, where there is a physical separation or a large distance between the devices, the weighing data from one or several balances can be easily transferred without cable to a WLAN device or a network (relevant software on the WLAN device needed, not included in delivery). The adapter allows direct integration of measurement devices into most company networks, with automatic configuration using DHCP or statistical IP allocation. You can access the current measuring data at any time from within the whole network, without having to use additional cables. The adapter supports a wide range of configurational options using the enclosed administration software or by the web interface. The driver delivered with the goods allows you to access the measurement device with existing, non-network-compatible applications using a virtual COM port. Compatible with **KERN Software BalanceConnection**.

The adapter also has an Ethernet interface for a wired connection to an IP-based Ethernet network 1. Thanks to the screw terminals 2, the power connection can be implemented individually using individual wires or using the robust, screw-in power connector 3. Large input voltage range from 12 V–48 V. Suitable for wall mounting and DIN track mount 4 or free-standing.

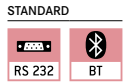
Scope of delivery: RS-232/WLAN adapter, mains adapter, network cable (1 m), driver CD, (interface cable see page 174),

KERN YKI-03, € 690,-



**Note:** To connect to your network, you will need information from your network administrator. We recommend discussing connecting your device into your network with the administrator before you place your order.

**Note:** If you order a KERN balance at the same time, then the interface cable is **free of charge** (please specify balance model).



## RS-232/Bluetooth-Adapter KERN YKI-02

Adapter for the wireless connection of balances, force measuring devices etc. with an RS-232 interface to Bluetooth devices, such as Bluetooth printers (e.g. KERN YKC-01), tablets, laptops, Smartphones etc. In this way, where there is a physical separation or a large distance between the devices, the weighing data from one or several balances can be easily sent without cable and printed on a Bluetooth printer or transferred to a Bluetooth device (you would need the relevant software on the Bluetooth device, not included with the delivery). The compact adapter with its attractive design can usually be connected directly to the balance **1**, e.g. an additional interface cable would not be necessary. Bluetooth adapter will be powered by the balance (if compatible) or with the mains adapter which is supplied as standard **2**. Range up to 100 m outside, depending on obstacles, such as, walls, the sensitivity and type of antenna of the receiver. Intersections of sending and receiving lines using the DCE/DTE switch **3**. Compatible with **KERN Software BalanceConnection**.

Scope of delivery: RS-232/Bluetooth adapter, mains adapter (EU/UK/USA/AUS/CH) **2**, USB-A to Mini-USB-B cable **4**, gender changer **5**, driver CD, (interface cable see page 174),

KERN YKI-02, € 290,-



**Note:** To connect to your network, you will need information from your network administrator. We recommend discussing connecting your device into your network with the administrator before you place your order.

**Note:** If you order a KERN balance at the same time, then the interface cable is **free of charge** (please specify balance model).



**Large display  
KERN YKD-A02**

with superior display size, digit height 3" (76 mm). Luminescent, red LED display for easy reading of weight, even from a distance or under poor lighting conditions. 6 segments, mains connection as standard (230 V, EU/GB), connection using RS-232 data interface, dimensions WxDxH 541x55x180 mm.

Suitable for series IFB, BFB, NFB, UFA, UFB,

KERN YKD-A02, € 220,-



**Signal lamp  
KERN CFS-A03**

Signal lamp for visual support of weighing with tolerance range. Three-colour LED, red, green, yellow. Power supply via balance using RS-232. Total dimensions WxDxH 100x180x300 mm

Suitable for series BFB, BFN, BID, CPB-N, GAB-N, GAB-P, IFB, IOC, KFB-TM, KFN-TM, KIB-TM, NBB, NFB, NFN, SFB, UFA, UFB, UFC, UFN,

KERN CFS-A03, € 250,-



**Power supply adapter set  
KERN YKA-02**

from standard EU to GB/US/AUS/CH etc. Four pieces. Ideal for devices with Class II protection (not earthed). Ideal for Euro moulded plug,

KERN YKA-02, € 31,-



**2nd RS-232 data interface  
KERN CFS-A04**

separate Y cable, e.g. for simultaneous connection of a printer, signal lamp etc.

Suitable for series BAN, BFB, CFS, CPB-N, GAB-N, GAB-P, IFB, KFB-TM, NFB, NFN, UFN, UFA, UFB, SFB,

KERN CFS-A04, € 35,-



**RS-232/USB adapter  
KERN AFH 12**

to connect peripheral devices with USB connection, fits on all balances and measuring instruments with RS-232 port.

Please order the appropriate RS-232 interface cable for your balance at the same time, see table on page 174

Scope of delivery: Converter cable, CD with driver,

KERN AFH 12, € 85,-



**Stand (tripodal)  
KERN YKP-01**

stable and robust, to elevate display device, stainless steel, height-adjustable, large three-legged adjustable foot, height of stand approx. 750–1000 mm, Factory Option.

Suitable for series BFA, BBB, BFN, BBN, KEN-TM, NFN, SFB (from weighing plate size W×D 500×400 mm), UFN,

KERN YKP-01, € 370,-



**Stand (tripodal)  
KERN YKP-02**

stable and robust, to elevate display device, stainless steel, height-adjustable, large three-legged adjustable foot, height of stand approx. 750–1000 mm, Factory Option.

Suitable for series BFB, BXS, BFS, BFA, BBB, BBN, BKN, IFS, IFB, KFE-TM, KXG-TM, KXS-TM, KEN-TM, NFB, NBB, SFE, UFA, UFB, UFC,

KERN YKP-02, € 190,-



**Protective dust cover  
KERN ABS-A08**

For protection from dust and light.

Suitable for all KERN analytical balances and precision balances with glass draught shield,

KERN ABS-A08, € 30,-



**Tare pan  
KERN RFS-A02**

Made of stainless steel, which makes cleaning easy and hygienic. Ideal for weighing loose screws, small parts, fruit, vegetables, cheese, etc.

- W×D×H 370×240×20 mm
- Net weight approx. 524 g

KERN RFS-A02, € 55,-



**Tare pan with pan beam  
KERN CH-A01N**

Made of stainless steel. Ideal for weighing loose small parts, fruit, vegetables etc. Max. load 30 kg. Removable tare pan which makes cleaning easy and hygienic.

- Suitable for models KERN CH 15K20, HCB 20K10, HCN 20K50IP, HDB-N, HDB-XL
- Dimensions: tare pan,  $\varnothing$ /H 160×40 mm (dim. outside), 240×40 mm (dim. inside)
  - Pan beam: W×D×H 290×240×300 mm 290×240×340 mm (incl. tare pan)
  - Total net weight approx. 500 g

KERN CH-A01A, € 70,-



**Universal density set  
KERN YDB-03**

Universal density set for precise and convenient density determination of liquids and solids  $\leq/\geq 1$ . Suitable for all current KERN analytical balances.

**Scope of delivery:** Beaker ( $\varnothing$ ×H 84×113 mm), thermometer, sample holder, adapter, equalising weights, volume plummet (stainless steel, 20 g), universal submersible basket for solid bodies which float and sink. The wire of the submersible basket has a diameter of 0.5 mm and therefore complies with the requirements of DIN EN ISO 1183-1 (test methods for the determination of density of non-foamed plastics),

KERN YDB-03, € 390,-

Optional:  
Density determination of the volume plummet, DAkkS calibration certificate with all data relating to the density and volume,


KERN 962-335V, € 143,-



STANDARD



### Ioniser to neutralise electrostatic charge KERN YBI-01A

Goods to be weighed which are non-conductive, such as plastic, china, glass, etc often carry electrostatic charge. The electromagnetic field which then occurs between the goods to be weighed and the balance can cause the weighing result to be distorted by up to a gramme. Therefore, when weighing in milligrammes or even smaller increments, we recommend neutralising the electrostatic charge with the KERN AC-Korona discharge ioniser. With feet  supplied with the ioniser, it can be positioned conveniently next to the balance or you can manually direct it from all sides onto a particular item to be weighed.

- Discharge of ozone 0,05 ppm/h
- Total dimensions W×D×H  
115×100×60 mm (Adjustable foot retracted),  
115×110×80 mm (Adjustable foot folded out)
- Net weight approx. 0,31 kg
- Mains connection 100–240 V, 50/60 Hz, AC power supply, DC 12 V, 500 mA, output,

KERN YBI-01A, € 890,-

### Weighing table KERN YPS-03

The KERN YPS-03 weighing table has been constructed to absorb vibrations and oscillations, which would otherwise distort the weighing result.

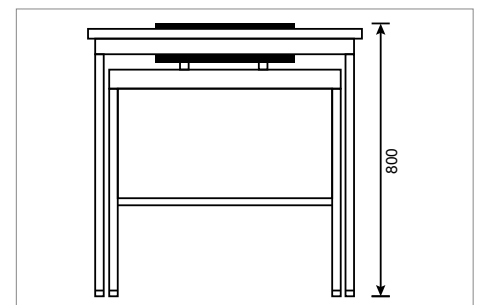
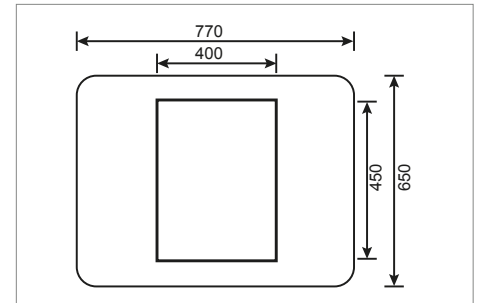
The YPS-03 weighing table consists of:

- a heavy, polished granite slab (34 kg) and is positioned on absorbing rubber components and is used as a surface on which to stand the analytical balance
- a work table, the work surface of which surrounds the slab and offers many storage options. The sturdy powder-coated steel frame has four height-adjustable feet, which can be used to accurately level the weighing table if the floor is at all uneven
- You can work in an ergonomic way at the weighing table whether you are in a standing or seated position. The inlet on the front of the table offers enough space for you to sit down and operate the scale without touching the weighing table.
- All surfaces are easy and hygienic to clean

- Suitable for all KERN analytical balances with total dimensions  $\leq W \times D$  270×410 mm
- Total dimensions W×D×H  
768×648×800 mm (Height adjustable)
- Dimensions granite slab, W×D×H  
270×410×115 mm
- Net weight approx. 62 kg

Ready for shipping in 2 working days. Dispatch complete on pallet, simple self-assembly. Please ask for dimensions, gross weight, shipping costs,

KERN YPS-03, € 970,-





STANDARD



### Roller conveyor KERN YRO-01/ YRO-02/ YRO-03

Through the **smooth-running KERN roller conveyor attachments**, KERN YRO, you can convert your platform scale into a **robust measuring system** for rapid and flexible weight determination in conveyor applications

Especially **suitable for use in production and dispatch lines**, where time means money. The goods or packages can either be weighed as they pass over the balance or, at fixed stations, heavy goods can easily be pushed onto the scale thanks to the roller conveyor and moved onto the connected roller conveyor

- **■** Simply connect the roller conveyor attachment to a platform (e.g. KERN IFB, IFS, IXS, KFP, KXP, SXS) – done!
- **Robust aluminium profile frame.** The modular design means that you can **easily disassemble it for cleaning** or to replace individual components
- **Smooth-running, hot-dip galvanised steel rollers with ball bearings**
- **Conductive rollers**
- Suitable for use in **dry environments**
- Roller distance approx. 30 mm
- Direction of movement is lengthways

- Scope of delivery: 1 roller conveyor attachment (without scale)
- We are happy to adapt the roller conveyor to your scale, adjust the preload or switch-on tolerance, etc. Please ask for your individual offer, your personal KERN contact person will be happy to help you

Model	Total dimensions W×D×H	Suitable for platforms with weighing plate sizes W×D	Total net weight approx.	Price excl. of VAT ex works €
KERN	mm	mm	kg	
YRO-01	405×305×130	400×300	6	660,-
YRO-02	505×405×130	500×400	9	680,-
YRO-03	655×505×130	650×500	12	910,-



# TIPS FROM THE EXPERTS

As well as our balances and test services, we can offer you an extensive range of professional measuring technology and testing technology as a comprehensive range of test services.

We will offer you reliable quality at fair prices and with the shortest delivery times. Our product specialists will give you professional advice, will work with you to find the right product and will provide comprehensive support after the purchase too.

For all details on our ranges, please see [www.kern-sohn.com](http://www.kern-sohn.com) or request your own personal catalogues right now: Telephone +49 7433 9933-0



Stefan Herrmann, Product Manager  
SAUTER measuring equipment

## #4 “New: High-quality load cells for force and mass measurement”

Accuracy classes with rated loads from 300g to 50t and protection classes up to IP69K are now available in the SAUTER product range. For which project whatsoever, whether to build individual weighing systems, for installation in silos and storage containers or shelves for continuous inventory, for special applications in mechanical engineering or any kind of test stands – SAUTER offers a suitable measuring cell.

Of course, we also supply the right accessories, such as load corners, rod ends, evaluation units, junction box or the appropriate calibration certificate.

Special wishes? Special load cells, other capacities or cable lengths, individual dynamometers or a special receptacle for your test object? No problem, our product specialist “Load cells”, Mr. Stefan Herrmann, will be pleased to help you at any time and work with you to develop an individual concept for your application.

**All load cells and measuring instruments can be found in the new SAUTER catalogue 2020 for measuring technology and test services**

### BALANCE MANUFACTURE

Load cell + Junction Box + KERN YKV



### BALANCE MANUFACTURE

Load cell + display device



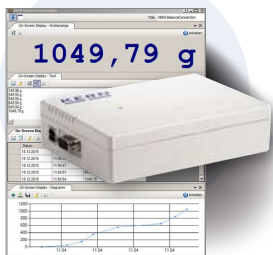
### FORCE MEASUREMENT

Load cell + SAUTER FL + Software



### WAAGENBAU

Load cell + KERN YKV + KERN Software BalanceConnection



### BALANCE MANUFACTURE

Load cell + Junction Box + display device



**SAUTER Mess measuring cells – integration opportunities**

## Test weights

### Weights yesterday and today

Weights have always been used to carry out weighing procedures. This original purpose has almost disappeared. Today, weights are used almost exclusively for adjusting and testing = calibration of electronic balances. We therefore call them "Test weights" as this is their purpose of use.

### Adjustment or calibration?

► **Adjusting** a balance means that you are intervening in the weighing system, to make sure that the display is set to show the correct nominal value. With ► **calibration** on the other hand, there is no intervention, you are testing whether the display is correct and documenting any deviation.

### Testing, the right way!

The internationally valid OIML norm R111:2004 classifies test weights hierarchically in accuracy classes, where E1 is the most accurate and M3 is the least accurate weight class. With KERN you get the whole test weight range in all OIML accuracy classes E1, E2, F1, F2, M1, M2, M3.

As the appropriate test weight is only classed as checking equipment according to ► **ISO 9000ff** if it has the relevant proof of accuracy, all KERN test weights come with an appropriate ► **DAkkS-calibration certificate**. For further details, see the calibration service section on page 210.

KERN offers you the appropriate test weight package for your balance, consisting of the test weight, box and DAkkS-calibration certificate, as proof of its accuracy.







The best prerequisite for a correct adjustment or checking of your scales.

► **See the glossary on page 223-225**

Test weights: classes of accuracy E, F, M and their general relation to the types of balances:

- E1 Test weights for customers who require a high degree of accuracy for the most demanding applications. For high-resolution balances with  $d > 1,000,000$  Use recommended with DAkkS calibration certificate only.
- E2 Most accurate test weights for high resolution analytical balances of verification class I  $\geq 100,000$  e
- F1 Test weights for analytical balances/precision balances for verification class I/II  $\leq 100,000$  e
- F2 Test weights for precision balances of verification class II  $\leq 30,000$  e
- M1 Test weights for industrial and commercial scales of verification class III  $\leq 10,000$  e

The appropriate test or adjustment weight for your new KERN balance can also be found directly in the accessories of the balance in our webshop

KERN DAkkS delivery times & shipping type	Total weight $\leq 30$ kg (gross weight, incl. packaging)	Total weight $> 30$ kg (gross weight, incl. packaging)
DAkkS standard service Class E2 - M3	 4 DAYS	 4 DAYS
DAkkS standard service Class E1, 1 mg - 500 mg and recalibration 1 g - 10 kg with a known volume	 10 DAYS	 10 DAYS
Class E1, $\geq 1$ g, incl. volume determination (new weights)	 15 DAYS	 15 DAYS
Special weights, Newton weights, heavy duty weights, weight carriers, wooden boxes for individual weight sets etc.	on request	



**Taras Mikitisin**  
Product specialist Test weights

Tel. +49 7433 9933-143  
Fax +49 7433 9933-29143  
mikitisin@kern-sohn.com



## Just lean back – we have just the right test weight for your measuring device

KERN offers you a large range of OIML test weights, which you can use at any time to quickly and reliably check your balance, force-measuring device, etc.. From milligram weights to tonne weights, from the classic OIML design to special weights which are specifically manufactured to your specifications, we can offer you just the right test weight, and naturally the weights have the relevant DAkkS calibration certificate or factory calibration certificate.

On the following pages you will see a selection of standard test weights for OIML error limit classes E1, E2, F1, F2, M1, M2, M3.

We will be happy to manufacture special (large) weights, weight containers, Newton weights or weights with special weight values for you on request. Our test weights product specialist will be happy to give you expert, comprehensive advice.



## All the security you need!

„KERN Safety Sets“ which have been specially developed and put together and contain the right test weights to test and monitor your balance. This “KERN Safety Set” contains one test weight for testing the upper end of the weighing range of your balance and one test weight for testing the lower end. As an option, the “KERN Safety Set”

has space for another test weight, for testing your balance at a weight which is relevant for you. Useful accessories which have been selected to suit that particular “KERN Safety Set”, such as, for example, special gloves, tweezers, weight grips, brushes, etc. will assist you in handling your test weights properly. Stored in the practical protective case next to your balance, you can check and ensure the high precision of your balance at any time.

Just ask our test weight product specialist, he will be happy to recommend the right “KERN Safety Set” for your balance. You can also find the matching “KERN Safety Set” for each model on the Internet at [www.kern-sohn.com](http://www.kern-sohn.com)









## Marking – never lose track again!

With the large variety of test equipment used then it is essential that they are identified accurately. We can help you with this and can mark or etch your weights to your specifications. Whether it's letters, numbers, your logo, barcodes or something else - it's your choice. Our product specialist "Test weights" will gladly help you with any questions about this service, prices, etc.



## Our KERN weight cases at a glance:




↓




					
<b>Plastic box</b> for individual weights	<b>Aluminium protected box</b> for individual weights	<b>Wooden box, lined</b> for individual weights	<b>Plastic case</b> for weight sets	<b>Aluminium protected case</b> for weight sets	<b>Wooden case, lined</b> for weight sets

**It's your choice!**  
To protect your test weights we can offer you an appropriate box. If there are no legal or normative specifications, then you have the choice between plastic, aluminium protected or wood. The available boxes are shown as a symbol in the test weight tables on the following pages. In this way you have all the materials, versions, sizes and prices at a glance, listed in a concise way.

## It's so easy to order your suitable test weight

1. According to your safety requirements or the specifications of your QM system, you select the test weight with the appropriate weight value and the required tolerance.
2. We offer many weights in different designs, giving you complete freedom to decide which test weights you want to use for your application. It goes without saying that all our test weights comply with the OIML R111:2004 directive.
3. To protect your high-quality test equipment, we offer you cases in various designs. From low-priced plastic cases to aluminium protected boxes to classic, high-quality wooden cases.
4. A DAkkS calibration certificate - the auditor's favourite! With this certificate you provide the standard-compliant proof of all important values of your test equipment and are on the safe side when operating and testing your measuring equipment.

1.		2.				3.			4.				
Weight	Tol +/- mg	Individual weights, compact shape		Individual weights, knob shape		Plastic box		Aluminium protected box		Wooden box		DAkkS certificate	
		KERN	€	KERN	€	KERN 	€	KERN 	€	KERN 	€	KERN	€
1 g	0,03	316-01	31,-	317-01	45,-	317-020-400	4,50	317-010-600	14,-	317-010-100	26,-	962-331	26,-
2 g	0,04	316-02	33,-	317-02	48,-	317-020-400	4,50	317-020-600	14,-	317-020-100	26,-	962-332	26,-
5 g	0,05	316-03	35,-	317-03	51,-	317-030-400	4,50	317-030-600	14,-	317-030-100	26,-	962-333	26,-
10 g	0,06	316-04	37,-	317-04	54,-	317-040-400	4,50	317-040-600	14,-				
20 g	0,08	316-05	42,-	317-05	62,-	317-050-400	4,50						
			45,-	317-06	72,-								

1.	2.	3.	4.
Weight sets	ECO shape in plastic case	ECO shape in aluminium protected case	ECO shape in wooden case
	KERN 	€ KERN 	€ KERN 
1 mg - 500 mg	328-22* 175,-	328-226** 195,-	328-22* 175,-
1 mg - 50 g	325-024 395,-	325-026 445,-	325-022 450,-
1 mg - 100 g	325-034 430,-	325-036 475,-	325-032 480,-
1 mg - 200 g	325-044 520,-	325-046 560,-	325-042 560,-
500 g	325-054 580,-	325-056	

## Selection of the appropriate test weight for your balance

A balance can never be more accurate than the test weight used to adjust it, it all depends on its tolerance. The accuracy of the test weight should correspond to the readout [d] of the balance, or rather be better. Nominal weight value is shown in adjust mode "CAL" in the balance display. Given a choice, the heaviest weight is the most suitable for accurate measurement.

Once accuracy and nominal weight value are specified, the suitable test weight is selected according to the tolerances "Tol" of the individual accuracy classes E2 - M3, see column "Tol ± mg" at the respective weight and table at page 188.

### Example:

Balance with weighing range [Max] 2000 g = 2 kg  
and readout [d] = 0,01 g = 10 mg

- The accuracy of the required test weight is determined by readout [d]: max. tolerance ± 10 mg.
- Displayed weight size on "CAL" mode: 1000 g or 2000 g. The required test weight has a 2 kg weight size.
- Suitable test weights with ± 10 mg tolerance and 2 kg weight size, can be found in accuracy class F1. KERN-No 326-12, see page 194.

### Exception, analytical balances (readout [d] ≤ 0,1 mg):

E1 test weights are recommended. Depending on the safety requirements, E2 test weights with a DAkkS calibration certificate will also be sufficient.

## From brass to stainless steel - the right test weight for every situation



Test weight →	Knob shape with lifting knob, polished stainless steel	Compact shape with carrying grip, polished stainless steel	Knob shape with lifting knob, polished stainless steel	ECO shape, polished stainless steel	Knob shape with lifting knob, finely turned stainless steel	Knob shape with lifting knob, finely turned brass
Features ↓						
Conforms to OIML:R111	yes	yes	yes	yes	yes	yes
Available classes	E1, E2	E2	F1	F1	F2, M1	M1, M2, M3
Upper surface	polished	polished	polished	polished	finely turned	finely turned
Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Brass
Adjusting cavity	no	no	yes	yes, from 50 g, readjustment can only be carried out by KERN	yes, from 20 g	yes, from 20 g
Marking (Milligram weights, generally none)	no	E2: None	Nominal value, etched	Nominal value, etched	F2: Class + nominal value, etched; M1: Class + nominal value, adopted	Class + nominal value, adopted
Verification possible	yes	yes	yes	no	yes	yes, M1 only
Checking equipment for verification purposes	approved	approved	approved	approved	approved	approved, M1 only
Ideal as checking equipment in QM systems (e.g. ISO 9000 ff)	yes	yes	yes	yes	yes	yes
Benefits	<ul style="list-style-type: none"> <li>• High-quality test weight for analytical and precision balances</li> <li>• Highly-refined surface</li> <li>• Ideal shape of the top for good grip</li> </ul>	<ul style="list-style-type: none"> <li>• Affordable test weight for analytical and precision balances</li> <li>• Highly refined surface</li> </ul>	<ul style="list-style-type: none"> <li>• Ideal, high-quality test weight for precision balances</li> <li>• No visible adjustment chamber</li> <li>• High long-term stability</li> <li>• Ideal shape of the top for good grip</li> </ul>	<ul style="list-style-type: none"> <li>• Affordable test weight for analytical and precision balances</li> <li>• Highly refined surface</li> <li>• Optimum shape of the top for good grip</li> </ul>	<ul style="list-style-type: none"> <li>• Ideal test weight for commercial and industrial scales</li> <li>• Ideal shape of the top for good grip</li> </ul>	<ul style="list-style-type: none"> <li>• Affordable test weight for commercial and industrial scales</li> <li>• Ideal shape of the top for good grip</li> </ul>

## Composition table, valid for all KERN weight sets from 1 mg

Individual weights per set →	1	2	2	5	10	20	20	50	100	200	200	500	1	2	2	5	10	20	20	50	100	200	200	500	1	2	2	5	10	
Weight set ↓	mg	mg	mg	mg	mg	mg	mg	mg	mg	mg	mg	mg	g	g	g	g	g	g	g	g	g	g	g	g	g	kg	kg	kg	kg	kg
1 mg-500 mg	Total weight												1,11 g																	
1 mg-50 g													111,11 g																	
1 mg-100 g													211,11 g																	
1 mg-200 g													611,11 g																	
1 mg-500 g													1.111,11 g																	
1 mg-1 kg													2.111,11 g																	
1 mg-2 kg													6.111,11 g																	
1 mg-5 kg													11.111,11 g																	
1 mg-10 kg													21.111,11 g																	

**The key points from the OIML norm R111:2004**

OIML (Organisation Internationale de Metrologie Legale) has established the exact metrological requirements for weights in verified applications in approx. 100 states all over the world. The OIML recommendation R111 (2004 Edition) for weights relates to sizes 1 mg – 5000 kg. Statements are made on the accuracy, materials, geometric shape, marking and storage of the weights.

**Error limits for weights of classes E1 to M3**

The error limit classes are in fixed hierarchical levels in the proportion of 1:3, where E1 is the most accurate and M3 is the least accurate weight class. When testing weights with other weights, the correct test class is the next highest class.

**Error limit classes (= tolerances)**

The values given in the table below (tolerances ± ... mg) are the respective permitted fabrication tolerances. They are to be equal to the ► **measuring uncertainty** of the weight, if no ► **DAkkS calibration certificate** is available.

**Conventional mass**

The problem is the air buoyancy, which makes the weight appear lighter. In order to avoid this “distortion” in daily use, all weights are adjusted to the unit specifications as given in R111, e.g. it is accepted that: material density of the weights is 8000 kg/m<sup>3</sup>, air density is 1.2 kg/m<sup>3</sup> and measuring temperature is 20 °C.

**KERN test weights:** Unless otherwise specified, they conform to OIML R111:2004 in every detail.

► *See the glossary, page 223–225*

Nominal value ↓	OIML R111:2004 Maximum permissible errors for weights = permissible tolerances “Tol ± mg”						
	E1	E2	F1	F2	M1	M2	M3
1 mg	± 0,003 mg	± 0,006 mg	± 0,020 mg	± 0,06 mg	± 0,20 mg	-	-
2 mg	± 0,003 mg	± 0,006 mg	± 0,020 mg	± 0,06 mg	± 0,20 mg	-	-
5 mg	± 0,003 mg	± 0,006 mg	± 0,020 mg	± 0,06 mg	± 0,20 mg	-	-
10 mg	± 0,003 mg	± 0,008 mg	± 0,025 mg	± 0,08 mg	± 0,25 mg	-	-
20 mg	± 0,003 mg	± 0,010 mg	± 0,03 mg	± 0,10 mg	± 0,3 mg	-	-
50 mg	± 0,004 mg	± 0,012 mg	± 0,04 mg	± 0,12 mg	± 0,4 mg	-	-
100 mg	± 0,005 mg	± 0,016 mg	± 0,05 mg	± 0,16 mg	± 0,5 mg	± 1,6 mg	-
200 mg	± 0,006 mg	± 0,020 mg	± 0,06 mg	± 0,20 mg	± 0,6 mg	± 2,0 mg	-
500 mg	± 0,008 mg	± 0,025 mg	± 0,08 mg	± 0,25 mg	± 0,8 mg	± 2,5 mg	-
1 g	± 0,010 mg	± 0,03 mg	± 0,10 mg	± 0,3 mg	± 1,0 mg	± 3,0 mg	± 10 mg
2 g	± 0,012 mg	± 0,04 mg	± 0,12 mg	± 0,4 mg	± 1,2 mg	± 4,0 mg	± 12 mg
5 g	± 0,016 mg	± 0,05 mg	± 0,16 mg	± 0,5 mg	± 1,6 mg	± 5,0 mg	± 16 mg
10 g	± 0,020 mg	± 0,06 mg	± 0,20 mg	± 0,6 mg	± 2,0 mg	± 6,0 mg	± 20 mg
20 g	± 0,025 mg	± 0,08 mg	± 0,25 mg	± 0,8 mg	± 2,5 mg	± 8,0 mg	± 25 mg
50 g	± 0,03 mg	± 0,10 mg	± 0,3 mg	± 1,0 mg	± 3,0 mg	± 10 mg	± 30 mg
100 g	± 0,05 mg	± 0,16 mg	± 0,5 mg	± 1,6 mg	± 5,0 mg	± 16 mg	± 50 mg
200 g	± 0,10 mg	± 0,3 mg	± 1,0 mg	± 3,0 mg	± 10 mg	± 30 mg	± 100 mg
500 g	± 0,25 mg	± 0,8 mg	± 2,5 mg	± 8,0 mg	± 25 mg	± 80 mg	± 250 mg
1 kg	± 0,5 mg	± 1,6 mg	± 5,0 mg	± 16 mg	± 50 mg	± 160 mg	± 500 mg
2 kg	± 1,0 mg	± 3,0 mg	± 10 mg	± 30 mg	± 100 mg	± 300 mg	± 1 000 mg
5 kg	± 2,5 mg	± 8,0 mg	± 25 mg	± 80 mg	± 250 mg	± 800 mg	± 2 500 mg
10 kg	± 5,0 mg	± 16 mg	± 50 mg	± 160 mg	± 500 mg	± 1 600 mg	± 5 000 mg
20 kg	± 10 mg	± 30 mg	± 100 mg	± 300 mg	± 1 000 mg	± 3 000 mg	± 10 g
50 kg	± 25 mg	± 80 mg	± 250 mg	± 800 mg	± 2 500 mg	± 8 000 mg	± 25 g
100 kg	-	± 160 mg	± 500 mg	± 1 600 mg	± 5 000 mg	± 16 g	± 50 g
200 kg	-	± 300 mg	± 1 000 mg	± 3 000 mg	± 10 g	± 30 g	± 100 g
500 kg	-	± 800 mg	± 2 500 mg	± 8 000 mg	± 25 g	± 80 g	± 250 g
1 000 kg	-	± 1 600 mg	± 5 000 mg	± 16 g	± 50 g	± 160 g	± 500 g
2 000 kg	-	-	± 10 g	± 30 g	± 100 g	± 300 g	± 1 000 g
5 000 kg	-	-	± 25 g	± 80 g	± 250 g	± 800 g	± 2 500 g



**PREMIUM<sup>+</sup> WEIGHTS**

**Note:** Our highly-accurate OIML test weights are also available **PREMIUM<sup>+</sup> weights** for that extra level of safety. Thanks to the most modern manufacturing technology, these test weights can also be adjusted within the specified error limit classes (= tolerances).

I.e. this means that these **PREMIUM<sup>+</sup> weights** have a significantly longer service life, thanks this guaranteed positive tolerance. This is of particular benefit with intensive use of the test weights.

For all the details on this **PREMIUM<sup>+</sup> service** please see [www.kern-lab.com/premium+](http://www.kern-lab.com/premium+) or look at the weight you want in our online shop at [www.kern-sohn.com](http://www.kern-sohn.com)

# Test weights and boxes

## Class E1



Milligram weights, wire shape



Individual weights, knob shape



Wooden box, for milligram weights



Plastic box, lined,  
for individual weights  
≤ 50 g



Plastic box, lined,  
for individual weights  
≥ 100 g



Wooden box, lined,  
for individual weights ≤ 500 g



Wooden box, lined,  
for individual weights ≥ 1 kg



Milligram weight set  
in plastic box (308-  
22)



Milligram weight  
set in aluminium  
protected box, lined  
(308-226)






Aluminium protected case, lined, for weight  
sets, knob shape






Wooden case, lined, for weight sets,  
knob shape

**Class E1 · Milligram weights, wire shape, stainless steel**

Weight	Tol +/- mg	Milligram weight, wire shape		Plastic box		Aluminium protected box		Wooden box		DAkkS certificate		
		KERN	€	KERN		€	KERN		€	KERN		€
1 mg	0,003	308-31	58,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-251	52,-	
2 mg	0,003	308-32	58,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-252	52,-	
5 mg	0,003	308-33	58,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-253	52,-	
10 mg	0,003	308-34	58,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-254	52,-	
20 mg	0,003	308-35	58,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-255	52,-	
50 mg	0,004	308-36	58,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-256	52,-	
100 mg	0,005	308-37	58,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-257	52,-	
200 mg	0,006	308-38	58,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-258	52,-	
500 mg	0,008	308-39	58,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-259	52,-	

**Class E1 · Individual weights, knob shape, polished stainless steel**

Weight	Tol +/- mg	Individual weight, knob shape		Plastic box		Aluminium protected box		Wooden box		DAkkS certificate Initial calibration*		DAkkS certificate Recalibration	
		KERN	€	KERN		€	KERN		€	KERN		€	KERN
1 g	0,010	307-01	83,-	317-020-400	4,-	317-010-600	14,-	317-010-100	26,-	963-231	193,-	962-231 R	52,-
2 g	0,012	307-02	89,-	317-020-400	4,-	317-020-600	14,-	317-020-100	26,-	963-232	193,-	962-232 R	52,-
5 g	0,016	307-03	96,-	317-030-400	4,-	317-030-600	14,-	317-030-100	26,-	963-233	193,-	962-233 R	52,-
10 g	0,020	307-04	104,-	317-040-400	4,-	317-040-600	14,-	317-040-100	26,-	963-234	193,-	962-234 R	52,-
20 g	0,025	307-05	113,-	317-050-400	4,-	317-050-600	14,-	317-050-100	26,-	963-335	193,-	962-235 R	52,-
50 g	0,030	307-06	135,-	317-060-400	5,-	317-060-600	14,-	317-060-100	27,-	963-236	193,-	962-236 R	52,-
100 g	0,050	307-07	162,-	317-070-400	5,-	317-070-600	14,-	317-070-100	28,-	963-237	193,-	962-237 R	52,-
200 g	0,100	307-08	194,-	317-080-400	5,50	317-080-600	14,-	317-080-100	28,-	963-238	193,-	962-238 R	52,-
500 g	0,250	307-09	280,-	317-090-400	7,-	317-090-600	14,-	317-090-100	29,-	963-239	193,-	962-239 R	52,-
1 kg	0,500	307-11	425,-	317-110-400	8,-	317-110-600	20,-	317-110-100	45,-	963-241	193,-	962-241 R	52,-
2 kg	1,000	307-12	630,-	317-120-400	12,-	317-120-600	25,-	317-120-100	51,-	963-242	465,-	962-242 R	64,-
5 kg	2,500	307-13	1060,-	317-130-400	18,-	317-130-600	40,-	317-130-100	75,-	963-243	465,-	962-243 R	64,-
10 kg	5,000	307-14	1530,-	317-140-400	20,-	317-140-600	57,-	317-140-100	89,-	963-244	465,-	962-244 R	64,-
20 kg	10,000	307-15	3900,-	-	-	317-150-600	130,-	317-150-100	500,-	963-245	1160,-	962-245 R	590,-
50 kg	25,000	307-16	7900,-	-	-	317-160-600	200,-	317-160-100	610,-	963-246	1360,-	962-246 R	660,-

\* For E1 weights > 1g at the point of initial calibration, a volume determination will be carried out in accordance with OIML:R111. When recalibrating, this is not required.

**Class E1 · Weight sets, knob shape, polished stainless steel**

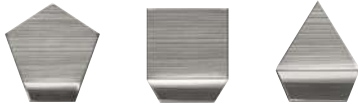
\*\*Plastic case      \*\*\*Aluminium protected case

Weight set	Aluminium protected case, knob shape		Wooden case, knob shape		DAkkS certificate Initial calibration*		DAkkS certificate Recalibration	
	KERN	€	KERN	€	KERN	€	KERN	€
1 mg - 500 mg	308-426***	795,-	308-42**	795,-	962-250	350,-	962-250 R	350,-
1 mg - 50 g	303-026	1510,-	303-02	1540,-	963-201	1070,-	962-201 R	560,-
1 mg - 100 g	303-036	1670,-	303-03	1700,-	963-202	1170,-	962-202 R	580,-
1 mg - 200 g	303-046	2060,-	303-04	2090,-	963-203	1350,-	962-203 R	630,-
1 mg - 500 g	303-056	2390,-	303-05	2420,-	963-204	1440,-	962-204 R	660,-
1 mg - 1 kg	303-066	2780,-	303-06	2840,-	963-205	1530,-	962-205 R	700,-
1 mg - 2 kg	303-076	4090,-	303-07	4150,-	963-206	2000,-	962-206 R	750,-
1 mg - 5 kg	303-086	5200,-	303-08	5300,-	963-207	2450,-	962-207 R	770,-
1 mg - 10 kg	303-096	6790,-	303-09	6890,-	963-208	2900,-	962-208 R	800,-
1 g - 50 g	304-026	880,-	304-02	910,-	963-215	770,-	962-215 R	245,-
1 g - 100 g	304-036	1040,-	304-03	1070,-	963-216	860,-	962-216 R	270,-
1 g - 200 g	304-046	1430,-	304-04	1460,-	963-217	1040,-	962-217 R	320,-
1 g - 500 g	304-056	1760,-	304-05	1790,-	963-218	1130,-	962-218 R	350,-
1 g - 1 kg	304-066	2150,-	304-06	2210,-	963-219	1230,-	962-219 R	375,-
1 g - 2 kg	304-076	3460,-	304-07	3520,-	963-220	1780,-	962-220 R	425,-
1 g - 5 kg	304-086	4570,-	304-08	4670,-	963-221	2230,-	962-221 R	450,-
1 g - 10 kg	304-096	6160,-	304-09	6260,-	963-222	2690,-	962-222 R	485,-

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# Test weights and boxes

## Class E2



Milligram weights, flat polygonal sheet



Individual weights, compact shape



Individual weights, knob shape



Plastic box, lined, for individual weights  $\leq 50$  g



Plastic box, lined, for individual weights  $\geq 100$  g



Aluminium protected box, lined, for individual weights



Wooden box, lined, for individual weights  $\leq 500$  g



Wooden box, lined, for individual weights  $\geq 1$  kg



Milligram weight set in plastic box (318-22)



Milligram weight set in aluminium protected box, lined (318-226)



Plastic case, lined, for weight sets, compact shape/knob shape






Aluminium protected case, lined, for weight sets, compact shape/knob shape






Wooden case, lined, for weight sets, compact shape/knob shape

**Class E2 · Milligram weights, flat polygonal sheet**

Test weight material: Aluminium 1 mg – 5 mg/German silver 10 mg – 500 mg

Weight	Tol +/- mg	Milligram weight, flat polygonal sheet		Plastic box		Aluminium protected box		Wooden box		DAkkS certificate	
		KERN	€	KERN 	€	KERN 	€	KERN 	€	KERN	€
1 mg	0,006	318-01	23,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-351	26,-
2 mg	0,006	318-02	23,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-352	26,-
5 mg	0,006	318-03	23,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-353	26,-
10 mg	0,008	318-04	23,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-354	26,-
20 mg	0,010	318-05	23,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-355	26,-
50 mg	0,012	318-06	23,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-356	26,-
100 mg	0,016	318-07	23,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-357	26,-
200 mg	0,020	318-08	23,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-358	26,-
500 mg	0,025	318-09	23,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-359	26,-





**Class E2 · Individual weights, compact shape or knob shape, polished stainless steel**

Weight	Tol +/- mg	Individual weights, compact shape		Individual weights, knob shape		Plastic box		Aluminium protected box		Wooden box		DAkkS certificate	
		KERN	€	KERN	€	KERN 	€	KERN 	€	KERN 	€	KERN	€
1 g	0,03	316-01	31,-	317-01	45,-	317-020-400	4,-	317-010-600	14,-	317-010-100	26,-	962-331	26,-
2 g	0,04	316-02	33,-	317-02	48,-	317-020-400	4,-	317-020-600	14,-	317-020-100	26,-	962-332	26,-
5 g	0,05	316-03	35,-	317-03	51,-	317-030-400	4,-	317-030-600	14,-	317-030-100	26,-	962-333	26,-
10 g	0,06	316-04	37,-	317-04	54,-	317-040-400	4,-	317-040-600	14,-	317-040-100	26,-	962-334	26,-
20 g	0,08	316-05	42,-	317-05	62,-	317-050-400	4,-	317-050-600	14,-	317-050-100	26,-	962-335	26,-
50 g	0,10	316-06	45,-	317-06	73,-	317-060-400	5,-	317-060-600	14,-	317-060-100	27,-	962-336	26,-
100 g	0,16	316-07	49,-	317-07	80,-	317-070-400	5,-	317-070-600	14,-	317-070-100	28,-	962-337	33,-
200 g	0,30	316-08	62,-	317-08	101,-	317-080-400	5,50	317-080-600	14,-	317-080-100	28,-	962-338	33,-
500 g	0,80	316-09	93,-	317-09	168,-	317-090-400	7,-	317-090-600	14,-	317-090-100	29,-	962-339	33,-
1 kg	1,60	316-11	135,-	317-11	245,-	317-110-400	8,-	317-110-600	20,-	317-110-100	45,-	962-341	33,-
2 kg	3,00	316-12	230,-	317-12	380,-	317-120-400	12,-	317-120-600	25,-	317-120-100	51,-	962-342	41,-
5 kg	8,00	316-13	360,-	317-13	550,-	317-130-400	18,-	317-130-600	40,-	317-130-100	75,-	962-343	41,-
10 kg	16,00	316-14	530,-	317-14	800,-	317-140-400	20,-	317-140-600	57,-	317-140-100	89,-	962-344	41,-
20 kg	30,00	-	-	317-15	1680,-	-	-	317-150-600	130,-	317-150-100	500,-	962-345	52,-
50 kg	80,00	-	-	317-16	3500,-	-	-	317-160-600	200,-	317-160-100	610,-	962-346	64,-

**Class E2 · Weight sets, compact shape or knob shape, polished stainless steel**

Test weight material: Polished stainless steel/German Silver, Individual weights: polished stainless steel.

\*Plastic case      \*\*Aluminium protected case

Weight sets	Compact shape in plastic case		Knob shape in plastic case		Knob shape in aluminium protected case		Knob shape in wooden case		DAkkS certificate	
	KERN 	€	KERN 	€	KERN 	€	KERN 	€	KERN	€
1 mg - 500 mg	318-22*	320,-	-	-	318-226**	330,-	-	-	962-350	190,-
1 mg - 50 g	-	-	313-024	790,-	313-026	810,-	313-02	840,-	962-301	315,-
1 mg - 100 g	-	-	313-034	860,-	313-036	880,-	313-03	910,-	962-302	340,-
1 mg - 200 g	-	-	313-044	1070,-	313-046	1090,-	313-04	1120,-	962-303	385,-
1 mg - 500 g	-	-	313-054	1230,-	313-056	1250,-	313-05	1340,-	962-304	410,-
1 mg - 1 kg	-	-	313-064	1520,-	313-066	1540,-	313-06	1600,-	962-305	435,-
1 mg - 2 kg	-	-	313-074	2330,-	313-076	2350,-	313-07	2410,-	962-306	495,-
1 mg - 5 kg	-	-	313-084	2880,-	313-086	2900,-	313-08	3060,-	962-307	530,-
1 mg - 10 kg	-	-	-	-	313-096	3800,-	313-09	3950,-	962-308	560,-
1 g - 50 g	312-024	340,-	314-024	520,-	314-026	540,-	314-02	560,-	962-315	127,-
1 g - 100 g	312-034	380,-	314-034	590,-	314-036	610,-	314-03	640,-	962-316	150,-
1 g - 200 g	312-044	480,-	314-044	790,-	314-046	810,-	314-04	840,-	962-317	196,-
1 g - 500 g	312-054	570,-	314-054	970,-	314-056	990,-	314-05	1050,-	962-318	220,-
1 g - 1 kg	312-064	750,-	314-064	1230,-	314-066	1250,-	314-06	1310,-	962-319	245,-
1 g - 2 kg	312-074	1160,-	314-074	2050,-	314-076	2070,-	314-07	2130,-	962-320	305,-
1 g - 5 kg	312-084	1490,-	314-084	2600,-	314-086	2620,-	314-08	2780,-	962-321	340,-
1 g - 10 kg	-	-	-	-	314-096	3490,-	314-09	3670,-	962-322	370,-

**Note**

Our highly-accurate OIML test weights are also available as **Premium<sup>+</sup> weights** for that extra level of safety, see all details page 188 or on [www.kern-lab.com/premium+](http://www.kern-lab.com/premium+)



# Test weights and boxes

## Class F1



Milligram weights,  
flat polygonal sheet



Individual weights/  
Weight sets,  
ECO shape



Individual weights/  
Weight sets,  
knob shape



Test weights (10 – 50 kg),  
polished stainless steel, KERN  
327-141 ff, optional: Wooden box



Block weight,  
polished stainless steel



Plastic box,  
lined, for  
individual  
weights  
≤ 200 g



Plastic box,  
lined, for  
individual  
weights  
≥ 500 g



Aluminium protected box, lined,  
for individual weights



Wooden box, lined,  
for individual weights ≤ 500 g



Wooden box, lined,  
for individual weights ≥ 1 kg



Milligram weight  
set in plastic box  
(328-22)



Milligram weight  
set in aluminium  
protected box,  
lined  
(328-226)



Plastic case, lined  
for weight sets, compact shape/  
knob shape



Aluminium protected case, lined,  
for weight sets ECO shape/  
knob shape



Wooden case, lined,  
for weight sets ECO shape/  
knob shape

## Test weights class F1

### Class F1 · Milligram weights, flat polygonal sheet

Test weight material: Aluminium 1 mg – 5 mg/German silver 10 mg – 500 mg

Weight	Tol +/- mg	Milligram weight, flat polygonal sheet		Plastic box		Aluminium protected box		Wooden box		DAkkS certificate	
		KERN	€	KERN	€	KERN	€	KERN	€	KERN	€
1 mg	0,020	328-01	11,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-451	18,-
2 mg	0,020	328-02	11,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-452	18,-
5 mg	0,020	328-03	11,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-453	18,-
10 mg	0,025	328-04	11,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-454	18,-
20 mg	0,03	328-05	11,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-455	18,-
50 mg	0,04	328-06	11,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-456	18,-
100 mg	0,05	328-07	11,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-457	18,-
200 mg	0,06	328-08	11,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-458	18,-
500 mg	0,08	328-09	11,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-459	18,-

### Class F1 · Individual weights, ECO shape or knob shape, polished stainless steel

Weight	Tol +/- mg	Individual weight, ECO shape		Individual weight, knob shape		Plastic box		Aluminium protected box		Wooden box		DAkkS certificate	
		KERN	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€
1 g	0,10	326-01	22,-	327-01	29,-	347-030-400	2,-	317-010-600	14,-	317-010-100	26,-	962-431	18,-
2 g	0,12	326-02	23,-	327-02	29,-	347-030-400	2,-	317-020-600	14,-	317-020-100	26,-	962-432	18,-
5 g	0,16	326-03	25,-	327-03	31,-	347-030-400	2,-	317-030-600	14,-	317-030-100	26,-	962-433	18,-
10 g	0,20	326-04	28,-	327-04	35,-	347-050-400	2,-	317-040-600	14,-	317-040-100	26,-	962-434	18,-
20 g	0,25	326-05	29,-	327-05	39,-	347-050-400	2,-	317-050-600	14,-	317-050-100	26,-	962-435	18,-
50 g	0,30	326-06	32,-	327-06	42,-	347-070-400	2,-	317-060-600	14,-	317-060-100	27,-	962-436	18,-
100 g	0,50	326-07	36,-	327-07	52,-	347-070-400	2,-	317-070-600	14,-	317-070-100	28,-	962-437	20,-
200 g	1,00	326-08	49,-	327-08	68,-	347-080-400	2,-	317-080-600	14,-	317-080-100	28,-	962-438	20,-
500 g	2,50	326-09	79,-	327-09	111,-	347-090-400	3,-	317-090-600	14,-	317-090-100	29,-	962-439	20,-
1 kg	5,00	326-11	104,-	327-11	154,-	347-110-400	3,-	317-110-600	20,-	317-110-100	45,-	962-441	20,-
2 kg	10	326-12	179,-	327-12	240,-	347-120-400	3,-	317-120-600	25,-	317-120-100	51,-	962-442	25,-
5 kg	25	326-13	260,-	327-13	355,-	347-130-400	9,-	317-130-600	40,-	317-130-100	75,-	962-443	25,-
10 kg	50	326-14	485,-	327-14	650,-	347-140-400	9,-	317-140-600	57,-	317-140-100	89,-	962-444	25,-
20 kg	100	-	-	327-15	1350,-	-	-	317-150-600	130,-	317-150-100	500,-	962-445	28,-
50 kg	250	-	-	327-16	2900,-	-	-	317-160-600	200,-	317-160-100	200,-	962-446	39,-

### Class F1 · Block weights, stainless steel polished

Block weight material: stainless steel polished

Weight	Tol +/- mg	Dimensions ø × H	Block weight, stainless steel		Aluminium protected case		DAkkS certificate	
			KERN	€	KERN	€	KERN	€
5 kg	25	145×68×96	326-36	830,-	346-060-600	180,-	962-443	25,-
10 kg	50	193×96×117	326-37	1190,-	346-070-600	180,-	962-444	25,-
20 kg	100	233×115×145	326-38	1580,-	346-080-600	220,-	962-445	28,-
50 kg	250	295×158×191	326-39	3890,-	346-090-600	180,-	962-446	39,-

### Class F1 · Test weights, stainless steel polished, stackable

Test weight material: stainless steel polished

Weight	Tol +/- mg	Test weight, stainless steel		Wooden case		DAkkS certificate	
		KERN	€	KERN	€	KERN	€
10 kg	50	327-141	570,-	337-141-100	325,-	962-444	25,-
20 kg	100	327-151	715,-	337-151-100	350,-	962-445	28,-
50 kg	250	327-161	1820,-	337-161-100	535,-	962-446	39,-

**Class F1 · Weight sets, ECO shape, polished stainless steel**

Test weight material: Polished stainless steel/German Silver, Individual weights: polished stainless steel.

\*Plastic case      \*\*Aluminium protected case

Weight sets	ECO shape in plastic case		ECO shape in aluminium protected case		ECO shape in wooden case		DAkkS certificate	
	KERN	€	KERN	€	KERN	€	KERN	€
1 mg - 500 mg	328-22*	175,-	328-226**	195,-	328-22*	175,-	962-450	100,-
1 mg - 50 g	325-024	395,-	325-026	405,-	325-022	450,-	962-401	167,-
1 mg - 100 g	325-034	430,-	325-036	410,-	325-032	480,-	962-402	178,-
1 mg - 200 g	325-044	520,-	325-046	530,-	325-042	570,-	962-403	199,-
1 mg - 500 g	325-054	580,-	325-056	610,-	325-052	690,-	962-404	210,-
1 mg - 1 kg	325-064	760,-	325-066	770,-	325-062	780,-	962-405	220,-
1 mg - 2 kg	325-074	1010,-	325-076	1080,-	325-072	1110,-	962-406	250,-
1 mg - 5 kg	325-084	1250,-	325-086	1350,-	325-082	1460,-	962-407	265,-
1 mg - 10 kg	-	-	325-096	1950,-	325-092	1980,-	962-408	285,-
1 g - 50 g	326-024	235,-	326-026	260,-	326-022	290,-	962-415	67,-
1 g - 100 g	326-034	270,-	326-036	290,-	326-032	330,-	962-416	77,-
1 g - 200 g	326-044	355,-	326-046	390,-	326-042	425,-	962-417	98,-
1 g - 500 g	326-054	420,-	326-056	490,-	326-052	550,-	962-418	109,-
1 g - 1 kg	326-064	600,-	326-066	620,-	326-062	660,-	962-419	119,-
1 g - 2 kg	326-074	850,-	326-076	920,-	326-072	1020,-	962-420	151,-
1 g - 5 kg	326-084	1090,-	326-086	1190,-	326-082	1400,-	962-421	166,-
1 g - 10 kg	-	-	326-096	1790,-	326-092	1840,-	962-422	182,-

**Class F1 · Weight sets, knob shape, polished stainless steel**

Test weight material: Polished stainless steel/German Silver, Individual weights: polished stainless steel.

\*Plastic case      \*\*Aluminium protected case

Weight sets	Knob shape in plastic case		Knob shape in aluminium protected case		Knob shape in wooden case		DAkkS certificate	
	KERN	€	KERN	€	KERN	€	KERN	€
1 mg - 500 mg	328-22*	175,-	328-226**	195,-	328-22*	175,-	962-450	100,-
1 mg - 50 g	323-024	480,-	323-026	500,-	323-02	520,-	962-401	167,-
1 mg - 100 g	323-034	530,-	323-036	550,-	323-03	570,-	962-402	178,-
1 mg - 200 g	323-044	670,-	323-046	690,-	323-04	710,-	962-403	199,-
1 mg - 500 g	323-054	780,-	323-056	830,-	323-05	880,-	962-404	210,-
1 mg - 1 kg	323-064	1000,-	323-066	1020,-	323-06	1040,-	962-405	220,-
1 mg - 2 kg	323-074	1490,-	323-076	1510,-	323-07	1570,-	962-406	250,-
1 mg - 5 kg	323-084	1830,-	323-086	1870,-	323-08	2010,-	962-407	265,-
1 mg - 10 kg	-	-	323-096	2650,-	323-09	2750,-	962-408	285,-
1 g - 50 g	324-024	330,-	324-026	350,-	324-02	380,-	962-415	67,-
1 g - 100 g	324-034	385,-	324-036	405,-	324-03	435,-	962-416	77,-
1 g - 200 g	324-044	520,-	324-046	540,-	324-04	570,-	962-417	98,-
1 g - 500 g	324-054	630,-	324-056	670,-	324-05	720,-	962-418	109,-
1 g - 1 kg	324-064	850,-	324-066	870,-	324-06	890,-	962-419	119,-
1 g - 2 kg	324-074	1340,-	324-076	1370,-	324-07	1410,-	962-420	151,-
1 g - 5 kg	324-084	1680,-	324-086	1760,-	324-08	1870,-	962-421	166,-
1 g - 10 kg	-	-	324-096	2510,-	324-09	2600,-	962-422	182,-

# Test weights and boxes

## Class F2



Milligram weights, flat polyagonal sheet



Individual weights/Weight sets, knob shape



Block weight, stainless steel



Test weights (10 – 50 kg), finely turned stainless steel KERN 337-141 ff, optional: Wooden box



Plastic box, lined, for individual weights  $\leq 200$  g



Plastic box, lined, for individual weights  $\geq 500$  g



Aluminium protected box, lined, for individual weights



Wooden box, not lined for individual weights  $\leq 500$  g



Wooden box, not lined, for individual weights  $\geq 1$  kg



Milligram weight set in plastic box (338-22)



Milligram weight set in aluminium protected box, lined (338-226)



Plastic case, lined, for weight sets knob shape



Aluminium protected case, lined, for weight sets knob shape






Wooden case, for weight sets knob shape




## Test weights class F2

### Class F2 · Milligram weights, flat polygonal sheet

Test weight material: Aluminium 1 mg – 5 mg/German Silver 10 mg – 500 mg



Weight	Tol +/- mg	Milligram weight, flat polygonal sheet		Plastic box		Aluminium protected box		Wooden box		DAkkS certificate	
		KERN	€	KERN 	€	KERN 	€	KERN 	€	KERN	€
1 mg	0,06	338-01	9,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-451	18,-
2 mg	0,06	338-02	9,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-452	18,-
5 mg	0,06	338-03	9,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-453	18,-
10 mg	0,08	338-04	9,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-454	18,-
20 mg	0,10	338-05	9,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-455	18,-
50 mg	0,12	338-06	9,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-456	18,-
100 mg	0,16	338-07	9,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-457	18,-
200 mg	0,20	338-08	9,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-458	18,-
500 mg	0,25	338-09	9,-	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-459	18,-

### Class F2 · Individual weights, knob shape, finely turned stainless steel

Weight	Tol +/- mg	Individual weight, knob shape		Plastic box		Aluminium protected box		Wooden box		DAkkS certificate	
		KERN	€	KERN 	€	KERN 	€	KERN 	€	KERN	€
1 g	0,3	337-01	18,-	347-030-400	2,-	317-010-600	14,-	337-010-200	16,-	962-431	18,-
2 g	0,4	337-02	19,-	347-030-400	2,-	317-020-600	14,-	337-020-200	16,-	962-432	18,-
5 g	0,5	337-03	20,-	347-030-400	2,-	317-030-600	14,-	337-030-200	17,-	962-433	18,-
10 g	0,6	337-04	22,-	347-050-400	2,-	317-040-600	14,-	337-040-200	17,-	962-434	18,-
20 g	0,8	337-05	25,-	347-050-400	2,-	317-050-600	14,-	337-050-200	17,-	962-435	18,-
50 g	1,0	337-06	27,-	347-070-400	2,-	317-060-600	14,-	337-060-200	17,-	962-436	18,-
100 g	1,6	337-07	30,-	347-070-400	2,-	317-070-600	14,-	337-070-200	17,-	962-437	20,-
200 g	3,0	337-08	40,-	347-080-400	2,-	317-080-600	14,-	337-080-200	17,-	962-438	20,-
500 g	8,0	337-09	57,-	347-090-400	3,-	317-090-600	14,-	337-090-200	19,-	962-439	20,-
1 kg	16	337-11	80,-	347-110-400	3,-	317-110-600	20,-	337-110-200	32,-	962-441	20,-
2 kg	30	337-12	120,-	347-120-400	3,-	317-120-600	25,-	337-120-200	33,-	962-442	25,-
5 kg	80	337-13	205,-	347-130-400	9,-	317-130-600	40,-	337-130-200	53,-	962-443	25,-
10 kg	160	337-14	395,-	347-140-400	9,-	317-140-600	57,-	337-140-200	60,-	962-444	25,-
20 kg	300	337-15	690,-	-	-	317-150-600	130,-	337-150-200	325,-	962-445	28,-
50 kg	800	337-16	1240,-	-	-	317-160-600	200,-	337-160-200	510,-	962-446	39,-

### Class F2 · Test weights, finely turned stainless steel

Test weight material: Finely turned stainless steel

Weight	Tol +/- mg	Test weight, stainless steel		Aluminium protected box		Wooden box	
		KERN	€	KERN 	€	KERN 	€
10 kg	300	337-141	550,-	346-070-600	180,-	337-141-200	300,-
20 kg	800	337-151	670,-	346-080-600	220,-	337-151-200	325,-
50 kg	250	337-161	1790,-	346-090-600	180,-	337-161-200	510,-

### Class F2 · Block weights, stainless steel glass bead blasted

Block weight material: stainless steel glass bead blasted




Weight	Tol +/- mg	Block weight, stainless steel		Aluminium protected case		Wooden case	
		KERN	€	KERN 	€	KERN 	€
5 kg	80	336-36	460,-	346-060-600	180,-	-	-
10 kg	300	336-37	620,-	346-070-600	180,-	337-141-200	300,-
20 kg	800	336-38	780,-	346-080-600	220,-	337-151-200	325,-
50 kg	250	336-39	2070,-	346-090-600	180,-	337-161-200	510,-

**Class F2 · Weight sets, knob shape, finely turned stainless steel**

Test weight material: Milligramm weights Aluminium/German Silver, individual weights stainless steel.

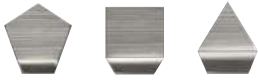
\*Plastic case

\*\*Aluminium protected case

Weight	Knob shape in plastic case		Knob shape in aluminium protected case		Knob shape in wooden case		DAkkS certificate	
	KERN 	€	KERN 	€	KERN 	€	KERN	€
1 mg - 500 mg	338-22*	143,-	338-226**	183,-	338-22*	143,-	962-450	100,-
1 mg - 50 g	333-024	330,-	333-026	335,-	333-02	350,-	962-401	167,-
1 mg - 100 g	333-034	365,-	333-036	370,-	333-03	385,-	962-402	178,-
1 mg - 200 g	333-044	450,-	333-046	455,-	333-04	470,-	962-403	199,-
1 mg - 500 g	333-054	510,-	333-056	520,-	333-05	540,-	962-404	210,-
1 mg - 1 kg	333-064	630,-	333-066	640,-	333-06	660,-	962-405	220,-
1 mg - 2 kg	333-074	890,-	333-076	900,-	333-07	920,-	962-406	250,-
1 mg - 5 kg	333-084	1150,-	333-086	1160,-	333-08	1190,-	962-407	265,-
1 mg - 10 kg	-	-	333-096	1590,-	333-09	1650,-	962-408	285,-
1 g - 50 g	334-024	210,-	334-026	215,-	334-02	230,-	962-415	67,-
1 g - 100 g	334-034	250,-	334-036	255,-	334-03	260,-	962-416	77,-
1 g - 200 g	334-044	330,-	334-046	335,-	334-04	350,-	962-417	98,-
1 g - 500 g	334-054	390,-	334-056	395,-	334-05	410,-	962-418	109,-
1 g - 1 kg	334-064	520,-	334-066	530,-	334-06	540,-	962-419	119,-
1 g - 2 kg	334-074	760,-	334-076	780,-	334-07	810,-	962-420	151,-
1 g - 5 kg	334-084	990,-	334-086	1010,-	334-08	1070,-	962-421	166,-
1 g - 10 kg	-	-	334-096	1490,-	334-09	1530,-	962-422	182,-

# Test weights and boxes

## Class M1



Milligram weights, flat polygonal sheet



Individual weights/Weight sets, knob shape, finely turned stainless steel or finely turned brass



Hook weights, finely turned brass (stainless steel, on request)



Slotted weights, finely turned brass or finely turned stainless steel (on request)



Plastic box, for individual weights  $\leq 200$  g, for hook weights and slotted weights  $\leq 50$  g



Plastic box, lined, for individual weights  $\geq 500$  g, for hook weights and slotted weights  $\geq 100$  g



Aluminium protected box, lined, for individual weights



Wooden box, not lined, for individual weights  $\leq 500$  g



Wooden box, not lined, for individual weights  $\geq 1$  kg



Milligram weight set in plastic box (348-22)



Milligram weight set in aluminium protected box, lined (348-226)



Plastic case, lined, for weight sets, knob shape, stainless steel or finely turned brass



Aluminium protected case, lined, for weight sets, knob shape, stainless steel or finely turned brass



Wooden case, for weight sets, knob shape, stainless steel or finely turned brass



Test weights (10 - 50 kg), finely turned stainless steel KERN 347-141 ff, optional: Wooden box



Beam bars, for fixing slotted weights, aluminium or finely turned brass



Block weights, lacquered cast iron/stainless steel, optional: Aluminium protected case, lined



## Test weights class M1

### Class M1 · Milligram weights, flat polygonal sheet

Test weight material: Aluminium 1 mg – 5 mg/German silver 10 mg – 500 mg

Weight	Tol +/- mg	Milligram weight, flat polygonal sheet		Plastic box		Aluminium protected box		Wooden box		DAkkS certificate	
		KERN	€	KERN	€	KERN	€	KERN	€	KERN	€
1 mg	0,20	348-01	3,90	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-651	15,-
2 mg	0,20	348-02	3,90	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-652	15,-
5 mg	0,20	348-03	3,90	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-653	15,-
10 mg	0,25	348-04	3,90	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-654	15,-
20 mg	0,30	348-05	3,90	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-655	15,-
50 mg	0,40	348-06	3,90	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-656	15,-
100 mg	0,50	348-07	3,90	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-657	15,-
200 mg	0,60	348-08	3,90	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-658	15,-
500 mg	0,80	348-09	3,90	347-009-400	2,-	317-009-600	14,-	338-090-200	17,-	962-659	15,-

### Class M1 · Individual weights, knob shape, finely turned brass or stainless steel

Weight	Tol +/- mg	Individual weight, brass		Individual weight, stainless steel		Plastic box		Aluminium protected box		Wooden box		DAkkS certificate	
		KERN	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€
1 g	1,0	347-41	4,60	347-01	4,60	347-030-400	2,-	317-010-600	14,-	337-010-200	16,-	962-631	15,-
2 g	1,2	347-42	4,80	347-02	4,80	347-030-400	2,-	317-020-600	14,-	337-020-200	16,-	962-632	15,-
5 g	1,6	347-43	5,20	347-03	5,20	347-030-400	2,-	317-030-600	14,-	337-030-200	17,-	962-633	15,-
10 g	2,0	347-44	5,60	347-04	5,60	347-050-400	2,-	317-040-600	14,-	337-040-200	17,-	962-634	15,-
20 g	2,5	347-45	7,10	347-05	6,40	347-050-400	2,-	317-050-600	14,-	337-050-200	17,-	962-635	15,-
50 g	3,0	347-46	8,40	347-06	8,-	347-070-400	2,-	317-060-600	14,-	337-060-200	17,-	962-636	15,-
100 g	5,0	347-47	11,-	347-07	9,60	347-070-400	2,-	317-070-600	14,-	337-070-200	17,-	962-637	16,-
200 g	10	347-48	15,-	347-08	14,-	347-080-400	2,-	317-080-600	28,-	337-080-200	17,-	962-638	16,-
500 g	25	347-49	28,-	347-09	28,-	347-090-400	3,-	317-090-600	29,-	337-090-200	19,-	962-639	16,-
1 kg	50	347-51	45,-	347-11	45,-	347-110-400	3,-	317-110-600	35,-	337-110-200	32,-	962-641	16,-
2 kg	100	347-52	77,-	347-12	77,-	347-120-400	3,-	317-120-600	44,-	337-120-200	33,-	962-642	17,-
5 kg	250	347-53	170,-	347-13	170,-	347-130-400	9,-	317-130-600	66,-	337-130-200	53,-	962-643	17,-
10 kg	500	347-54	330,-	347-14	330,-	347-140-400	9,-	317-140-600	89,-	337-140-200	60,-	962-644	17,-

### Class M1 · Block weights, lacquered cast iron or stainless steel

Block weight material: cast iron or stainless steel, surface and edges refined

Weight	Tol +/- g	Block weight, cast iron		Block weight, stainless steel		Aluminium protected case		DAkkS certificate	
		KERN	€	KERN	€	KERN	€	KERN	€
5 kg	0,25	346-86	50,-	346-06	340,-	346-060-600	180,-	962-643	17,-
10 kg	0,50	346-87	82,-	346-07	460,-	346-070-600	180,-	962-644	17,-
20 kg	1,00	346-88	145,-	346-08	620,-	346-080-600	220,-	962-645	22,-
50 kg	2,50	346-89	360,-	346-09	1660,-	346-090-600	180,-	962-646	24,-

### Class M1 · ECO Block weights, lacquered cast iron

ECO Block weight material: cast iron, surface and edges machined

Weight	Tol +/- g	ECO Block weight, cast iron		Aluminium protected case		DAkkS certificate	
		KERN	€	KERN	€	KERN	€
5 kg	0,25	346-76	42,-	346-060-600	180,-	962-643	17,-
10 kg	0,50	346-77	70,-	346-070-600	180,-	962-644	17,-
20 kg	1,00	346-78	115,-	346-080-600	220,-	962-645	22,-
50 kg	2,50	346-79	280,-	346-090-600	180,-	962-646	24,-



**Class M1 · Test weights, stainless steel, stackable**

Test weight material: finely turned stainless steel

Weight	Tol +/- g	Test weight, stainless steel		Wooden box		DAkkS certificate	
		KERN	€	KERN	€	KERN	€
10 kg	0,5	347-141	500,-	337-141-200	300,-	962-644	17,-
20 kg	1,0	347-151	610,-	337-151-200	325,-	962-645	22,-
50 kg	2,5	347-161	1650,-	337-161-200	510,-	962-646	24,-

**Class M1 · Heavy duty weights, lacquered cast iron, stackable**

Designed to be lifted with forklift trucks or cranes, delivery time is approx. 4 weeks

Dimensions: see internet on [www.kern-sohn.com](http://www.kern-sohn.com)

Weight	Tol +/- g	Heavy duty weight, cast iron		DAkkS certificate	
		KERN	€	KERN	€
100 kg	5	346-81	1620,-	962-691	63,-
200 kg	10	346-82	2070,-	962-692	63,-
500 kg	25	346-83	4100,-	962-693	63,-
1000 kg	50	346-84	6880,-	962-694	136,-
2000 kg	100	346-85	12770,-	962-695	250,-



**Note**

We also offer a large range of heavy-duty weights in other materials, for example, stainless steel and in other forms, for example, discs or individual weight containers, please ask for details.

**Class M1 · Weight sets, knob shape, finely turned brass or stainless steel**

Test weight material: Milligramm weights Aluminium/German silver, individual weights finely turned brass or stainless steel.

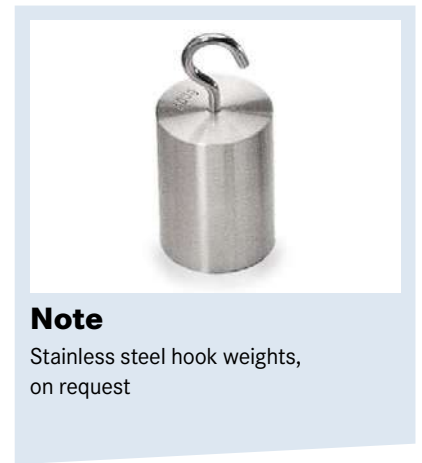
\*Plastic case

\*\*Aluminium protected case

Weight	Knob shape, finely turned brass, in plastic case		Knob shape, finely turned stainless steel, in plastic case		Knob shape, finely turned brass, in wooden case		Knob shape, finely turned stainless steel, in wooden case		Knob shape, finely turned, brass, in aluminium protected case		Knob shape, finely turned stainless steel, in aluminium protected case		DAkkS certificate	
	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€
1 mg - 500 mg	348-22*	83,-	348-22*	83,-	348-22*	83,-	348-22*	83,-	348-226**	119,-	348-226**	119,-	962-650	63,-
1 mg - 50 g	343-424	173,-	343-024	172,-	343-42	160,-	343-02	159,-	343-426	158,-	343-026	157,-	962-601	106,-
1 mg - 100 g	343-434	184,-	343-034	183,-	343-43	174,-	343-03	173,-	343-436	168,-	343-036	167,-	962-602	112,-
1 mg - 200 g	343-444	220,-	343-044	215,-	343-44	205,-	343-04	200,-	343-446	198,-	343-046	197,-	962-603	125,-
1 mg - 500 g	343-454	245,-	343-054	240,-	343-45	240,-	343-05	235,-	343-456	225,-	343-056	225,-	962-604	131,-
1 mg - 1 kg	343-464	390,-	343-064	380,-	343-46	350,-	343-06	340,-	343-466	330,-	343-066	320,-	962-605	137,-
1 mg - 2 kg	343-474	540,-	343-074	520,-	343-47	520,-	343-07	510,-	343-476	485,-	343-076	480,-	962-606	152,-
1 mg - 5 kg	343-484	710,-	343-084	690,-	343-48	720,-	343-08	710,-	343-486	690,-	343-086	680,-	962-607	160,-
1 mg - 10 kg	-	-	-	-	343-49	1100,-	343-09	1090,-	343-496	1080,-	343-096	1070,-	962-608	167,-
1 g - 50 g	344-424	111,-	344-024	111,-	344-42	109,-	344-02	109,-	344-426	107,-	344-026	107,-	962-615	42,-
1 g - 100 g	344-434	122,-	344-034	122,-	344-43	119,-	344-03	119,-	344-436	117,-	344-036	117,-	962-616	49,-
1 g - 200 g	344-444	151,-	344-044	150,-	344-44	149,-	344-04	148,-	344-446	147,-	344-046	146,-	962-617	61,-
1 g - 500 g	344-454	180,-	344-054	178,-	344-45	178,-	344-05	177,-	344-456	176,-	344-056	174,-	962-618	68,-
1 g - 1 kg	344-464	315,-	344-064	310,-	344-46	275,-	344-06	270,-	344-466	250,-	344-066	235,-	962-619	74,-
1 g - 2 kg	344-474	465,-	344-074	455,-	344-47	445,-	344-07	435,-	344-476	440,-	344-076	430,-	962-620	89,-
1 g - 5 kg	344-484	630,-	344-084	620,-	344-48	660,-	344-08	650,-	344-486	620,-	344-086	610,-	962-621	96,-
1 g - 10 kg	-	-	-	-	344-49	1040,-	344-09	1020,-	344-496	1030,-	344-096	1010,-	962-622	104,-

**Class M1 · Hook weights, finely turned brass**

Weight	Tol +/- mg	Hook weight, brass		Plastic box, lined		DAkkS certificate	
		KERN	€	KERN	€	KERN	€
1 g	1,0	347-416	16,-	347-030-400	2,-	962-631	15,-
2 g	1,2	347-426	17,-	347-030-400	2,-	962-632	15,-
5 g	1,6	347-436	17,-	347-030-400	2,-	962-633	15,-
10 g	2,0	347-446	17,-	347-050-400	2,-	962-634	15,-
20 g	2,5	347-456	18,-	347-050-400	2,-	962-635	15,-
50 g	3,0	347-466	20,-	347-070-400	2,-	962-636	15,-
100 g	5,0	347-476	24,-	347-090-400	3,-	962-637	16,-
200 g	10,0	347-486	31,-	347-090-400	3,-	962-638	16,-
500 g	25,0	347-496	51,-	347-110-400	3,-	962-639	16,-
1 kg	50,0	347-516	74,-	347-120-400	3,-	962-641	16,-
2 kg	100,0	347-526	119,-	347-130-400	9,-	962-642	17,-
5 kg	250,0	347-536	220,-	347-140-400	9,-	962-643	17,-
10 kg	500,0	347-546	350,-	-	-	962-644	17,-



**Class M1 · Slotted weights, finely turned brass**

Weight	Tol +/- mg	Slotted weight, brass		Plastic box, lined		DAkkS certificate	
		KERN	€	KERN	€	KERN	€
1 g	1,0	347-415	14,-	347-030-400	2,-	962-631	15,-
2 g	1,2	347-425	14,-	347-030-400	2,-	962-632	15,-
5 g	1,6	347-435	15,-	347-030-400	2,-	962-633	15,-
10 g	2,0	347-445	17,-	347-030-400	2,-	962-634	15,-
20 g	2,5	347-455	20,-	347-080-400	2,-	962-635	15,-
50 g	3,0	347-465	22,-	347-080-400	2,-	962-636	15,-
100 g	5,0	347-475	25,-	347-090-400	3,-	962-637	16,-
200 g	10	347-485	33,-	347-090-400	3,-	962-638	16,-
500 g	25	347-495	52,-	347-110-400	3,-	962-639	16,-
1 kg	50	347-515	81,-	347-130-400	9,-	962-641	16,-
2 kg	100	347-525	132,-	347-130-400	9,-	962-642	17,-
5 kg	250	347-535	210,-	347-140-400	9,-	962-643	17,-
10 kg	500	347-545	385,-	347-140-400	9,-	962-644	17,-

**Class M1 · Beam bars, for fixing slotted weights**

Own weight beam bar	Maximum total load <sup>(1)</sup>	Largest slotted weight possible	Material	Beam bar		DAkkS certificate	
				KERN	€	KERN	€
10 g	200 g	100 g	Aluminium	347-445-100*	30,-	962-634	15,-
100 g	2 kg	1 kg	Brass	347-475-100**	50,-	962-637	16,-
500 g	20 kg	10 kg	Brass	347-495-100***	77,-	962-639	16,-
1 kg	40 kg	10 kg	Brass	347-515-100***	114,-	962-641	16,-

<sup>(1)</sup> is exclusive of the own weight of the beam bar, e.g. the maximum possible total weight is calculated from "Maximum total load" + "own weight beam bar"

**Newton weights (N)**

All hook and slotted weights as well as beam bars are available with N adjustment according to M1 tolerances, additional price € 8,-/pc. We need to know the location of use and postal code.

**DAkkS calibration certificate for N weights:** identical to DAkkS prices for individual weights M1, additional price € 8,-.

# Test weights and boxes

## Classes M2 · M3



Individual weights/Weight sets,  
knob shape, finely turned brass



Individual weights/Weight sets,  
knob shape, lacquered cast iron



Block weights,  
lacquered cast iron



Plastic box, lined,  
for individual weights



Aluminium protected box,  
lined, for individual weights



Wooden box, not lined, for  
individual weights  $\leq 500$  g,  
\*not appropriate for cast  
iron weights



Wooden box, not lined, for  
individual weights  $\geq 1$  kg,  
\*not appropriate for cast  
iron weights



Aluminium protected case,  
lined, for block weights



Plastic case, lined, for weight sets  
knob shape, stainless steel or  
finely turned brass



Aluminium protected case, lined,  
for weight sets knob shape, finely  
turned brass, \*not appropriate for  
cast iron weights



Wooden case,  
for weight sets knob shape,  
finely turned brass



Wooden block,  
for weight sets knob shape,  
lacquered cast iron

**Class M2 · Individual weights, knob shape, finely turned brass**

Weight	Tol +/- mg	Individual weight, knob shape		Plastic box, lined		Aluminium protected box		Wooden box		DAkkS certificate	
		KERN	€	KERN	€	KERN	€	KERN	€	KERN	€
1 g	3	357-41	3,50	347-030-400	2,-	317-010-600	14,-	337-010-200	17,-	962-631	15,-
2 g	4	357-42	3,70	347-030-400	2,-	317-020-600	14,-	337-020-200	17,-	962-632	15,-
5 g	5	357-43	4,10	347-030-400	2,-	317-030-600	14,-	337-030-200	17,-	962-633	15,-
10 g	6	357-44	4,40	347-050-400	2,-	317-040-600	14,-	337-040-200	17,-	962-634	15,-
20 g	8	357-45	7,10	347-050-400	2,-	317-050-600	14,-	337-050-200	17,-	962-635	15,-
50 g	10	357-46	8,40	347-070-400	2,-	317-060-600	14,-	337-060-200	17,-	962-636	15,-
100 g	16	357-47	11,-	347-070-400	2,-	317-070-600	14,-	337-070-200	17,-	962-637	16,-
200 g	30	357-48	15,-	347-080-400	2,-	317-080-600	14,-	337-080-200	17,-	962-638	16,-
500 g	80	357-49	28,-	347-090-400	3,-	317-090-600	14,-	337-090-200	19,-	962-639	16,-
1 kg	160	357-51	41,-	347-110-400	3,-	317-110-600	20,-	337-110-200	32,-	962-641	16,-
2 kg	300	357-52	76,-	347-120-400	3,-	317-120-600	25,-	337-120-200	33,-	962-642	17,-
5 kg	800	357-53	166,-	347-130-400	9,-	317-130-600	40,-	337-130-200	53,-	962-643	17,-
10 kg	1600	357-54	330,-	347-140-400	9,-	317-140-600	57,-	337-140-200	60,-	962-644	17,-

**Class M2 · Block weights, lacquered cast iron**

Block weight material: cast iron, surface and edges refined

Weight	Tol +/- g	Block weight, cast iron		Aluminium protected box		DAkkS certificate	
		KERN	€	KERN	€	KERN	€
5 kg	0,8	356-86	50,-	346-060-600	180,-	962-643	17,-
10 kg	1,6	356-87	82,-	346-070-600	180,-	962-644	17,-
20 kg	3,0	356-88	145,-	346-080-600	220,-	962-645	22,-
50 kg	8,0	356-89	360,-	346-090-600	180,-	962-646	24,-

**Class M2 · ECO Block weights, lacquered cast iron**

ECO Block weight material: lacquered cast iron

Weight	Tol +/- g	ECO block weight, cast iron		Aluminium protected box		DAkkS certificate	
		KERN	€	KERN	€	KERN	€
5 kg	0,8	356-76	42,-	346-060-600	180,-	962-643	17,-
10 kg	1,6	356-77	70,-	346-070-600	180,-	962-644	17,-
20 kg	3,0	356-78	115,-	346-080-600	220,-	962-645	22,-
50 kg	8,0	356-79	280,-	346-090-600	180,-	962-646	24,-

**Class M2 · Weight sets, knob shape, finely turned brass**

Weight	Knob shape, in aluminium protected case		Knob shape, in wooden case		DAkkS certificate	
	KERN	€	KERN	€	KERN	€
1 g - 50 g	354-426	105,-	354-42	82,-	962-615	42,-
1 g - 100 g	354-436	116,-	354-43	100,-	962-616	49,-
1 g - 200 g	354-446	147,-	354-44	140,-	962-617	61,-
1 g - 500 g	354-456	176,-	354-45	173,-	962-618	68,-
1 g - 1 kg	354-466	265,-	354-46	265,-	962-619	74,-
1 g - 2 kg	354-476	440,-	354-47	440,-	962-620	89,-
1 g - 5 kg	354-486	650,-	354-48	650,-	962-621	96,-
1 g - 10 kg	354-496	1020,-	354-49	1020,-	962-622	104,-

**Class M3 · Individual weights, knob shape, finely turned brass**

Weight	Tol +/- mg	Individual weight, knob shape		Plastic box, lined		Aluminium protected box		Wooden box		DAkkS certificate	
		KERN	€	KERN	€	KERN	€	KERN	€	KERN	€
1 g	10	367-41	3,30	347-030-400	2,-	317-010-600	14,-	337-010-200	16,-	962-631	15,-
2 g	12	367-42	3,40	347-030-400	2,-	317-020-600	14,-	337-020-200	16,-	962-632	15,-
5 g	16	367-43	3,90	347-030-400	2,-	317-030-600	14,-	337-030-200	17,-	962-633	15,-
10 g	20	367-44	4,10	347-050-400	2,-	317-040-600	14,-	337-040-200	17,-	962-634	15,-
20 g	25	367-45	6,30	347-050-400	2,-	317-050-600	14,-	337-050-200	17,-	962-635	15,-
50 g	30	367-46	7,60	347-070-400	2,-	317-060-600	14,-	337-060-200	17,-	962-636	15,-
100 g	50	367-47	9,90	347-070-400	2,-	317-070-600	14,-	337-070-200	17,-	962-637	16,-
200 g	100	367-48	14,-	347-080-400	2,-	317-080-600	14,-	337-080-200	17,-	962-638	16,-
500 g	250	367-49	28,-	347-090-400	3,-	317-090-600	14,-	337-090-200	19,-	962-639	16,-
1 kg	500	367-51	42,-	347-110-400	3,-	317-110-600	20,-	337-110-200	32,-	962-641	16,-
2 kg	1000	367-52	76,-	347-120-400	3,-	317-120-600	25,-	337-120-200	53,-	962-642	17,-

**Class M3 · Individual weights, knob and cylindrical shape, lacquered cast iron**

Weight	Tol +/- g	Individual weight, knob and cylindrical shape		DAkkS certificate	
		KERN	€	KERN	€
100 g*	0,05	366-91	15,-	962-637	16,-
200 g*	0,10	366-92	16,-	962-638	16,-
500 g**	0,25	366-93	23,-	962-639	16,-
1 kg**	0,50	366-94	30,-	962-641	16,-
2 kg**	1,0	366-95	53,-	962-642	17,-
5 kg**	2,5	366-96	93,-	962-643	17,-
10 kg**	5,0	366-97	164,-	962-644	17,-



**Class M3 · Block weights, lacquered cast iron**

Block weight material: cast iron, surface and edges refined

Weight	Tol +/- g	Block weight, cast iron		Aluminium protected box		DAkkS certificate	
		KERN	€	KERN	€	KERN	€
5 kg	2,5	366-86	50,-	346-060-600	180,-	962-643	17,-
10 kg	5,0	366-87	82,-	346-070-600	180,-	962-644	17,-
20 kg	10	366-88	145,-	346-080-600	220,-	962-645	22,-
50 kg	25	366-89	360,-	346-090-600	180,-	962-646	24,-

**Class M3 · ECO Block weights, lacquered cast iron**

ECO Block weight material: lacquered cast iron

Weight	Tol +/- g	ECO block weight, cast iron		Aluminium protected box		DAkkS certificate	
		KERN	€	KERN	€	KERN	€
5 kg	2,5	366-76	42,-	346-060-600	180,-	962-643	17,-
10 kg	5,0	366-77	70,-	346-070-600	180,-	962-644	17,-
20 kg	10	366-78	115,-	346-080-600	220,-	962-645	22,-
50 kg	25	366-79	280,-	346-090-600	180,-	962-646	24,-

**Class M3 · Weight sets, knob and cylindrical shape, brass and lacquered cast iron**

Weight	Knob and cylindrical shape, in wooden block		DAkkS certificate	
	KERN	€	KERN	€
1 g - 1 kg	362-96	180,-	962-619	74,-
1 g - 2 kg	362-97	295,-	962-620	89,-
1 g - 5 kg	362-98	390,-	962-621	96,-
1 g - 10 kg	362-99	570,-	962-622	104,-



Individual weights ≤ 50 g



Individual weights 100 g and 200 g



Individual weights ≥ 500 g

**Tweezers, weight grips, gloves, dusting brush**



<b>Tweezers</b>					
to be able to safely grip small test weights					
For class	For weight	Length	Version	KERN	€
E1 - M3	1 mg - 200 g	105 mm	1 Stainless steel with silicone-coated tips	315-243	14,-
E1 - M3	500 g - 2 kg	250 mm	1 Stainless steel with silicone-coated tips	315-245	39,-
E1 - M3	≤ 5 g	130 mm	2 Stainless steel, curved, high-quality plastic tips	315-246	22,-
E1 - M3	≤ 5 g	136 mm	3 Stainless steel, straight, high quality plastic tips	315-247	22,-
E1 - M3	≤ 200 g	225 mm	4 Stainless steel, straight, high-quality plastic tips, with a special shape for gripping weights of various shapes and sizes	315-248	35,-
F2 - M3	1 mg - 200 g	100 mm	5 Stainless steel	335-240	8,00
E1 - M3	1 mg - 200 g	100 mm	6 Plastic	315-242	6,20

<b>Weight grip</b> plastic coated				
For class	for knob shaped weights	KERN	€	
E1 - M3	2 kg	315-273	26,-	
E1 - M3	5 kg	315-274	30,-	
E1 - M3	10 kg	315-275	35,-	
E1 - M3	20 kg	315-276	49,-	



1 not appropriate for cast iron weights



<b>Gloves</b>	
cotton, 1 pair. Help to protect the test weights when being used daily, from grease from fingers, damp etc.	
KERN	€
317-280	2,50



<b>Gloves</b>	
leather/cotton, 1 pair. Help to protect the test weights when being used daily, from grease from fingers, damp etc.	
KERN	€
317-290	6,90



<b>Premium gloves</b>	
Nylon, 1 pair. Particularly elastic, one size fits all, with special fingertip coating to ensure a safe grip. Helps to protect the test weights in everyday use from grease from fingers, damp etc.	
KERN	€
317-281	11,-



<b>Dusting brush</b>	
to clean the weights	
KERN	€
318-270	2,50



<b>Bellows</b>	
for cleaning weights	
KERN	€
318-271	7,-



<b>Microfibre cloth</b>	
for cleaning weights	
KERN	€
318-272	3,50

**Boxes for individual weights**



For weights ≤ 500 g, OIML class E1 - F1  
For weights ≥ 1 kg, OIML class E1 - F1

Case material: Wood, lined, suitable for single weights, KERN-Nr. 307, 316, 317, 326, 327



For weights ≤ 500 g, OIML class F2 - M3  
For weights ≥ 1 kg, OIML class F2 - M3

Case material: Wood, suitable for single weights, KERN-Nr. 337, 347, 357, 367  
\*not suitable for cast iron weights



For test weights ≥ 10 kg, OIML class F1 - M1

Case material: Wood, suitable for single weights, KERN-Nr. 327, 337, 347  
\*not suitable for cast iron weights

**Wooden box, lined**  
for single weights E1 - F1

For weights	KERN	€
mg	338-090-200	17,-
1 g	317-010-100	26,-
2 g	317-020-100	26,-
5 g	317-030-100	26,-
10 g	317-040-100	26,-
20 g	317-050-100	26,-
50 g	317-060-100	27,-
100 g	317-070-100	28,-
200 g	317-080-100	28,-
500 g	317-090-100	29,-
1 kg	317-110-100	45,-
2 kg	317-120-100	51,-
5 kg	317-130-100	75,-
10 kg	317-140-100	89,-
20 kg	317-150-100	500,-
50 kg	317-160-100	610,-

**Wooden box,**  
for single weights F2 - M3

For weights	KERN	€
mg	338-090-200	17,-
1 g	337-010-200	16,-
2 g	337-020-200	16,-
5 g	337-030-200	17,-
10 g	337-040-200	17,-
20 g	337-050-200	17,-
50 g	337-060-200	17,-
100 g	337-070-200	17,-
200 g	337-080-200	17,-
500 g	337-090-200	19,-
1 kg	337-110-200	32,-
2 kg	337-120-200	33,-
5 kg	337-130-200	53,-
10 kg	337-140-200	60,-
20 kg	337-150-200	325,-
50 kg	337-160-200	510,-

**Wooden box**  
for test weights F1 - M1

For weights	KERN	€
10 kg	337-141-200	300,-
20 kg	337-151-200	325,-
50 kg	337-161-200	510,-



For weights ≤ 5 kg, OIML class E1 - M3

Case material: Aluminium protected, lined, suitable for single weights, KERN-Nr. 307, 316, 317, 326, 327, 337, 347, 357, 367  
\*not suitable for cast iron weights

**Aluminium protected box, lined**  
for individual weights, knob and compact shape, class E1 - M3

For weights	KERN	€
Individual weight, mg	317-009-600	14,-
1 g	317-010-600	14,-
2 g	317-020-600	14,-
5 g	317-030-600	14,-
10 g	317-040-600	14,-
20 g	317-050-600	14,-
50 g	317-060-600	14,-
100 g	317-070-600	14,-
200 g	317-080-600	14,-
500 g	317-090-600	14,-
1 kg	317-110-600	20,-
2 kg	317-120-600	25,-
5 kg	317-130-600	40,-



For weights ≤ 10 kg, OIML class E1 - M3

Case material: Aluminium protected, lined, suitable for single weights, KERN-Nr. 307, 316, 317, 326, 327, 337, 347, 357, 367  
\*not suitable for cast iron weights

**Aluminium protected box, lined**  
for individual weights, knob and compact shape, class E1 - M3

For weights	KERN	€
10 kg	317-140-600	57,-
20 kg	317-150-600	130,-
50 kg	317-160-600	200,-



For block weight ≥ 5 kg, OIML class F1 - M3

Case material: Aluminium protected, lined, suitable for block weights, KERN-Nr. 346, 356, 366

**Aluminium protected case, lined**  
for individual weights F1 - M3

For weights	KERN	€
5 kg	346-060-600	180,-
10 kg	346-070-600	180,-
20 kg	346-080-600	180,-

## Carrying cases/boxes for individual weight sets

### Individual weight sets:

You can create your own "tailor-made" individual weight sets yourself. KERN will customise your own personal wooden box/plastic carrying case. The largest individual weight which will fit is given in the table.

### Sample order:

Your individual weight set:


1 × 50 g, 2 × 100 g, 1 × 500 g, 2 × 1 kg, 1 × 2 kg.

The correct individual box is **KERN-Nr. 313-080-400** (plastic) or **KERN-Nr. 315-070-100** (wood)




#### Plastic case

for individual weight sets classes E1 - M3, not appropriate for cast iron weights


Largest possible weight	KERN		€
≤ 500 g	313-050-400		<b>92,-</b>
≤ 5 kg	313-080-400		<b>190,-</b>

#### Wooden case

lined, for individual weight sets classes E1 - F1  
\* with side handles

Largest possible weight	KERN		€
≤ 200 g	315-040-100		<b>129,-</b>
≤ 1 kg	315-060-100		<b>205,-</b>
≤ 2 kg	315-070-100		<b>250,-</b>
≤ 5 kg*	315-080-100		<b>350,-</b>
≤ 10 kg*	315-090-100		<b>465,-</b>

**Wooden case not lined**, for individual weight set classes F2 - M3, not appropriate for cast iron weights  
\* with side handles

Largest possible weight	KERN		€
≤ 200 g	335-040-200		<b>65,-</b>
≤ 500 g	335-050-200		<b>65,-</b>
≤ 1 kg	335-060-200		<b>115,-</b>
≤ 2 kg	335-070-200		<b>136,-</b>
≤ 5 kg*	335-080-200		<b>210,-</b>
≤ 10 kg*	335-090-200		<b>300,-</b>

## Carrying cases for standard weight sets




Fig. shows  
313-010-600

Aluminium protected case for safe storage and transportation under harsh industrial conditions.


#### Plastic case for weight sets

with standard denomination classes E1 - M3, not appropriate for cast iron weights

Largest possible weight	KERN		€
≤ 500 g	313-052-400		<b>65,-</b>
≤ 5 kg	313-082-400		<b>154,-</b>

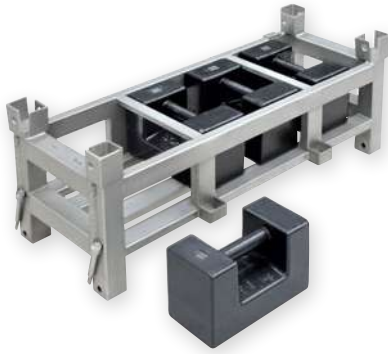
#### Aluminium protected case

for weight sets with standard denomination classes E1 - M2

For weights	For class	KERN		€
1 mg - 500 mg	E1 - M1	313-010-600		<b>75,-</b>
1 mg - 50 g	E1 - M1	313-020-600		<b>99,-</b>
1 mg - 100 g	E1 - M1	313-030-600		<b>108,-</b>
1 mg - 200 g	E1 - M1	313-040-600		<b>115,-</b>
1 mg - 500 g	E1 - M1	313-050-600		<b>139,-</b>
1 mg - 1 kg	E1 - M1	313-060-600		<b>169,-</b>
1 mg - 2 kg	E1 - M1	313-070-600		<b>199,-</b>
1 mg - 5 kg	E1 - M1	313-080-600		<b>265,-</b>
1 mg - 10 kg	E1 - M1	313-090-600		<b>340,-</b>
1 g - 50 g	E1 - M2	314-020-600		<b>94,-</b>
1 g - 100 g	E1 - M2	314-030-600		<b>103,-</b>
1 g - 200 g	E1 - M2	314-040-600		<b>110,-</b>
1 g - 500 g	E1 - M2	314-050-600		<b>134,-</b>
1 g - 1 kg	E1 - M2	314-060-600		<b>164,-</b>
1 g - 2 kg	E1 - M2	314-070-600		<b>194,-</b>
1 g - 5 kg	E1 - M2	314-080-600		<b>260,-</b>
1 g - 10 kg	E1 - M2	314-090-600		<b>335,-</b>



## Weight carriers for block weights or other test weights



Individual weight carriers for testing high capacity floor scales, pallet scales, pallet truck scales, crane scales, etc. This can also be used for storing the weights. This means the weight container and the weights can be placed on the scale in one go, saving time and money.

The weight container can be calibrated to OIML accuracy classes M1 – M3. On request, KERN will make you a “tailor-made” weight carrier to your specifications.

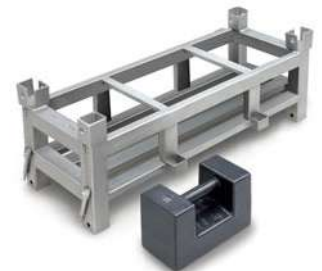
Example:

9 block weights	each 50 kg, class M1 =	450 kg
1 weight container	each 50 kg, class M1 =	50 kg
<b>Total</b>		<b>= 500 kg</b>

## Weight containers for rectangular weights or other test weights, adjusted to OIML class M1

Preconfigured weight containers for testing high-load floor scales, pallet scales, pallet truck scales, crane scales, etc. This can also be used for storing the weights. This means the weight container and the weights can be placed on the balance in one go, saving you time and money. The weight container is adjusted to OIML accuracy class M1. Other OIML accuracy classes are also available, please ask.

Weight of the weight container, OIML class M1	Tol +/- g	Possible equipment, rectangular weights, OIML class M1	Maximum total weight (weight container incl. weights)	Price (weight container excluding weights)	
				KERN	€
20 kg	1,0	5 × 20 kg	120 kg	346-022-005	1420,-
40 kg	1,5	8 × 20 kg	200 kg	346-042-008	1910,-
50 kg	2,5	10 × 20 kg	250 kg	346-052-010	1840,-
50 kg	2,5	4 × 50 kg	250 kg	346-055-004	1840,-
50 kg	2,5	9 × 50 kg	500 kg	346-055-009	1840,-
60 kg	3,0	8 × 50 kg and 2 × 20 kg	500 kg	346-065-009	1990,-



Weight of the weight container, OIML class M1	Tol +/- g	Possible equipment, test weights, OIML class M1	Maximum total weight (weight container incl. weights)	Price (weight container excluding weights)	
				KERN	€
20 kg	1,0	max. 10 × 10 kg or 5 × 20 kg	120 kg	347-022-005	1460,-
40 kg	2,0	max. 16 × 10 kg or 8 × 20 kg	200 kg	347-042-008	1740,-
50 kg	2,5	max. 20 × 10 kg or 10 × 20 kg	250 kg	347-052-010	1890,-
60 kg	3,0	max. 22 × 20 kg	500 kg	347-062-022	1990,-



## Individual weight containers for rectangular weights or other test weights, calibrated to OIML class M1

Weight of the weight container, OIML class M1	Price (weight container excluding weights)	
	KERN	€
Individual weight container for rectangular weights	346-000-000	Price on request
Individual weight container for test weights	347-000-000	Price on request

## DAkKS Calibration Service and Verification service



### The DAkKS (German accreditation body)

The DAkKS is the national accreditation body of the Federal Republic of Germany. According to Regulation (EC) No. 765/2008 and the Accreditation Body Act (AkkStelleG), the DAkKS acts in the public interest as the sole service provider for accreditation in Germany.

In order to be able to fulfil its sovereign accreditation tasks, the DAkKS was entrusted by the Federal Government. As an entrusted body, the DAkKS is subject to federal supervision.

Only an accredited calibration laboratory can issue a DAkKS calibration certificate. This defines not only the measuring method as well as the measuring result, but also gives information on tracing the test medium to national standards and the relevant uncertainty of measurement.

- ▶ **You are certified to ...**  
ISO 9001, QS 9000, GLP, GMP, TS16949
- ▶ **You need ...**  
to control your measuring equipment
- ▶ **Our solution ...**  
DAkKS calibration certificate; (traceability, measuring uncertainty, internationally recognised)

### KERN – Precision is our business

The KERN calibration laboratory for electronic balances and weights has been accredited by DKD since 1994 and today is one of the most modern and best-equipped DKD calibration laboratories for balances, test weights and force measurement in Europe.

Thanks to the high level of automation, we can carry out DAkKS calibration of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

Do you have any further requests or questions on this matter? We would be pleased to help you or visit us on the web at [www.kern-lab.com](http://www.kern-lab.com)

### DAkKS calibration

- Why?** DAkKS calibration is always necessary when checking equipment (balance or test weight) is to be used in a QM process (e.g. to ISO 9000ff, GS 9000, TS 16949, VDA 6.1, FDA, GLP, GMP, GMP etc.)
- What?** Any checking equipment in proper condition can be DAkKS calibrated
- How?** Determination of accuracy throughout the world by a laboratory which is accredited to DIN EN ISO 17025. Traceability to internationally recognised standards. The DAkKS calibration certificate confirms both the measurement characteristics of the checking equipment and the general requirements for the control of checking equipment.
- Where?** Internationally recognised – this is monitored by ILAC (International Laboratory Accreditation Cooperation) and e.g. DAkKS (German calibration service) in Germany
- When?** Operator control the use of checking equipment and periodic recalibration time intervals themselves

### Range of services:

- DAkKS calibration of balances with a maximum load of up to 50.000 kg
- DAkKS calibration of weights in the range of 1 mg – 2.500 kg. Calibrations can be carried out in the following classes: E1, E2, F1, F2, M1, M2, M3
- DAkKS calibration of force gauges and force transducers
- Volume determination for weights of accuracy class E1
- Measuring of sensitivity (magnetic characteristics)
- Factory calibration in various sizes:
- Force (sensors and measuring devices), hardness (Shore, UCI, Leeb, etc.), thickness of coatings and walls, torque wrench testing devices, and much more
- Conformity assessments and recalibration of balances and weights at the KERN verification point, working closely with the verification authorities

And on top of all these services, we also offer additional services – see page 212/213.



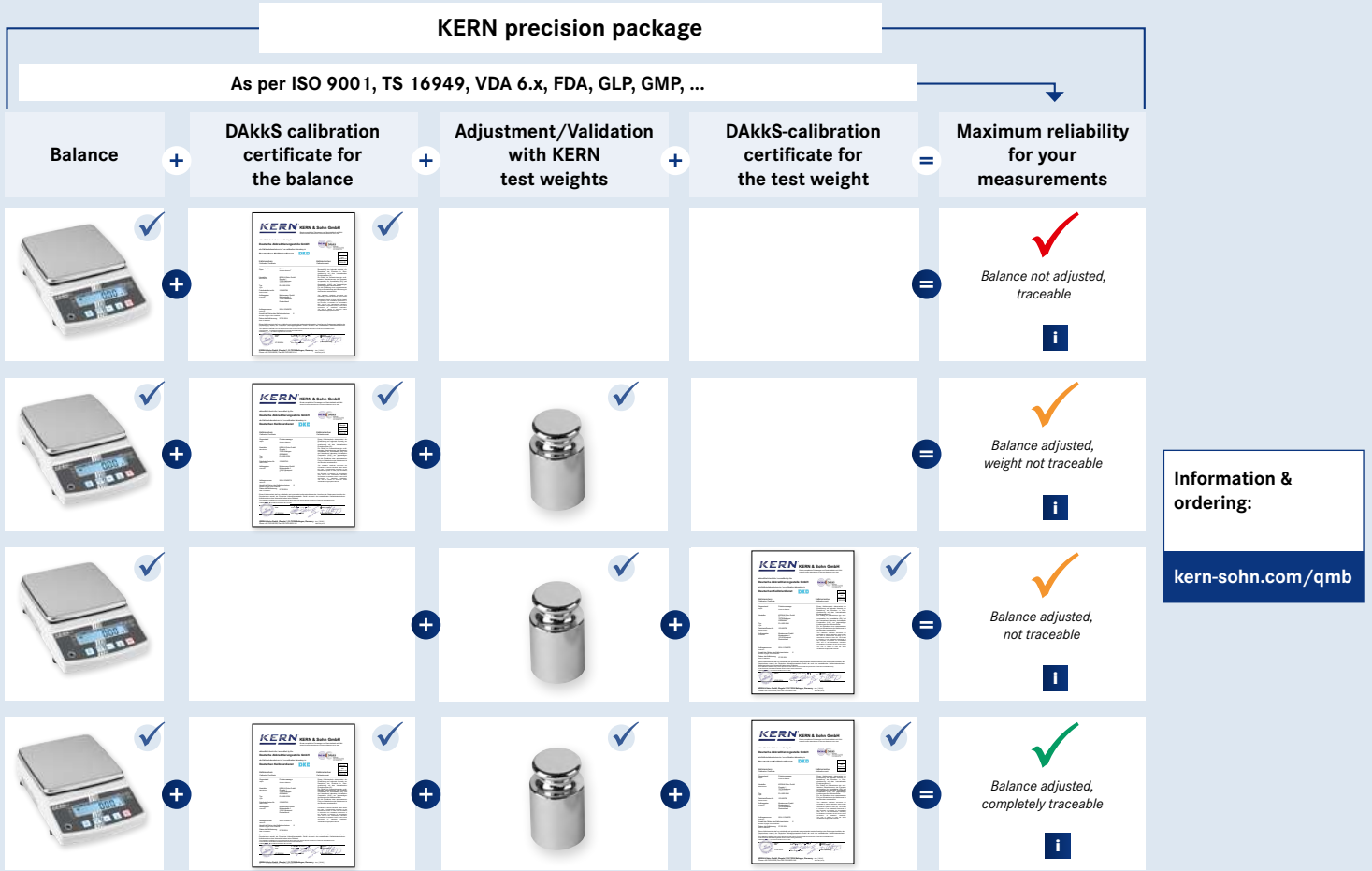
### Waldemar Fleitling

Product specialist Calibration service

Tel. +49 7433 9933-163  
Fax +49 7433 9933-29163  
[fleitling@kern-sohn.com](mailto:fleitling@kern-sohn.com)

## Balance & weight in the quality management system

Do you already use all the modules of the KERN precision package for maximum accuracy and reliability of your balance?



### The KERN calibration laboratory (D-K-19408-01-00)

KERN has a highly-automated DAkkS laboratory with accreditation to DIN EN ISO/IEC 17025 in the field of balances, test weights and force measurement. By using the most modern calibration technology with high-end calibration robots in fully air-conditioned laboratories, the measurement uncertainty and process times are reduced to a minimum, and also the quality of the calibration is increased.

As an accredited and certified calibration service provider with decades of experience, KERN offers you an extensive range of services, which will leave no demand unfulfilled. The accreditation applies to the extent specified in the appendix to the certificate D-K-19408-01-00.

### We offer the following services:

#### Waagen:

- ▶ DAkkS calibration up to 50 t
- ▶ Minimum sample weight (in use)
- ▶ Usage accuracy
- ▶ Adjustment at the location of installation
- ▶ Certificate of conformity
- ▶ Equipment qualification:
  - > Installation qualification (IQ)
  - > Function qualification (OQ)
  - > Performance qualification (PQ)
  - > Maintenance qualification (MQ)

#### Weights:

- ▶ DAkkS calibration up to 2.5 t (OIML classes E1 – M3)
- ▶ Volume determination for OIML class E1
- ▶ Measuring of sensitivity (magnetic characteristics)

#### Force:

- ▶ DAkkS calibration up to 5 kN

#### Factory calibration for:

- ▶ Force-measuring devices
  - ▶ Hardness
  - ▶ Layer thickness
  - ▶ Material thickness
  - ▶ Temperature of moisture analysers
- Authorised verification point for balances and weights (initial verification and re-verification)

Our commitment to satisfy our customers never stops. Perhaps this is one of the reasons why our roots can perhaps be traced so far back in history. **Discover the KERN route to success: fast - competent - reliable - versatile!**

## The order process

- 1 You will receive a **reminder** that your test equipment is due or you will generate a quotation for new or existing test equipment
- 2 Submission or collection of your test equipment
- 3 Initial inspection of your goods, to check that they are suitable for calibration, and are complete, etc.
- 4 You will get a detailed order confirmation
- 5 Our experts will carry out initial calibration
- 6 Checked for conformity with required tolerances and if required, any necessary actions which arise from this are carried out
- 7 Before these actions are carried out, we will contact you (in so far as no individual processing has been agreed with you beforehand)
- 8 After your approval the necessary actions will be implemented and the calibration will be completed
- 9 After that your test equipment will be returned without delay, together with the appropriate calibration certificates
- 10 We will monitor your recalibration periods and will send you, free of charge, a reminder about your next calibration

## Our service

### ► Reminder service

The continuous cyclic recalibration of your checking equipment is an integral part of the reliable management of test equipment. You can depend on us to support you, and we will remind you in good time, free of charge, when the next recalibration is due. In addition, you have the option of managing your test equipment yourself online (cf. 1, 10).

### ► Quote generator

You will be impressed by our price-to-performance ratio. Request a non-binding quotation or create it yourself to suit your specifications at [www.kern-lab.com](http://www.kern-lab.com) (cf. 1)

### ► Collection service

We will be pleased to arrange for our shipping company to pick up the goods from your premises. Simply tell us the weight and dimensions of your package and leave the rest to us (cf. 2)

### ► Repair and reconditioning of balances and weights

KERN will get your weights back up to standard, regardless of the manufacturer. Whether it is adjustment, marking, sand blasting or lacquering - the aim here is compliance and long-term stability. Any repairs of balances and instruments which may be necessary can be carried out quickly and easily (cf. 5, 6)

### ► Individual processing

In order to avoid delays with future orders, we would be pleased to incorporate your individual requirements for future processing of such calibration results. Even for smaller issues such as the printing of calibration certificates (stapling, punching, double-sided) we can work to your requirements (cf. 8).

### ► Express service and dispatch

If you need a particularly fast service, you can use your DAkkS express service. You will receive your test equipment after just 2 days (cf. 9).

## www.kern-lab.com – the central portal for everything you need to know about the extensive KERN calibration services

On our website you will always find the latest news and useful information about testing and measuring devices, calibration, legal metrology and expansions to our range of services. You will also find numerous online services on the website.

### Database supported management of test equipment

Information on your test equipment which has been calibrated by us is stored in our database. In this way it is possible to make trend calculations. You will therefore get an overview of the long-term stability and trend behaviour of your test equipment and the necessary recalibration period can easily be determined and specified.

### Paperless documentation

So that there is no administrative effort, we can handle all calibration documentation in a paperless process. From quotation, through to order confirmation, delivery note and invoice right up to calibration certificate, you will receive all documents by e-mail or you can retrieve them online. Would you prefer to receive your certificate or your invoice, for example, in paper form? Of course this is not a problem either. We will send you everything you require by post.

### Calibration certificate download

Using our download service you can easily download your calibration certificates as soon as the calibration work is complete and you will have access to them at any time in the future. Simply create your user account on [www.kern-lab.com](http://www.kern-lab.com) and you will never need to look for your certificates again.



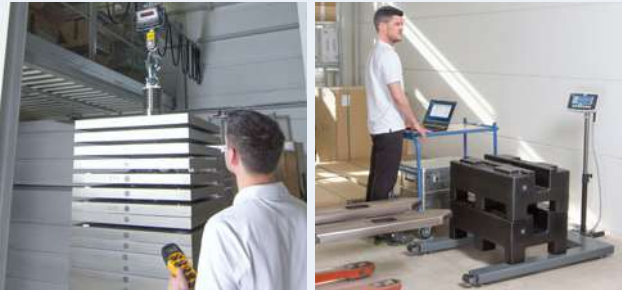
## DAkkS Calibration of balances

Any balance will only give correct results if it is checked regularly, i.e. calibrated correctly and adjusted when required. A balance is only a reliable measuring and checking tool if it is calibrated and this calibration is documented. The issued DAkkS calibration certificates are proof of the metrological traceability to national and international standards, as required by the DIN EN ISO 9000 and DIN EN ISO/IEC 17025 standards, amongst others. KERN recommends a recalibration period of one year. The standard does not give a defined recalibration period. KERN recommends that, with intensive (daily) use, you recalibrate your balance every 6 months and with normal (weekly) use, every 12 months.

### THE ADVANTAGES OF USING THE KERN IN-HOUSE CALIBRATION:



- + **Short calibration time:** Test time in the laboratory is only four working days
- + **Competence:** Calibration laboratory, which complies with the highest standards in the area of metrology
- + **Independent management** of the recalibration calendar for your individual measuring instrument is possible
- + **Cross-brand service:** Measuring devices from any manufacturer can be calibrated independently
- + **Repair:** Any necessary repairs can be carried out immediately, if you wish



#### a) Calibration at the KERN factory (you send your balance to us)

Recommended for new devices and for balances which can be affordably transported, as then there is no need for us to travel to carry out the calibration on-site. Repairs can be carried out at the same time, quickly and in full.

##### The process would be as follows:

- Day 1: Send your balance to the KERN calibration laboratory in Balingen.
- Day 2 to 3: Evaluation and calibration of your balance by our specialists.
- Day 4: After positive validation, your balance is returned.

### THE ADVANTAGES OF USING THE KERN ON-SITE CALIBRATION:



- + **Calibration on-site** at your premises in the field of use
- + **No risk of damage** during transportation
- + **Low downtime**
- + **Cross-brand servicing**, basic inspection and adjustment by a specialist
- + You tell us **when you would like us to come**
- + **Device training** for qualified users



#### b) KERN on-site calibration (we visit you)

In Germany, KERN has a close-knit network of KERN DAkkS calibration laboratory employees, who can carry out on-site calibration of balances up to 50 tonnes.

This on-site testing service is metrologically recommended, as your balance is in its field of use and can be calibrated without any possible transportation problems.

Lower downtime and personal contact with our expert are the major benefits of this service.

Preparatory maintenance work by agreement. Prices for on-site calibration on request.

You tell us when you would like us to come, giving us details of the balances to be tested. Our on-site DAkkS calibration team will then get in touch with you immediately and will discuss the process with you at your premises – it's straight forward and professional.

**This KERN calibration service is also independent of the brand.**

**KERN & Sohn GmbH**  
 Älteste europäische Feinwaagen und Gewichtesfabrik seit 1844  
 Oldest European Manufacturer of Precision Balances since 1844

akkreditiert durch die / accredited by the  
**Deutsche Akkreditierungsstelle GmbH**  
 als Kalibrierlaboratorium im / as calibration laboratory in  
**Deutschen Kalibrierdienst DKD**

Kalibrierschein  
 Calibration Certificate

Gegenstand  
 Object: Präzisionswaage  
 Precision Balance

Hersteller  
 Manufacturer: KERN & Sohn GmbH  
 Ziegellei 1  
 72336 Balingen  
 GERMANY

Typ  
 Type: PLJ 600-3CM

Fabrikate/Serien-Nr.  
 Serial number: 123456789

Hersteller  
 Manufacturer: Mustermann GmbH

Sample  
 D-K-  
 19408-01-00  
 2014-05

**Messergebnisse / Measurement results**

1. Wiederholbarkeit / Repeatability

Messung Measuring	Prüflast Load	Waagenanzeige Indication
No. 1	500 g	499,999 g
No. 2	500 g	499,999 g
No. 3	500 g	500,000 g
No. 4	500 g	500,000 g
No. 5	500 g	500,000 g

Standardabweichung: s = 0,0006 g  
 Standard deviation:

2. Richtigkeit / Linearity

Prüflast Load	Waagenanzeige Indication
100 g	100,000 g
200 g	200,000 g
300 g	300,001 g
500 g	500,000 g
600 g	600,001 g

3. Außermittige Belastung / Eccentricity

Position Position	Prüflast Load	Waagenanzeige Indication
No. 1	500 g	500,000 g
No. 2	500 g	499,999 g
No. 3	500 g	500,001 g
No. 4	500 g	500,001 g
No. 5	500 g	500,001 g

**Messunsicherheit U / Measuring uncertainty U**

Last Load	Abweichung Error	Erweiterungs- faktor k Coverage factor	Unsicherheit Uncertainty	relative Unsicherheit Rel. uncertainty
100 g	0,000 g	2,38	0,0016 g	0,00154 %
200 g	0,000 g	2,32	0,0016 g	0,00078 %
300 g	0,001 g	2,24	0,0017 g	0,00053 %
500 g	0,000 g	2,12	0,0018 g	0,00036 %
600 g	0,001 g	2,08	0,0020 g	0,00032 %

Darstellung im Diagramm / Representation as chart

Nettobelastung / Net-Load in g

**Verwendungsgenauigkeit G / Usage accuracy G**

Diagramm der Verwendungsgenauigkeit / Graph of usage accuracy:

$$G = 0,0013 \text{ g} + 8,72 \cdot 10^{-6} \cdot m_w$$

Verwendungsgenauigkeit / Usage accuracy in g

Last / Load in g

$m_w$  = Nettoanzeige bei zunehmender Belastung  
 net display with increasing load

rel. Meßunsicherheit

Nettobelastung

Mindesteinwaage / Minimum weight of sample

—■— G Prozessgenauigkeit / Process accuracy  
 —○— U Messunsicherheit / Uncertainty

DAkkS calibration certificate for balances (extract)

- 1 Official document
- 2 Item to be calibrated
- 3 Traceability, see page 225

- 4 Identification/Applicant
- 5 Metrological component
- 6 Uncertainty of measurement, see page 225

- 7 Application accuracy, see page 223
- 8 Minimum weight of sample (additional price)

To get reliable weighing results you need to have calibrated balances. KERN offers you an extensive calibration service for your balances – you have the choice:

**Recalibration**

- The recalibration schedule depends on the frequency of use, the conditions of use and the safety requirements.
- We would recommend that you recalibrate your balances every 6 months if they are used intensively, and every 12 months with normal use.
- The KERN calibration service is independent of the brand.



Initial calibration and recalibration of balance at the KERN factory	KERN	Price excl. of VAT ex works €
<b>Weighing capacity</b>		
<b>Analytical balances</b>		
[Max] ≤ 5 kg	963-101	138,-
[Max] > 5 kg	963-102	176,-
<b>Precision balances/Industrial scales</b>		
[Max] ≤ 5 kg	963-127	72,-
[Max] > 5 kg – 50 kg	963-128	88,-
[Max] > 50 kg – 350 kg	963-129	105,-
[Max] > 350 kg – 1500 kg	963-130	165,-
[Max] > 1500 kg – 2900 kg <sup>1)</sup>	963-131	220,-
[Max] > 2900 kg – 6000 kg <sup>1)</sup>	963-132	440,-
[Max] > 6000 kg – 12000 kg <sup>1)</sup>	963-133	500,-
<b>Hanging scales/Crane scales</b>		
[Max] ≤ 5 kg	963-127H	72,-
[Max] > 5 kg – 50 kg	963-128H	88,-
[Max] > 50 kg – 350 kg	963-129H	105,-
[Max] > 350 kg – 1500 kg	963-130H	165,-
[Max] > 1500 kg – 2900 kg	963-131H	250,-
[Max] > 2900 kg – 6000 kg	963-132H	500,-
[Max] > 6000 kg – 12000 kg <sup>3)</sup>	963-133H	700,-
<b>Preparation for recalibration</b> (cleaning, adjustment, function test)	969-003R	20,-
<b>Additional services</b>		
<b>Minimum weight of sample (for details see internet)</b>	969-103	10,-
Additional measurement points (as part of the) weighing test	963-140	5,-/ measurement point
Additional measurement points (as part of the) repeatability testing	963-140	5,-/ each further m.p.
DAkkS Express service with delivery time 48 hours (only on initial purchase, details see p. 202)	962-116	50,-/ scale
Express shipping: Express supplement for guaranteed delivery on the next working day (if ready for shipment before 12:00 noon)	in GER only	40,-/ parcel

<sup>1)</sup> Floor scales & axle load scales only (Price per weighing panel). Please ask for further details.  
<sup>2)</sup> On request  
<sup>3)</sup> Processing time 4 working days  
<sup>4)</sup> Processing time 15 working days

## Minimum weight of sample (in use)

**What is the lightest item you can weigh on your balance, while still achieving accurate and reliable weighing results? What exactly is the limit?**

The KERN minimum sample weight protocol accounts for the established minimum sample weight of your balance and its location of installation and use with the relative measuring uncertainty. With various safety coefficients and required weighing accuracy (process accuracy), depending on standard or quality-related requirements on the balance being used.

The higher the selected safety coefficient, the higher the safety when using the balance in a particular process. Typical perturbations when using the balance e.g. small fluctuations in temperature are taken into account. In easily predictable conditions in a professional environment of use, KERN recommends a safety coefficient of 3. For critical processes, a correspondingly higher factor should be selected. The minimum sample weight protocol contains a diagram as well as a table, from which you can ascertain the minimum sample weight for your balance, depending on the process.

## Adjustment at the location of installation

### Why?

Adjustment at the location of installation is necessary, as the measuring results of balances depend on the local gravitational force (gravitational acceleration) and therefore depend on the location of use. KERN can carry this out just before shipping at the factor, individually to suit the location of installation.

### What are the advantages of carrying out adjustment at the location of installation?

- The balance gives reliable measurement results at the location of installation.
- No time-consuming on-site adjustment necessary.
- You do not need a Service Engineer or any additional weights.
- The balance is ready for immediate use.

### Pricing table for adjustment at the location of installation

Weighing capacity	KERN	Price excl. of VAT ex works €
[Max] ≤ 5 kg	961-247	<b>36,-</b>
[Max] > 5 - 50 kg	961-248	<b>44,-</b>
[Max] > 50 - 350 kg	961-249	<b>52,-</b>
[Max] > 350 - 1500 kg	961-250	<b>83,-</b>
[Max] > 1500 - 2900 kg	961-251	<b>110,-</b>
[Max] > 2900 - 6000 kg	961-252	<b>220,-</b>
[Max] > 6000 - 12000 kg	961-253	<b>250,-</b>

For adjustment to the location of installation you need the value for gravitational acceleration at the location of installation, which KERN can calculate using the point of use. The procedure is suitable for balances with a resolution of <60,000 d. For higher resolutions we recommend a balance with an internal adjusting weight or adjustment with a calibrated adjusting weight at the location of installation.

## Certificate of conformity

With a certificate of conformity you get a statement about whether the balance meets your defined requirements.

In conjunction with a DAkkS calibration certificate it serves as documented proof that the balance fulfils the required process demands. When doing this the process owner for the balance can select from different temperature specifications – depending on its individual requirements:

Conformity evaluation on the basis of the:	KERN		Price excl. of VAT ex works €
Usage accuracy*	relative	969-511	on request
	absolute	969-512	
Calibration results*	relative	969-513	on request
	absolute	969-514	
Measurements as manufacturer or customer specification	Foreign device Customer specifications KERN devices	969-515	on request
		969-516	
		969-517	

relative = % / absolute = g

\*as attachment to the DAkkS calibration certificate (Details see [www.kern-lab.com](http://www.kern-lab.com))

### Example for absolute customer tolerance (absolute) (Item no. 969-511):

No.	Tare	Load	Display	Deviation	Uncertainty	Customer tolerance	Conformity <sup>1)</sup>
1	0 g	500 g	500,00 g	0,00 g	± 0,013 g	± 0,05 g	<input checked="" type="checkbox"/>
2	0 g	1000 g	1000,00 g	0,00 g	± 0,015 g	± 0,05 g	<input checked="" type="checkbox"/>
3	0 g	1500 g	1500,01 g	0,01 g	± 0,017 g	± 0,05 g	<input checked="" type="checkbox"/>
4	0 g	2000 g	2000,01 g	0,01 g	± 0,020 g	± 0,10 g	<input checked="" type="checkbox"/>
5	0 g	3000 g	3000,02 g	0,02 g	± 0,022 g	± 0,10 g	<input checked="" type="checkbox"/>

1) Evaluation criteria: |[Deviation]| + [extended measuring uncertainty] ≤ [tolerance]

## Documented quality of your balances in the log book

Consistently high product quality requires the use of measuring and test equipment that provides comprehensible, consistent and reproducible results. Hence, quality management systems require that measuring and test equipment produces a detailed traceable description and documentation of calibration results and conformity statements. Work not documented is work not done.

Equipment qualification is documentary evidence that a equipment is suitable for the intended purpose and is working faultlessly. A balance log book is used to record all activities and results required for the qualification and monitoring of balances during routine operation. This includes the installation and commissioning of the balances, routine tests, maintenance as well as the recording of special events (failures, repairs, change of location).

The structure of the balance log book is based on the qualification process of the balance. The requirements for the qualification system such as DIN EN ISO 9001, DIN EN ISO/IEC 17025, GLP/GMP, VDA must be taken into account. The log book supports the user in his/her daily work with the balance and is meant to serve as necessary evidence during inspections and audits. The responsibility for maintaining the log book and its appropriate use is to be borne by the user.

### Our proposal: Count on our support!

KERN offers this qualification concept throughout. Our validation services are carried out on the spot by technicians of our calibration laboratory and comprise among other things: installation, measurement test inclusive DAkks calibration certificate as well as records in your qualification log book.

We give you advice about the options of device qualification, as required and will be happy to set up an appointment for qualification at the place of installation. We offer individual calibration and maintenance agreements for the periodically required requalification.

Further information can be found at [www.kern-lab.com](http://www.kern-lab.com)



### Installation qualification (IQ)

All steps to be taken for the installation and commissioning of the equipment are described in detail in the installation qualification. These include among others:

- checking for completeness of delivery and assurance that the delivered equipment meets the required specifications
- a description of the ambient conditions at the place of installation
- proper installation and assurance that the equipment is ready for operation after installation
- documentation of equipment configuration and equipment settings
- Recording and installation of connected peripherals units



### Function qualification (OQ)

The operational qualification describes the metrological test performed for the balance at the place of installation. In the course of this all parameters that define the efficiency of a measurement will be checked. Functional qualification is carried out with the help of a standard operating procedure (SOP) and recorded in a calibration certificate. The OQ must be carried out by trained staff with the help of qualified aids (such as certified weights that are traceable to an approved standard). Briefing / training of users must be assured and recorded in the OQ.



### Performance qualification (PQ)

The PQ represents documented evidence that the balance or weighing system functions in the selected application as intended. This will be assured by a qualification test of the equipment under real conditions with respect to its surroundings and the problem definition (such as traceable data transmission). If the balance or weighing system is "merely" to be used for weighing it will not be necessary to carry out a PQ as the ability to function has already been proven during the metrological test (OQ).



### Maintenance qualification (MQ)

The periodical maintenance, cleaning work and complete metrological test of the balance/weighing system is documented in the MQ by a trained authorised engineer. The results are documented on a DAkks calibration certificate. Maintenance is carried out with the help of a maintenance schedule.



If you are interested in a qualification or training for equipment qualification, please feel free to contact us at **+49 7433 9933-136**



**KERN & Sohn GmbH**  
Älteste europäische Feinwaagen und Gewichtfabrik seit 1844  
 Oldest European Manufacturer of Precision Balances since 1844

akkreditiert durch die / accredited by the  
**Deutsche Akkreditierungsstelle GmbH**  
als Kalibrierlaboratorium im / as calibration laboratory in the  
**Deutschen Kalibrierdienst DKD**

G1-123  
D-K-  
 19408-01-00  
 2014-05

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**Kalibrierschein**  
Calibration certificate

**Gegenstand**  
Object

**Hersteller**  
Manufacturer

**Typ**  
Type

**Fabrikate/Serien-Nr.**  
Serial number

**Auftraggeber**  
Customer

**Auftragsnummer**  
2014-123456789

**Kalibrierverfahren:**  
Calibration method

**Umgebungsbedingungen:**  
Ambient conditions

**Referenzgewichte:**  
Standard weights

**Material / angenommene Dichte:**  
Material / assumed density

Nominalwert	Dichte	Unsicherheit	Material	Form
nominal value	density	uncertainty	material	shape
1 mg - 500 mg	7950 kg/m <sup>3</sup>	140 kg/m <sup>3</sup>	Edelstahl Stainless steel	Draht Wire
1 g - 1 kg	8000 kg/m <sup>3</sup>	100 kg/m <sup>3</sup>	Edelstahl Stainless steel	Knopf Cylindrical form

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**Messergebnisse:**  
Measurement results:

Nennwert	Kennzeichnung	konventioneller Wägewert	Unsicherheit k=2	Fehlergrenze	Klasse*
nominal value	marking	conventional mass	uncertainty	max. perm. error	class*
1 mg		1 mg + 0.0010 mg	0.0020 mg	± 0.0060 mg	E2 ✓
2 mg		2 mg + 0.0005 mg	0.0020 mg	± 0.0060 mg	E2 ✓
2 mg	*	2 mg + 0.0016 mg	0.0020 mg	± 0.0060 mg	E2 ✓
5 mg		5 mg + 0.0010 mg	0.0020 mg	± 0.0060 mg	E2 ✓
10 mg		10 mg + 0.0009 mg	0.0020 mg	± 0.0080 mg	E2 ✓
20 mg		20 mg - 0.001 mg	0.003 mg	± 0.010 mg	E2 ✓
20 mg	*	20 mg + 0.001 mg	0.003 mg	± 0.010 mg	E2 ✓
50 mg		50 mg + 0.001 mg	0.004 mg	± 0.012 mg	E2 ✓
100 mg		100 mg + 0.001 mg	0.005 mg	± 0.016 mg	E2 ✓
200 mg		200 mg + 0.002 mg	0.006 mg	± 0.020 mg	E2 ✓
200 mg	*	200 mg + 0.003 mg	0.006 mg	± 0.020 mg	E2 ✓
500 mg		500 mg + 0.005 mg	0.006 mg	± 0.025 mg	E2 ✓
1 g		1 g + 0.002 mg	0.010 mg	± 0.030 mg	E2 ✓
2 g		2 g + 0.002 mg	0.013 mg	± 0.040 mg	E2 ✓
2 g	*	2 g + 0.002 mg	0.013 mg	± 0.040 mg	E2 ✓
5 g		5 g + 0.010 mg	0.016 mg	± 0.050 mg	E2 ✓
10 g		10 g - 0.007 mg	0.020 mg	± 0.060 mg	E2 ✓
20 g		20 g + 0.005 mg	0.026 mg	± 0.080 mg	E2 ✓
20 g	*	20 g + 0.015 mg	0.026 mg	± 0.080 mg	E2 ✓
50 g		50 g + 0.02 mg	0.03 mg	± 0.10 mg	E2 ✓
100 g		100 g + 0.01 mg	0.05 mg	± 0.16 mg	E2 ✓
200 g		200 g + 0.05 mg	0.10 mg	± 0.30 mg	E2 ✓
200 g	*	200 g - 0.00 mg	0.10 mg	± 0.30 mg	E2 ✓
500 g		500 g + 0.10 mg	0.26 mg	± 0.80 mg	E2 ✓
1 kg		1 kg + 0.1 mg	0.5 mg	± 1.6 mg	E2 ✓

**Kalibrierverfahren:**  
Die Kalibrierung erfolgte durch Vergleich mit den Bezugsnormale des Kalibrierlaboratoriums nach der Substitutionsmethode mit Auftriebskorrektur.  
The calibration ensued through comparison with the reference standards of the calibration laboratory using the substitution method with air buoyancy correction.

**Umgebungsbedingungen:**  
Die Kalibrierung wurde bei folgenden Umgebungsbedingungen ausgeführt:  
The calibration was carried out under the following ambient conditions:

	von	bis	Unsicherheit
	from	to	uncertainty
Temperatur (°C) temperature	22,9	24,1	0,1
rel. Luftfeuchte (%) relative humidity	48,5	53,4	2,0
Luftdruck (hPa) air pressure	942,5	948,5	0,3

**Referenzgewichte:**  
G1-123-D-K-19408-01-00-2014-05

**Material / angenommene Dichte:**  
Material / assumed density

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**Messergebnisse:**  
Measurement results:

Nennwert	Kennzeichnung	konventioneller Wägewert	Unsicherheit k=2	Fehlergrenze	Klasse*
nominal value	marking	conventional mass	uncertainty	max. perm. error	class*
1 mg		1 mg + 0.0010 mg	0.0020 mg	± 0.0060 mg	E2 ✓
2 mg		2 mg + 0.0005 mg	0.0020 mg	± 0.0060 mg	E2 ✓
2 mg	*	2 mg + 0.0016 mg	0.0020 mg	± 0.0060 mg	E2 ✓
5 mg		5 mg + 0.0010 mg	0.0020 mg	± 0.0060 mg	E2 ✓
10 mg		10 mg + 0.0009 mg	0.0020 mg	± 0.0080 mg	E2 ✓
20 mg		20 mg - 0.001 mg	0.003 mg	± 0.010 mg	E2 ✓
20 mg	*	20 mg + 0.001 mg	0.003 mg	± 0.010 mg	E2 ✓
50 mg		50 mg + 0.001 mg	0.004 mg	± 0.012 mg	E2 ✓
100 mg		100 mg + 0.001 mg	0.005 mg	± 0.016 mg	E2 ✓
200 mg		200 mg + 0.002 mg	0.006 mg	± 0.020 mg	E2 ✓
200 mg	*	200 mg + 0.003 mg	0.006 mg	± 0.020 mg	E2 ✓
500 mg		500 mg + 0.005 mg	0.006 mg	± 0.025 mg	E2 ✓
1 g		1 g + 0.002 mg	0.010 mg	± 0.030 mg	E2 ✓
2 g		2 g + 0.002 mg	0.013 mg	± 0.040 mg	E2 ✓
2 g	*	2 g + 0.002 mg	0.013 mg	± 0.040 mg	E2 ✓
5 g		5 g + 0.010 mg	0.016 mg	± 0.050 mg	E2 ✓
10 g		10 g - 0.007 mg	0.020 mg	± 0.060 mg	E2 ✓
20 g		20 g + 0.005 mg	0.026 mg	± 0.080 mg	E2 ✓
20 g	*	20 g + 0.015 mg	0.026 mg	± 0.080 mg	E2 ✓
50 g		50 g + 0.02 mg	0.03 mg	± 0.10 mg	E2 ✓
100 g		100 g + 0.01 mg	0.05 mg	± 0.16 mg	E2 ✓
200 g		200 g + 0.05 mg	0.10 mg	± 0.30 mg	E2 ✓
200 g	*	200 g - 0.00 mg	0.10 mg	± 0.30 mg	E2 ✓
500 g		500 g + 0.10 mg	0.26 mg	± 0.80 mg	E2 ✓
1 kg		1 kg + 0.1 mg	0.5 mg	± 1.6 mg	E2 ✓

**Kalibrierverfahren:**  
Die Kalibrierung erfolgte durch Vergleich mit den Bezugsnormale des Kalibrierlaboratoriums nach der Substitutionsmethode mit Auftriebskorrektur.  
The calibration ensued through comparison with the reference standards of the calibration laboratory using the substitution method with air buoyancy correction.

**Umgebungsbedingungen:**  
Die Kalibrierung wurde bei folgenden Umgebungsbedingungen ausgeführt:  
The calibration was carried out under the following ambient conditions:

	von	bis	Unsicherheit
	from	to	uncertainty
Temperatur (°C) temperature	22,9	24,1	0,1
rel. Luftfeuchte (%) relative humidity	48,5	53,4	2,0
Luftdruck (hPa) air pressure	942,5	948,5	0,3

**Referenzgewichte:**  
G1-123-D-K-19408-01-00-2014-05

**Material / angenommene Dichte:**  
Material / assumed density

## Traceable KERN test weights –

### Calibration of test weights

Calibrated measuring equipment requires calibrated checking equipment. For balances, these are calibrated test weights, also called “standard weights”.

### KERN will calibrate your test weights

- In all classes with permissible error limits E1–M3 according to OIML R111:2004 (for tolerance tables, see page 188), in sizes 1 mg to 2500 kg.
- With free nominal value
- Newton (N)
- Independent of design (special designs)

### The advantages of using the KERN in-house calibration

#### You send your test weights to us.

- Excellent price performance ratio
- The quickest processing time
  - DAkkS standard service: 4 working days
  - DAkkS express service: 48 hrs (new weights)
- The most modern calibration methods with robot controlled comparators allow the most accurate calibration results and fastest throughput time
- KERN DAkkS calibration certificates are internationally recognised
- A calibration service which is independent of the brand
- KERN also reconditions existing customer weights (e.g. cleaning or readjustment)
- On request, we can also provide a pick-up and collection service with our parcel service

### The advantages of using the KERN on-site calibration

#### We visit you.

We would be pleased to visit you within Germany and carry out the calibration of your reference standards to OIML classes M1–M3, 10 kg–2500 kg with permissible error limits, using our mobile MACOS system. Minimized downtime of your checking equipment and direct contact with our expert are the major benefits of this service. Price on request.

### Recalibration

- The recalibration schedule depends on the frequency of use, the conditions of use and the safety requirements
- In terms of standardisation, no particular recalibration interval is specified
- We would recommend that you recalibrate your test weights every six months if they are used intensively, and every 12 months with normal use
- We would be pleased to monitor your recalibration schedule

### DAkkS calibration certificate for test weights (extract)

For more details on our calibration service and other useful information, please see the internet on [www.kern-lab.com](http://www.kern-lab.com)

- 1 Official document
- 2 Item to be calibrated
- 3 Traceability, see page 225
- 4 Identification/Applicant
- 5 Environmental conditions
- 6 Metrological component
- 7 Conventional mass
- 8 Uncertainty of measurement, see page 225



Recalibration price of test weights (DAkkS calibration)

Class acc. →	E1 with volume determination		E1 without volume determination		E2		F1/F2 * F2 only		M1/M2/M3	
	Nominal value ↓	Price € excl. of VAT ex works	KERN	Price € excl. of VAT ex works	KERN	Price € excl. of VAT ex works	KERN	Price € excl. of VAT ex works	KERN	Price € excl. of VAT ex works
1 mg	-	-	962-251R	52,-	962-351R	26,-	962-451R	18,-	962-651R	15,-
2 mg	-	-	962-252R	52,-	962-352R	26,-	962-452R	18,-	962-652R	15,-
5 mg	-	-	962-253R	52,-	962-353R	26,-	962-453R	18,-	962-653R	15,-
10 mg	-	-	962-254R	52,-	962-354R	26,-	962-454R	18,-	962-654R	15,-
20 mg	-	-	962-255R	52,-	962-355R	26,-	962-455R	18,-	962-655R	15,-
50 mg	-	-	962-256R	52,-	962-356R	26,-	962-456R	18,-	962-656R	15,-
100 mg	-	-	962-257R	52,-	962-357R	26,-	962-457R	18,-	962-657R	15,-
200 mg	-	-	962-258R	52,-	962-358R	26,-	962-458R	18,-	962-658R	15,-
500 mg	-	-	962-259R	52,-	962-359R	26,-	962-459R	18,-	962-659R	15,-
1 g	963-231	193,-	962-231R	52,-	962-331R	26,-	962-431R	18,-	962-631R	15,-
2 g	963-232	193,-	962-232R	52,-	962-332R	26,-	962-432R	18,-	962-632R	15,-
5 g	963-233	193,-	962-233R	52,-	962-333R	26,-	962-433R	18,-	962-633R	15,-
10 g	963-234	193,-	962-234R	52,-	962-334R	26,-	962-434R	18,-	962-634R	15,-
20 g	963-235	193,-	962-235R	52,-	962-335R	26,-	962-435R	18,-	962-635R	15,-
50 g	963-236	193,-	962-236R	52,-	962-336R	26,-	962-436R	18,-	962-636R	15,-
100 g	963-237	193,-	962-237R	52,-	962-337R	33,-	962-437R	20,-	962-637R	16,-
200 g	963-238	193,-	962-238R	52,-	962-338R	33,-	962-438R	20,-	962-638R	16,-
500 g	963-239	193,-	962-239R	52,-	962-339R	33,-	962-439R	20,-	962-639R	16,-
1 kg	963-241	193,-	962-241R	52,-	962-341R	33,-	962-441R	20,-	962-641R	16,-
2 kg	963-242	465,-	962-242R	64,-	962-342R	41,-	962-442R	25,-	962-642R	17,-
5 kg	963-243	465,-	962-243R	64,-	962-343R	41,-	962-443R	25,-	962-643R	17,-
10 kg	963-244	465,-	962-244R	64,-	962-344R	41,-	962-444R	25,-	962-644R	17,-
20 kg	963-245	1160,-	962-245R	590,-	962-345R	52,-	962-445R	28,-	962-645R	22,-
50 kg	963-246	1360,-	962-246R	660,-	962-346R	64,-	962-446R	39,-	962-646R	24,-
100 kg	-	-	-	-	-	-	962-591R*	116,-	962-691R	63,-
200 kg	-	-	-	-	-	-	962-592R*	116,-	962-692R	63,-
500 kg	-	-	-	-	-	-	962-593R*	116,-	962-693R	63,-
1000 kg	-	-	-	-	-	-	-	-	962-694R	136,-
2000 kg	-	-	-	-	-	-	-	-	962-695R	250,-
1 mg-500 mg	-	-	962-250R	350,-	962-350R	190,-	962-450R	100,-	962-650R	63,-
1 mg-50 g	963-201	1070,-	962-201R	560,-	962-301R	315,-	962-401R	167,-	962-601R	106,-
1 mg-100 g	963-202	1170,-	962-202R	580,-	962-302R	340,-	962-402R	178,-	962-602R	112,-
1 mg-200 g	963-203	1350,-	962-203R	630,-	962-303R	385,-	962-403R	199,-	962-603R	125,-
1 mg-500 g	963-204	1440,-	962-204R	660,-	962-304R	410,-	962-404R	210,-	962-604R	131,-
1 mg-1 kg	963-205	1530,-	962-205R	700,-	962-305R	435,-	962-405R	220,-	962-605R	137,-
1 mg-2 kg	963-206	2000,-	962-206R	750,-	962-306R	495,-	962-406R	250,-	962-606R	152,-
1 mg-5 kg	963-207	2450,-	962-207R	770,-	962-307R	530,-	962-407R	265,-	962-607R	160,-
1 mg-10 kg	963-208	2900,-	962-208R	800,-	962-308R	560,-	962-408R	285,-	962-608R	167,-
1 g-50 g	963-215	770,-	962-215R	245,-	962-315R	127,-	962-415R	67,-	962-615R	42,-
1 g-100 g	963-216	860,-	962-216R	270,-	962-316R	150,-	962-416R	77,-	962-616R	49,-
1 g-200 g	963-217	1040,-	962-217R	320,-	962-317R	196,-	962-417R	98,-	962-617R	61,-
1 g-500 g	963-218	1130,-	962-218R	350,-	962-318R	220,-	962-418R	109,-	962-618R	68,-
1 g-1 kg	963-219	1230,-	962-219R	375,-	962-319R	245,-	962-419R	119,-	962-619R	74,-
1 g-2 kg	963-220	1780,-	962-220R	425,-	962-320R	305,-	962-420R	151,-	962-620R	89,-
1 g-5 kg	963-221	2230,-	962-221R	450,-	962-321R	340,-	962-421R	166,-	962-621R	96,-
1 g-10 kg	963-222	2690,-	962-222R	485,-	962-322R	370,-	962-422R	182,-	962-622R	104,-

Additional costs for preparation, overhaul and adjustment before the calibration	KERN	Price excl. of VAT ex works €
<b>Preparation of weights (e.g. cleaning, etc.)</b>		
Single weight	969-001R	3,-
Weight set	969-002R	16,-
<b>Subsequent services are carried out after confirmation</b>		
Continued overhaul of weights (e.g. wet-cleaning, markings, repair, special packaging, adjustment E1 (DAkkS only), E2 ...)	969-005R	<b>T &amp; M basis</b>
Adjustment, per weight only available for weights with adjustment chamber (F1-M3)	969-010R	12,-
<b>Second calibration after adjustment or substitution, per weight</b>		
Class E1	969-210R	40,-
Class E1 incl. volume determination	969-211R	80,-
Class E2	969-310R	14,-
Class F1/F2	969-410R	14,-
Class M1-M3	969-610R	14,-
<b>Testing of magnetic properties according to OIML R 111:2004, per weight</b>	972-000	12,-
<b>Calibration of NON-OIML test weights, additional price per weight</b>	-	8,-

KERN DAkkS Express Service	
DAkkS standard service Class E2-M3	4 working days
DAkkS standard service Class E1, 1 mg-500 mg, and recalibration 1 g-10 kg with a known volume	10 working days
Class E1, ≥ 1 g, incl. volume determination (new weights)	15 working days



**DAkkS Express service in 48 hours** except for class E1

- Urgent order is received at KERN by 12:00 noon at the latest
- Ready for shipping at KERN within two working days, at 12:00 noon
- Return by standard parcel service or express shipping (Costs and processing time on request)
- Additional cost for DAkkS Express Service, for each KERN test weight KERN KERN 962-115 € 20,-
- For Express shipping, see page 214

Verification prices for test weights and (crane) scales

Class acc. → OIML R 111:2004	E2 with verification certificate		F1/F2 with verification certificate		M1 with verification certificate	
	Nominal value ↓ KERN	Price excl. of VAT ex works €	KERN	Price excl. of VAT ex works €	KERN	Price excl. of VAT ex works €
1 mg	952-351	44,-	952-451	38,-	952-651	26,-
2 mg	952-352	44,-	952-452	38,-	952-652	26,-
5 mg	952-353	44,-	952-453	38,-	952-653	26,-
10 mg	952-354	44,-	952-454	38,-	952-654	26,-
20 mg	952-355	44,-	952-455	38,-	952-655	26,-
50 mg	952-356	44,-	952-456	38,-	952-656	26,-
100 mg	952-357	44,-	952-457	38,-	952-657	26,-
200 mg	952-358	44,-	952-458	38,-	952-658	26,-
500 mg	952-359	44,-	952-459	38,-	952-659	26,-
1 g	952-331	44,-	952-431	38,-	952-631	26,-
2 g	952-332	44,-	952-432	38,-	952-632	26,-
5 g	952-333	44,-	952-433	38,-	952-633	26,-
10 g	952-334	44,-	952-434	38,-	952-634	26,-
20 g	952-335	44,-	952-435	38,-	952-635	26,-
50 g	952-336	44,-	952-436	38,-	952-636	26,-
100 g	952-337	50,-	952-437	38,-	952-637	26,-
200 g	952-338	50,-	952-438	44,-	952-638	26,-
500 g	952-339	50,-	952-439	44,-	952-639	26,-
1 kg	952-341	50,-	952-441	44,-	952-641	26,-
2 kg	952-342	56,-	952-442	46,-	952-642	28,-
5 kg	952-343	56,-	952-443	46,-	952-643	28,-
10 kg	952-344	56,-	952-444	46,-	952-644	35,-
20 kg	952-345	65,-	952-445	46,-	952-645	40,-
50 kg	952-346	74,-	952-446	55,-	952-646	41,-
1 mg-500 mg	952-350	220,-	952-450	116,-	952-650	73,-
1 mg-50 g	952-301	365,-	952-401	193,-	952-601	122,-
1 mg-100 g	952-302	395,-	952-402	205,-	952-602	129,-
1 mg-200 g	952-303	445,-	952-403	230,-	952-603	144,-
1 mg-500 g	952-304	475,-	952-404	240,-	952-604	151,-
1 mg-1 kg	952-305	500,-	952-405	255,-	952-605	158,-
1 mg-2 kg	952-306	570,-	952-406	285,-	952-606	175,-
1 mg-5 kg	952-307	620,-	952-407	310,-	952-607	185,-
1 mg-10 kg	952-308	650,-	952-408	330,-	952-608	193,-
1 g-50 g	952-315	146,-	952-415	84,-	952-615	55,-
1 g-100 g	952-316	173,-	952-416	89,-	952-616	59,-
1 g-200 g	952-317	225,-	952-417	113,-	952-617	70,-
1 g-500 g	952-318	260,-	952-418	125,-	952-618	78,-
1 g-1 kg	952-319	280,-	952-419	138,-	952-619	86,-
1 g-2 kg	952-320	350,-	952-420	174,-	952-620	102,-
1 g-5 kg	952-321	390,-	952-421	191,-	952-621	111,-
1 g-10 kg	952-322	430,-	952-422	210,-	952-622	120,-

KERN verification delivery time	
Standard verification service Class E2 - M1	6 working days

Additional costs for preparation, overhaul and adjustment before the verification	KERN	Price excl. of VAT ex works €
Preparation of weights (e.g. cleaning, etc.)		

Single weight	969-008R	3,-
Weight set	969-009R	16,-

Subsequent services are carried out after confirmation

Continued overhaul of weights (e.g. wet-cleaning, markings, repair, special packaging, adjustment E2 ...)	969-005R	T & M basis
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Adjustment, per weight only available for weights with adjustment chamber (F1/F2 - M1)	969-010R	12,-
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Verification after adjustment or substitution, per weight

Class E2	969-310R	14,-
Class F1/F2	969-410R	14,-
Class M1	969-610R	14,-

Verification prices for balances	Reverification	Price excl. of VAT ex works €
<b>Accuracy class I (precision balances) <sup>1)</sup></b>	<b>KERN</b>	
[Max] ≤ 5 kg <sup>1)</sup>	950-101R	198,-
[Max] > 5 kg <sup>1)</sup>	950-102R	255,-
<b>Accuracy class II (precision balances) <sup>1)</sup></b>		
[Max] ≤ 5 kg <sup>1)</sup>	950-116R	99,-
[Max] > 5 kg - 50 kg <sup>1)</sup>	950-117R	121,-
[Max] > 50 kg - 350 kg <sup>1)</sup>	950-118R	187,-
<b>Accuracy class III-IV <sup>1)</sup></b>		
Bench scales and industrial scales (excl. crane scales)		
[Max] ≤ 5 kg <sup>1)</sup>	950-127R	95,-
[Max] > 5 kg - 50 kg <sup>1)</sup>	950-128R	95,-
[Max] > 50 kg - 350 kg <sup>1)</sup>	950-129R	152,-
[Max] > 350 kg - 1500 kg <sup>1)</sup>	950-130R	220,-
[Max] > 1500 kg - 2900 kg <sup>1)</sup>	950-131R	310,-
[Max] > 2900 kg - 6000 kg <sup>1)</sup>	950-132R	475,-
Crane scales		
[Max] > 50 kg - 350 kg <sup>1)</sup>	950-129HR	165,-
[Max] > 350 kg - 1500 kg <sup>1)</sup>	950-130HR	275,-
[Max] > 1500 kg - 2900 kg <sup>1)</sup>	950-131HR	395,-
[Max] > 2900 kg - 6000 kg <sup>1)</sup>	950-132HR	600,-
[Max] > 6000 kg - 12000 kg <sup>1)</sup>	950-133HR	960,-

<sup>1)</sup> Processing time 4 working days, <sup>2)</sup> Processing time 15 working days, <sup>1)2)</sup> Preparation of reverification of balances, 969-006R, € 20,-

The force gauge

## Accredited calibration with DAkkS calibration certificate for force gauges

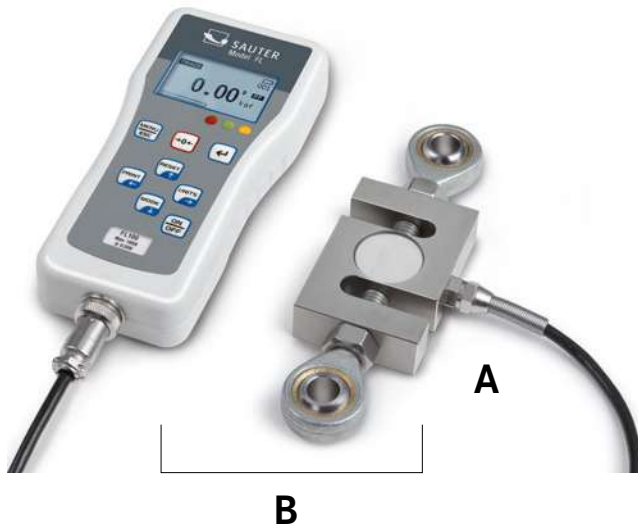
The KERN calibration laboratory is at your side when you need to calibrate DAkkS reliably.

From the transducer to the full measuring chain, we are happy to take care of traceable calibration of your test equipment for you. Our accreditation includes the calibration of tensile and pressure force up to 5 kN according to the standards DIN EN ISO 376 and DKD-R 3-3, each with the Newton (N) display unit for a complete measuring chain (situation A) or voltage ratio/transmission coefficient (mV/V, situation B).

Below you will find a comparison of which standard meets which criteria:

Comparison of DIN EN ISO 376 and DKD-R 3-3		
	ISO 376	DKD-R 3-3
<b>Standardization</b>	ISO standard (internationally standardized)	Standard of the DKD (Germany)
<b>Measuring equipment</b>	Force transducers and complete measuring chains	Force transducers and complete measuring chains
<b>Area of application</b>	Specifically force gauges for the testing of testing equipment	General force gauges
<b>Number of power stages</b>	8	5
<b>Classification/Assessment</b>	Classification in classes 00; 0,5; 1 and 2	None in standard
<b>Test sequences</b>	Fixed procedure	Sequences A, B, C, D possible Standard is sequence A B, C and D are reduced sequences, relevant previous knowledge is necessary
<b>Summary</b>	Higher-quality calibration, as 8 force levels are calibrated	High-quality calibration, reduced sequences with less effort possible

We can offer you a calibration solution for the following situations:



**Situation A:**  
Force transducer (mV/V)

**Situation B:**  
Complete force gauge (N), consisting of transducer, amplifier and display

You can find further information on this topic at: [www.kern-lab.com](http://www.kern-lab.com)

**KERN & Sohn GmbH**  
Akkreditiertes Kalibrierlabor seit 1954.  
Accredited calibration laboratory since 1954.

Ihr Partner für Kalibrierdienstleistungen, Prüfmittelmanagement und Beratung.  
Your partner for calibration services, test equipment management and support.

akkreditiert durch die / accredited by the  
**Deutsche Akkreditierungsstelle GmbH**  
als Kalibrierlaboratorium im / as calibration laboratory in the  
**Deutschen Kalibrierdienst DKD**

Sample  
Dok. 19058-01-00  
2017-05

**Kalibrierschein**  
Calibration certificate

Gegenstand / Objekt: Kraftmessgerät Kraftmessplatz  
Max 500 N, d= 0,1 N

Hersteller / Manufacturer: Sauter GmbH  
Zöglerstr. 1  
72236 Balingen  
Deutschland

Typ / Type: FH 500

Fabrikat-/Serien-Nr. / Serial number: ZH11110671

Auftraggeber: Mühlerrmann GmbH

**Kalibrierzeichen**  
Calibrator mark

Dieser Kalibrierschein dokumentiert die Rückführung auf nationale Normale zur Darstellung der Einheiten in Übereinstimmung mit dem Internationalen Einheitensystem (SI).  
Die DAkkS ist Unterzeichner der multilateralen Übereinkommen der European co-operation for Accreditation (EA) und der International Laboratory Accreditation Cooperation (ILAC) zur gegenseitigen Anerkennung der Kalibrierscheine.  
Für die Erhaltung einer angemessenen Frist zur Wiederholung der Kalibrierung ist der Benutzer zu informieren.

**Messwerte (Zugkraft) / Measurement results (tension force)**

Ausrichtung / Kraft / force	Ausgangsposition / initial position 0°		120°		240°	
	R1	R2	R3	R4	R5	R6
0 N	0,0 N	0,0 N	0,0 N	0,0 N	0,0 N	0,0 N
100,0 N	-59,8 N	-59,8 N	-59,8 N	-59,8 N	-59,8 N	-59,8 N
200,0 N	-199,6 N	-199,6 N	-199,6 N	-199,6 N	-199,6 N	-199,6 N
300,0 N	-299,4 N	-299,4 N	-299,4 N	-299,4 N	-299,4 N	-299,4 N
400,0 N	-399,2 N	-399,2 N	-399,2 N	-399,2 N	-399,2 N	-399,2 N
500,0 N	-499,0 N	-499,0 N	-499,0 N	-499,0 N	-499,0 N	-499,0 N
0 N	0,0 N	0,0 N	0,0 N	0,0 N	0,0 N	0,0 N

**Messergebnisse (Zugkraft) / Measured values (tension force)**

Aus den oben aufgeführten Messwerten ergeben sich die folgenden Messergebnisse:  
The following measurement results are calculated using the measured values above:

rel. Kalibrierabweichung: 0,000 %  
rel. Nullpunktabweichungen: 0,000 % (R1), 0,000 % (R2), 0,000 % (R3/R4), 0,000 % (R5/R6)

Kraft / force	arith. Mittelwert / average	rel. Wiederhol- präzision $\sigma^2$ / wiederholbarkeit	rel. Vergleichs- präzision $\sigma^2$ / reproducibility	rel. Unterbreitgenauigkeit $\sigma^2$ / systematic
100,0 N	-59,8 N	0,000 %	0,000 %	0,000 %
200,0 N	-199,6 N	0,000 %	0,000 %	0,000 %
300,0 N	-299,4 N	0,000 %	-0,033 %	-0,017 %
400,0 N	-399,2 N	0,000 %	-0,025 %	0,013 %
500,0 N	-499,0 N	0,000 %	0,000 %	0,000 %

**DAkkS Calibration certificate for force-measuring devices (except).**

## Prices for DAkkS calibration of force gauges and force transducers

Situation A: Force transducer (voltage ratio, in mV/V)* <sup>1,2</sup>					
ISO 376 (8 stages)			DKD-R 3-3 (5 stages, sequence A)		
KERN	Measuring range	Price € ex works excl. of VAT	KERN	Measuring range	Price € ex works excl. of VAT
<b>Tensile force:</b>					
963-161V (R)	≤ 500 N	181,-	963-161V (R)	≤ 500 N	168,-
963-162V (R)	≤ 2 kN	214,-	963-162V (R)	≤ 2 kN	198,-
963-163V (R)	≤ 5 kN	280,-	963-163V (R)	≤ 5 kN	258,-
<b>Compression force:</b>					
963-261V (R)	≤ 500 N	181,-	963-261V (R)	≤ 500 N	168,-
963-262V (R)	≤ 2 kN	214,-	963-262V (R)	≤ 2 kN	198,-
963-263V (R)	≤ 5 kN	280,-	963-263V (R)	≤ 5 kN	258,-
<b>Tensile and Compression force:</b>					
963-361V (R)	≤ 500 N	302,-	963-361V (R)	≤ 500 N	278,-
963-362V (R)	≤ 2 kN	363,-	963-362V (R)	≤ 2 kN	333,-
963-363V (R)	≤ 5 kN	478,-	963-363V (R)	≤ 5 kN	438,-

Situation B: Complete force gauge (in N)* <sup>2</sup>					
ISO 376 (8 stages)			DKD-R 3-3 (5 stages, sequence A)		
KERN	Measuring range	Price € ex works excl. of VAT	KERN	Measuring range	Price € ex works excl. of VAT
<b>Tensile force:</b>					
963-161I (R)	≤ 500 N	149,-	963-161 (R)	≤ 500 N	135,-
963-162I (R)	≤ 2 kN	182,-	963-162 (R)	≤ 2 kN	165,-
963-163I (R)	≤ 5 kN	248,-	963-163 (R)	≤ 5 kN	225,-
<b>Compression force:</b>					
963-261I (R)	≤ 500 N	149,-	963-261 (R)	≤ 500 N	135,-
963-262I (R)	≤ 2 kN	182,-	963-262 (R)	≤ 2 kN	165,-
963-263I (R)	≤ 5 kN	248,-	963-263 (R)	≤ 5 kN	225,-
<b>Tensile and Compression force:</b>					
963-361I (R)	≤ 500 N	270,-	963-361 (R)	≤ 500 N	245,-
963-362I (R)	≤ 2 kN	330,-	963-362 (R)	≤ 2 kN	300,-
963-363I (R)	≤ 5 kN	446,-	963-363 (R)	≤ 5 kN	405,-

## Factory calibration for force

Situation A: Force transducer (voltage ratio, in mV/V)* <sup>1,2</sup>			Situation B: Complete force gauge (in N)* <sup>2</sup>		
KERN	Measuring range	Price € ex works excl. of VAT	KERN	Measuring range	Price € ex works excl. of VAT
<b>Tensile force:</b>					
961-161V (R)	≤ 500 N	168,-	961-161 (R)	≤ 500 N	135,-
961-162V (R)	≤ 2 kN	198,-	961-162 (R)	≤ 2 kN	165,-
961-163V (R)	≤ 5 kN	258,-	961-163 (R)	≤ 5 kN	225,-
961-164V (R)	≤ 20 kN	328,-	961-164 (R)	≤ 20 kN	295,-
961-165V (R)	≤ 50 kN	328,-	961-165 (R)	≤ 50 kN	295,-
961-166V (R)	≤ 120 kN	358,-	961-166 (R)	≤ 120 kN	325,-
<b>Compression force:</b>					
961-261V (R)	≤ 500 N	168,-	961-261 (R)	≤ 500 N	135,-
961-262V (R)	≤ 2 kN	198,-	961-262 (R)	≤ 2 kN	165,-
961-263V (R)	≤ 5 kN	258,-	961-263 (R)	≤ 5 kN	225,-
961-264V (R)	≤ 20 kN	328,-	961-264 (R)	≤ 20 kN	295,-
961-265V (R)	≤ 50 kN	328,-	961-265 (R)	≤ 50 kN	295,-
961-266V (R)	≤ 120 kN	358,-	961-266 (R)	≤ 120 kN	325,-
<b>Tensile and Compression force:</b>					
961-361V (R)	≤ 500 N	278,-	961-361 (R)	≤ 500 N	245,-
961-362V (R)	≤ 2 kN	333,-	961-362 (R)	≤ 2 kN	300,-
961-363V (R)	≤ 5 kN	438,-	961-363 (R)	≤ 5 kN	405,-
961-364V (R)	≤ 20 kN	473,-	961-364 (R)	≤ 20 kN	440,-
961-365V (R)	≤ 50 kN	473,-	961-365 (R)	≤ 50 kN	440,-
961-366V (R)	≤ 120 kN	520,-	961-366 (R)	≤ 120 kN	485,-

(R): Recalibration

For each force gauge without interface or from other manufacturers we charge a surcharge of € 10,- for the additional effort.

\*1 Compatibility with our amplifiers required

\*2 Installation in our measuring equipment required

## Factory calibration certificates

As DAkkS calibration certificates cannot be offered for all measuring devices or measurement sizes, or where it is not customary, we then offer factory calibration certificates. These calibration certificates meet international standards and are particularly suitable as proof of exacting calibration in the monitoring of your checking equipment, for example:

- Mechanical balances (spring balances, etc.)
- Force-measuring devices up to 120 kN
- Measuring devices for layer thickness 0 µm – 2000 µm
- Hardness testing devices in accordance with Leeb tests
- Ultrasonic material thickness testing device 25 mm - 300 mm

**We carry out calibrations independent of brand.** In order to avoid any unnecessary delays when processing your order, please send us the technical documents and necessary accessories with the checking device. Calibration time 4 working days.

**For up-to-date information on test services for further measuring sizes please visit our website [www.kern-lab.com](http://www.kern-lab.com)**

KERN	Physical unit	Measuring range	Price excl. of VAT ex works €
<b>Factory calibration</b>			
<b>961-161 (O)</b>	Force: Tension	≤ 500 N	<b>135,-</b>
<b>961-162 (O)</b>	Force: Tension	≤ 2 kN	<b>165,-</b>
<b>961-163 (O)</b>	Force: Tension	≤ 5 kN	<b>225,-</b>
<b>961-164</b>	Force: Tension	≤ 20 kN	<b>295,-</b>
<b>961-165</b>	Force: Tension	≤ 50 kN	<b>295,-</b>
<b>961-166</b>	Force: Tension	≤ 120 kN	<b>325,-</b>
<b>961-261 (O)</b>	Force: Compression	50 – 500 N	<b>135,-</b>
<b>961-262 (O)</b>	Force: Compression	≤ 2 kN	<b>165,-</b>
<b>961-263 (O)</b>	Force: Compression	≤ 5 kN	<b>225,-</b>
<b>961-264(O)</b>	Force: Compression	≤ 20 kN	<b>295,-</b>
<b>961-265(O)</b>	Force: Compression	≤ 50 kN	<b>295,-</b>
<b>961-266(O)</b>	Force: Compression	≤ 120 kN	<b>325,-</b>
<b>961-361 (O)</b>	Force: Tens. and Comp.	≤ 500 N	<b>245,-</b>
<b>961-362 (O)</b>	Force: Tens. and Comp.	≤ 2 kN	<b>300,-</b>
<b>961-363 (O)</b>	Force: Tens. and Comp.	≤ 5 kN	<b>405,-</b>
<b>961-364 (O)</b>	Force: Tens. and Comp.	≤ 20 kN	<b>440,-</b>
<b>961-365 (O)</b>	Force: Tens. and Comp.	≤ 50 kN	<b>440,-</b>
<b>961-366 (O)</b>	Force: Tens. and Comp.	≤ 120 kN	<b>485,-</b>
<b>961-167</b>	Force (for digital dynamometer KERN MAP)	≤ 130 kg	<b>120,-</b>
<b>961-110</b>	Coating thickness	≤ 2000 µm F or N	<b>120,-</b>
<b>961-112</b>	Coating thickness	≤ 2000 µm FN	<b>170,-</b>
<b>961-113</b>	Wall thickness (ultra sound)	≤ 300 mm (in stainless steel)	<b>120,-</b>
<b>961-114</b>	Wall thickness (Test blocks)	≤ 300 mm	<b>150,-</b>
<b>961-170</b>	Hardness comparison plate (Shore)	For sets up to 7 plates	<b>95,-</b>
<b>961-131</b>	Hardness tester (Leeb)	400 – 800 HLD	<b>120,-</b>
<b>961-132</b>	Hardness comparison plate (Leeb)	Hardness comparison plate (for Leeb durometer)	<b>120,-</b>
<b>961-270</b>	Hardness (UCI)	200 – 800 HV	<b>260,-</b>
<b>961-150</b>	Length	≤ 300 mm	<b>120,-</b>
<b>961-190</b>	Light	≤ 200000 lx	<b>165,-</b>
<b>961-100</b>	Mass (Mechanical balances/ spring balances)	≤ 5 kg	<b>72,-</b>
<b>961-101</b>	Mass (Mechanical balances/ spring balances)	> 5 – 50 kg	<b>88,-</b>
<b>961-102</b>	Mass (Mechanical balances/ spring balances)	> 50 – 350 kg	<b>105,-</b>
<b>961-103</b>	Mass (Mechanical balances/ spring balances)	> 350 – 1500 kg	<b>165,-</b>
<b>961-120</b>	Torque wrench test devices	1 Nm - 200 Nm	<b>170,-</b>
<b>Additional services</b>			
<b>962-116</b>	Express service with 48 hour delivery		<b>50,-/ instrument</b>

**KERN & Sohn GmbH**  
 Calibration Laboratory since 1994.  
 Ihr Partner für Kalibrierdienstleistungen, Prüfmittelmanagement und Beratung.  
 Your partner for calibration services, test equipment management and support.

**Kalibrierschein** MB-123-KERN-2016-08  
 Calibration certificate

**Kalibriergegenstand** Drehmomentschlüssel-Kalibriereinrichtung  
 Calibration object Torque wrench calibration device  
 Max 1 Nm d= 0,0001 Nm

**Hersteller** SAUTER GmbH  
 Manufacturer Ziegen 1  
 72336 Balglen  
 Deutschland

**Typ** DB 1.4  
 Type

**Fabrikat/Serien-Nr.** DB1234567  
 Serial number

**Inventurnummer** -  
 Inventory number

**Auftraggeber** Musterfirma GmbH  
 Customer Musterstr. 1  
 12345 Musterstadt  
 Deutschland

**Auftragsnummer** 2016-12345678  
 Order No. 01.08.2016

**Messungsergebnisse - Rechtsdrehmoment**  
 Measurement results - clockwise torque

Messung	Referenz-Drehmoment	Anzeige	Abweichung	Messunsicherheit	Toleranz	Konformität
Measure#	Reference torque	Indication	Err <sup>1)</sup>	meas. uncertainty <sup>2)</sup>	Tolerance <sup>3)</sup>	Conformity <sup>4)</sup>
1	0,2 Nm	0,1950 Nm	- 0,0002 Nm	0,0030 Nm	0,0050 Nm	✓
2	0,6 Nm	0,6004 Nm	+ 0,0004 Nm	0,0030 Nm	0,0050 Nm	✓
3	1,0 Nm	1,0004 Nm	+ 0,0004 Nm	0,0030 Nm	0,0050 Nm	✓

**Messungsergebnisse - Linksdrehmoment**  
 Measurement results - anticlockwise torque

Messung	Referenz-Drehmoment	Anzeige	Abweichung	Messunsicherheit	Toleranz	Konformität
Measure#	Reference torque	Indication	Err <sup>1)</sup>	meas. uncertainty <sup>2)</sup>	Tolerance <sup>3)</sup>	Conformity <sup>4)</sup>
1	0,2 Nm	0,2004 Nm	+ 0,0004 Nm	0,0030 Nm	0,0050 Nm	✓
2	0,6 Nm	0,6002 Nm	- 0,0002 Nm	0,0030 Nm	0,0050 Nm	✓
3	1,0 Nm	0,9996 Nm	- 0,0004 Nm	0,0030 Nm	0,0050 Nm	✓

<sup>1)</sup> E.g. (Abweichung) = (Anzeige) - (Referenz-Drehmoment) (Gefwert) - (Istwert) - (Referenz-Torque)  
<sup>2)</sup> Angewiesen ist die erweiterte Messunsicherheit, die sich aus der Standardunsicherheit durch Multiplikation mit dem Erweiterungsfaktor k=2 ergibt. Sie wurde gemäß DAkkS-DKD 3 in Anlehnung an DAkkS-DKD-R 3-8 unter Annahme von für diesen Gerätetyp typischen Werten für die relevanten Kenngrößen bei zweidirektionaler Belastung (Richtungsfehler, Wiederhol- und Vergleichspräzision, Drift).

**Factory calibration certificate for torque wrench test devices (except from the factory calibration certificate)**  
 Further details on the internet at [www.kern-lab.com](http://www.kern-lab.com)

O = no interface (applies to Sauter devices without an interface and also devices from other manufacturers)

**A****Accuracy classes for test weights**E, F, M ▶ *Error limit classes***Adjusting of measurement equipment**

Precise setting of a measurement value via a professional intervention in the measurement system.

**Adjusting the weighing range of a balance**

Either with the external test weight via the **adjusting program CAL**, or with the **internal automatic adjustment** resp. **adjusting switch**. It is necessary with variations in temperature, a change of environmental conditions, change of location, etc.

**Recommended as a daily check routine.**

**Alibi memory**

For weighings where verification is mandatory, and which are to be analysed and processed by a PC (e.g. printing out a packing list using a PC instead of a printer connected directly to the balance) electronic archiving is required by the metrological authorities by a verifiable data memory which cannot be manipulated. Alibi memories from KERN fulfil this requirement. They are for paperless archiving of weighing results. For KERN products the alibi memory is fitted inside the balance, right between where the weight is determined and the output to the PC.

All data transferred to the PC is stored with date, time and all important weights for at least three months. These stored data strings can be displayed on the balance at any time. The data in the alibi memory can be deleted, but not changed.

**Application accuracy**

Allowance for measuring uncertainty during practical use of a balance. Is given in the appendix to the DKD calibration certificate.

**ATEX**

Derived from **AT**mosphère **EX**plosibles. (explosive atmosphere). A synonym for EU guidelines, which controls the quality and use of equipment in hazardous industrial environments, where there is explosion danger, e.g. by handling of flammable substances, which are present in high concentrations in the form of gas, mist, vapour or dust. See also 2014/34/EU as well as 1999/92/EU.

**B****Balances which are verified/not approved for verification**

Metrologically almost identical. For verified balances certain details are regulated by law, e.g. software changes and additional markings.

**C****CAL**

Adjusting the balance is triggered with an external test weight by using the CAL key on the key pad or on the touch display of the display device or the CAL menu option. This will guarantee the consistent high accuracy of the balance.

**Calibration of measurement equipment**

Determination of the precision of a measurement value without intervention in the measurement system. Example: to check a balance you load a ▶ **test weight** upon it. The term "Calibrating" was formerly also used for ▶ **Adjusting**.

**Calibration Certificate DKD/DAkkS**

See product group 17 "Calibration service"

**Calibration or verification**

**DAkkS-Calibration** is possible for every balance in perfect condition. DAkkS calibration (DKD) is a private service monitored by the state for ensuring high quality requirements according to ISO 9000ff and others, e.g. in production or research. **Verifying (conformity assessment)** is only possible for type-approved balances marked with the green **M** ▶ **Verification**

**Commercial error limit**

Permitted tolerance (plus and minus) of measuring devices where verification is mandatory when used within their verification validity period. This tolerance is double the permissible error limit, in so far as this is not specified otherwise in the Weights and Measures Act).

**Conformity assessment**

Procedure for confirming warranted characteristics in accordance with recognised rules. For balances this relates to verification.

**Conformity declaration from the manufacturer**

The manufacturer declares that the product fulfils the applicable EU directives. With electronic balances this is always in conjunction with the CE mark.

**Control of measuring equipment in the QM system in conjunction with quality standards**

An organisation certified to a quality standard such as DIN EN ISO 9001 ff. e.g. a production plant is obliged to adhere to a defined quality standard within the framework of its quality management system. To do this, it is imperative to have a measurement equipment which is working accurately. Chapter 7.1.5 "Resources for monitoring and measuring" of DIN EN ISO 9001:2015-11 states that measuring equipment must be calibrated at defined intervals and before use. The measurement devices and measurement standards needed to do this must:

- be traced back to international or national standards.  
(▶ **Traceability to the National Standard**)
  - their uncertainty of measurement must be known- they must be marked with a clear identification
  - the test must be documented
- The ▶ **DAkkS calibration (DKD)** fulfils all these requirements.

**Conventional mass of weights**

The problem is the air movement, which makes the weight appear lighter. In order to avoid this "distortion" in daily use, all weights are adjusted to the unit specifications given in R111, e.g. it is accepted that: material density of the weights is 8000 kg/m<sup>3</sup>, air density is 1.2 kg/m<sup>3</sup> and measuring temperature is 20°C.

**Counting resolution**

The counting resolution is calculated in points from the ratio of the weighing range [Max] divided by the smallest part weight. It is a statement of counting accuracy.

**D****DAkkS = German accreditation authority**

▶ **Calibration Certificate DKD/DAkkS**

See product group 17 "Calibration service"

**Data interface**

To connect the balance to a printer, PC, network or a second balance. Typical interfaces are, for example, RS-232, RS-485, USB, Bluetooth, LAN, Digital I/O, DUAL, LAN etc. The interface parameters can be set using the balance. The interfaces available are stated in the model description.

**Density determination**

One of the main areas of application for laboratory balances is determining densities, e.g. determining the specific weight of liquids and solids. To do this you will need a highly accurate precision or analytical balance and a density set. It is particularly convenient if the balance can calculate and display the density right away.

It has become apparent that by means of weighing when in the process of determining the density of liquids and solids according to the buoyancy method particularly accurate results can be obtained (Archimedes' principle).

- a) Density determination of liquids: By means of measuring the buoyancy with a glass plummet with known volume immersed in the liquid to be measured
- b) Density determination of solid bodies:

$$\rho = \frac{A}{A-B} \cdot \rho_0$$

$\rho$  = Density of sample

A = Weight of sample in air

B = Weight of sample in auxiliary liquid

$\rho_0$  = Density of the auxiliary liquid

Applications:

- Pre-packaged goods control, whenever a product is sold according to its volume [cm<sup>3</sup>]. This volume is calculated with weight [g] : density [g/cm<sup>3</sup>].
- Materials analysis

### DMS = Strain gauge



An electrical resistor strip that is glued to an elastic deforming body made of aluminium. As the strain gauge is mechanically deformed its resistance value changes, allowing the measured value to be calculated.

### Draught shield

Required for balances with ► **Readout**  $d \leq 1$  mg, to avoid disturbing air movements.

### Dual-range balance

As the load increases, the balance switches automatically to the next largest range, for both, weighing range [Max] as well as readout [d].

## E

### Error limit classes for test weights according to EU directive OIML R111

For further details, see product group 16 "Test weights"

## F

### FACTORY

These options can only be carried out at KERN factory.

### FORCE = Electromagnetic force compensation



A counterforce is created by means of a coil in a permanent magnet. This counterforce is the same as the load of the weight being measured on the scale and therefore equalising. The measured value is calculated via the change in the coil current.

## G

### GLP = Good Laboratory Practice

► **ISO/GLP**

### Gravitational acceleration

► **Gravitational force**

### Gravitational force

very important influence for precise electronic balances. Due to the varying influence balances have to be ► **adjusted at the location of use.**

## H

### HACCP

#### = Hazard Analysis and Critical Control Points (HACCP)

The HACCP concept is a preventative system, which is designed to guarantee the safety of foodstuffs EC regulation 852/2004 mandates the use of the HACCP concept for all companies which are involved in production, processing and sales of foodstuffs.

## I

### ISO 9000ff/DIN EN ISO 9000ff

Quality Management System in the form of a DIN Norm for quality assurance in a factory.

### ISO calibration/ISO certificate = factory calibration certificate

Testing measurement devices for accuracy in accordance with a procedure which is recognised, but not accredited.

### ISO/GLP record keeping



Quality Assurance Systems demands record keeping of weighing results and correct adjusting of the balance, giving details of date, time and balance identification. The easiest way to obtain this documentation is by means of a connected printer.

## J

### Junction Box

For connection and simple corner adjustment of several load cells.

## L

### Linearity/Precision

Greatest deviation of the weight displayed of a balance with regard to the value of the respective test weight in terms of plus and minus across the whole weighing range.

## M

### Minimum load [Min]

Lower limit of the verifiable weighing range. Is marked on the verification mark. The function of the balance is also given below the minimum load.

### Minimum sample weight

Indicates the smallest weight which can be determined, depending on the process accuracy required.

## N

### Newton

Newton (N) is the unit for physical force values. A Newton is the force required to accelerate a 1 kg mass at rest to a speed of 1 m/s within one second.

### Notified body

Neutral and independent, predominantly government bodies, which are formally appointed by the EC. They are engaged in the field of verification for conformity evaluations (initial verification) and type-approval test within the scope of type approvals.

## O

### Optimisation of reference weight (when piece counting)

See product group 08 "Counting balances/Counting systems".

## P

### Percentage determination



Example: Reference weight prior to drying: 50g = balance display 100%. After drying 40g = balance display 80% absolute (dry mass) or 20% relative (humidity).

### Permissible ambient temperature

Measuring errors are possible if you use the balances outside the permitted specified ambient temperature range. With verified balances this is stated on the identification plate.

### PLU (Price Look Up)

This refers to a data memory in price-computing retail scales for the base price of sales items.

### Pre-packaging legislation (FPVO)

Ensures that pre-packed goods are filled correctly, for example, in food industry. The Weights and Measures Act governs the permissible weight and volume tolerances.

### PRE-TARE

Entering and saving a tare weight (e.g. container weight) through weighing or manual entry using the balance keypad before the actual weighing process. When you subsequently place the tare container on the balance, the balance will show zero immediately – saves time. Particularly useful e.g. for checking fill levels

### Proof of compatibility

This documents the verification compatibility for combinations of weighing modules such as display devices, load cells and connecting elements.

## R

### Readout [d]

Smallest readable weight increment on a digital display.

### Recalibration

Periodic checking of the precision of measurement equipment/checking equipment (e.g. balances/weights) to control accuracy, ► **Control of measurement equipment**

### Reference weight (when piece counting)

See product group 08 "Counting balances/Counting systems".



**Reproducibility (standard deviation)**

Sequenced measure of conformity in repeated weighing (e.g. balances) subject to the same conditions. Mostly 1 [d] or less. Quality feature.

**Resolution of a balance**

The resolution is calculated from the weighing range [Max] divided by the readout [d], e. g. [Max] 420 g : [d] 0.001 g = 420,000 points. The resolution is a quality feature – the higher, the better.

**S****SC-TECH = Single-Cell-Technology**

► **FORCE**. The load cell consists of a single aluminium block, which gives a very high measurement quality.

**Semi-micro balance**

Analytical balance with a readout [d] = 0,01 mg

**Smallest part weight when counting**

The smallest piece weight, which a balance can accept for piece counting. For the relevant model, enter “g/piece” in the product data table.

**T****T-FORK = Tuning fork principle**

A resonating body (like a tuning fork) is electromagnetically excited, causing it to oscillate. The measured value is calculated via the change in frequency corresponding to the load of the weight being measured on the scale.

**Taring, automatic**

► **PRE-TARE**

**Taring, subtractive**

The available weighing range of a balance is reduced by the value of the tare load.

Example: weighing range of a balance Max 6000g, Tare (= container) 470g, available weighing range 5530g.

**Test weight, external (previously calibration weight)**

For adjusting or checking the balance accuracy ► **Adjusting the weighing range**. The external test weight can be DAkkS calibrated at any time, even afterwards, see product group 17 “Calibration Service”.

**Test weight, internal**

Like test weight external, but installed in the balance and powered.

**Totalising**

Various individual weighings are added automatically to aggregate, e.g. all individual weighings of a batch.

**Traceability to the National Standard**

A pre-requisite for every perfect measurement is the validated comprehensive proof that the measuring equipment can be traced back to the international or national standards. In Germany the statutory binding standards are available from the PTB.

**Type approval for balances**

Strict process to test whether a balance fulfils the verification requirements. A balance can only be verified, if it has got a type approval from a ► **notified body**.

**U****Uncertainty of measurement of a balance (= standard deviation)**

Determined for each balance according to a precisely given test method and documented in the ► **Calibration certificate**. It depends on various factors, both, internal and external. Uncertainty of measurement increases by a rising charge of the balance, see product group 17 “Calibration Service”

**V****Verification**

Verification, in accordance with the new terminology “Conformity assessment”. Only balances with ► **EC type approval** can be evaluated for conformity. These balances have an identification plate with the metrology marking **M**. The state requires assessment for conformity and this assessment serves as consumer protection. According to EU directive 2014/31/EEC balances must be officially assessed for conformity (calibrated) if they are used as follows:

- in commercial trade when the price of a commodity is determined by weighing.
  - in the manufacture of pharmaceuticals in pharmacies and analysis in pharmaceutical and medical laboratories.
  - for official purposes.
  - in the production of prepackaging.
  - in medical applications.
- Every balance is tested by KERN and marked with a conformity mark. Its accuracy within the framework of permissible tolerances is thereby confirmed. EU verification applies to all member states of the EU.

**Verification classes of balances**

Class I – Analytical balance (precision balance),  
Class II – precision balance,  
Class III – industrial scale (commercial scale).

**Verification of a balance with adjusting program CAL EXT**

The adjusting program is sealed with an official mark after the verification. Thus the verification is only valid for the specific location of use. ► **Gravitational force**  
To be able to correctly adjust the balance to your location of use, it is necessary to advise the location of use and postcode. See individual model details for the information as to whether verification can be carried out in the factory or at the location of use.

**Verification of a balance with automatic internal adjusting CAL INT**

The above restrictions in respect of the location of use do not apply, because the automatic internal adjusting works also after verification, therefore it is not sealed. In this case, verification does not depend on the location.

**Verification validity for balances**

Generally 2 years for all verification classes, for control balances generally 1 year, after expiry the balance has to be re-verified.

**Verification value [e]**

Measure of the verification tolerance, depending on balance, mostly between 1 [d] and 10 [d] ► **Readout**

**W****Weighing range [Max]**

is the working range of the balance. The balance can be loaded up to the specified upper limit.

## Sales conditions



**All prices are valid as of January 1st 2020** until a new version of the KERN catalogue is released. In Europe, all prices do not include the applicable V.A.T.

**At KERN there is no minimum order value.** For orders less than € 15.00 there is no re-sale discount available.

**Delivery Conditions:** we supply ex works Balingen, e.g. the transport costs are invoiced. With our contract logistics partners we always offer you shipping at a good rate. When shipping to islands or other more distant areas, or areas which are difficult to access, the transport costs may possibly be higher, please ask for details. Any goods supplied remain KERN's property until complete payment for the goods sold has been received.



Delivery is usually via courier service.



When you see this symbol by truck, please ask for prices.

### Extract from general terms and conditions:

Court of jurisdiction/Legal domicile: 72336 Balingen, Germany;  
Commercial register N°: HRB 400865, AG Stuttgart;  
Managing director: Albert Sauter

For the full Terms and Conditions, please refer to the website.  
[www.kern-sohn.com/en/kern/agbs.html](http://www.kern-sohn.com/en/kern/agbs.html)

**Price changes and product changes** are likely in individual cases, due to product modifications as well as error.

**Sale or return:** within 14 days of purchase. Not valid for order-specific adaptations such as special productions, cable extensions, special weights, etc. or test services such as calibration, verification, etc. Depending on the time and effort involved, there may be processing and storage costs, please ask for details.

### Warranty:

- 3 years for products with list price  $\geq$  € 400.00
  - 2 years for components as well as products with list price  $<$  € 400.00
  - 1 year for pallet truck scales
- Does not apply to consumables such as batteries, rechargeable battery packs, etc.

Balances in areas regulated by law (► Verification) must comply with the commercial error limits during the period of validity for verification – these are usually double the verification permissible error limits. If this period of validity for verification expires, then reverification must be carried out. If, in order to pass the verification, it should be necessary to adjust the balance to comply with the verification permissible error limits, then this does not constitute a warranty claim.

## Service



**KERN DirectCash:** The quick, secure COD procedure for protection against non-payment. With the KERN DirectCash COD system, you can safely deliver orders to end customers with unknown credit rating, with no risk of non-payment. Please request further details on this procedure.

### Hire Purchase

Financing is available using KERN hire purchase – easy and convenient. Hire Purchase gives you the option of purchasing any product from our range against a simple monthly installment. The product value is financed over the period of the agreement. On payment of the last installment, the ownership of the contract item automatically transfers from the

contractor to the contractee. The Hire Purchase Agreement can – if you so choose – be set for a period of between one and five years. This package includes the transfer of items as well as the guarantee for the entire transfer period.

Compared with buying the product, KERN hire purchase offers the advantage that the initial financial investment is largely unnecessary. This is particularly relevant when purchasing a number of products, for example when refitting a laboratory, a company department or a hospital ward. In addition the monthly installments constitute a direct cost and the item does not have to be capitalised by the purchaser.

## After-Sales-Service



### Repair service

Within 1 week at our plant in Balingen, transportation costs are additional. In urgent cases, if requested by customer, a replacement device will be provided until all repairs are completed; please ask.

### Price reduction for a new device

If repair costs exceed the current value of the defective device, a new device will be offered for a discount price. This offer is valid only up to 2 years after warranty expiration.

### Spare parts service

Usually within 48 hours, transportation costs are additional.

## Marketing support



### KERN catalogues, brochures, branch prospectuses – your own personalised marketing tools

This catalogue and branch prospectuses are available free of charge. A neutral version of the catalogue, without the KERN address imprint, is also available free of charge for your marketing activities, larger quantities on request.

On demand, your company logo and address can be printed on the back of the KERN catalogue free of charge, larger quantities on request. In this way you have got your own individual marketing tool.

The KERN catalogue and branch prospectuses are available in the following languages: DE, GB, FR, IT, ES.

For further details, see page 2.

## Important notice



### Explosion hazard or humidity

Our balances are not suitable for rooms with a risk of explosion. Our models are also not suitable for rooms with a high level of air humidity (condensing). Please observe the applicable electrical regulations.

### Earth's gravitational force

Electronic balances are subject to location regulations due to the earth's gravitational force. If location of use is changed, reverification and recalibration of the electronic balance is needed.

See the glossary, page 223 ► **Adjusting**