# **KERN BALANCES & TEST SERVICES CATALOGUE 2021**

# Weighing beams KERN UFA



# 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
- Weighing beams: steel, painted, 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
- 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, new 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 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
- Istand to elevate display device Column height approx. 800 mm, KERN BFS-A07
- Internal rechargeable battery pack, operating time up to 35 h without backlight, charging time approx. 10 h, KERN KFB-A01
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification, KERN KFB-A03
- Analogue module, must be ordered at purchase, not possible in combination with signal lamp
- 0-10 V: KERN KFB-A04
- 4-20 mA: KERN KFB-A05
- Signal lamp for visual support of weighing with tolerance range, not possible in combination with analogue module, KERN CFS-A03
- **I** Large display with superior display size, KERN YKD-A02
- 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
- 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
- Further details, plenty of further accessories and suitable printers see Accessories

	STANDARD						OPTIC	DN FACTORY	
CALEXT ET RS 232 PROTOCOL PCS SUM UNIT TOL MOVE IP 67 MULTI DMS 2 DAYS +3 DAYS BT ANALOG ACCU				C 30			·•=•		
	CAL EXT ET RS	232 PROTOCOL	PCS SUM	UNIT TOL M		MULTI DMS	2 DAYS +3 D	AYS BT	ANALOG ACCU

Model	Weighing capacity	Readability	Net weight	Dimensions	Option
KERN	[Max] kg	[d] kg	approx. kg	Weighing beam W×D×H mm	DAkkS Calibr. Certificate DAkkS KERN
UFA 600K-1S	600	0,2	36	800×120×100	963-130
UFA 1.5T0.5	1500	0,5	38	1200×120×100	963-130
UFA 3T1	3000	1	38	1200×120×100	963-132
UFA 3T-3L	3000	1	60	2000×160×100	963-132
UFA 6T-3	6000	2	85	1200×160×100	963-132
UFA 6T-3L	6000	2	135	2000×160×100	963-132

# **KERN BALANCES & TEST SERVICES CATALOGUE 2021**



#### Pictograms



#### Internal adjusting: Quick setting up of the balance's accuracy with



CAL EXT

Adjusting program CAL: For quick setting up of the balance's accuracy. External adjusting weight required

internal adjusting weight (motordriven)



Easy Touch: Suitable for the connection, data transmission and control through PC, tablet or smartphone.



ALIBI

Memory:

Balance memory capacity, e.g. for article data,

weighing data, tare weights, PLU etc.



Alibi memory:

Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard

#### Data interface RS-232: • 6558.•

To connect the balance to a printer, PC or RS 232 network



# **RS-485 data interface:**

To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible



# USB data interface:

To connect the balance to a printer, PC or other peripherals

## Bluetooth\* data interface:

To transfer data from the balance to a printer, PC or other peripherals



\*

# WiFi data interface:

To transfer data from the balance to a printer, PC or other peripherals



Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.



# Analogue interface:

to connect a suitable peripheral device for analogue processing of the measurements



## Interface for second balance:

For direct connection of a second balance



balance calibration.

Range of services:

characteristics) for test weights

· Calibration of force-measuring devices

ment in Europe

# Network interface:

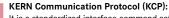
For connecting the scale to an Ethernet network

**KERN – Precision is our business** 



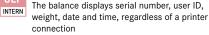
KCP

PROTOCOL



It is a standardized interface command set for KERN balances and other instruments, which allows retrieving and controlling all relevant parameters and functions of the device. KERN devices featuring KCP are thus easily integrated with computers, industrial controllers and other digital systems

## GLP/ISO log:



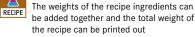
## GLP/ISO log:

With weight, date and time. Only with KERN PRINTER printers

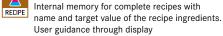
#### **Piece counting:**

Reference quantities selectable. Display can PCS be switched from piece to weight

## Recipe level A:



### Recipe level B:



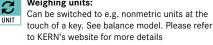
#### **Totalising level A:**

- 88' The weights of similar items can be added SUM together and the total can be printed out

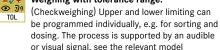
#### Percentage determination:

Determining the deviation in % from the target PERCENT value (100 %)

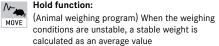
#### Weighing units:



## Weighing with tolerance range:



#### Hold function:





Protection against dust and water splashes IPxx:

The type of protection is shown in the pictogram

\*The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by KERN & SOHN GmbH is under license. Other trademarks and trade names are those of their respective owners

To ensure the high precision of your balance KERN offers you the the appropriate test weight in the international OIML error limit classes E1-M3 from 1 mg - 2500 kg.

In combination with a DAkkS calibration certificate the best pre-requisite for proper

The KERN DAkkS calibration laboratory today is one of the most modern and best-

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.

· Volume determination and measuring of magnetic susceptibility (magnetic

· Conformity evaluation and reverification of balances and test weights

· Database supported management of checking equipment and reminder service

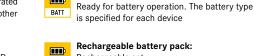
· DAkkS calibration certificates in the following languages DE, EN, FR, IT, ES, NL, PL

· DAkkS calibration of balances with a maximum load of up to 50 t · DAkkS calibration of weights in the range of 1 mg - 2500 kg

equipped DAkkS calibration laboratories for balances, test weights and force-measure-

# Your KERN specialist dealer: **Impex Produkter AS** Gamle Drammensvei 107 1363 HØVIK www.impex.no

info@impex.no Tel.: 22 32 77 20



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UNDER

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ACCU

Rechargeable battery pack:

Suspended weighing:

**Battery operation:** 

Rechargeable set

the balance

#### Universal mains adapter:

with universal input and optional input socket MULTI adapters for A) EU, CH, GB; B) EU, CH, GB, USA; C) EU, CH, GB, USA, AUS

230V/50Hz in standard version for EU, CH.

On request GB, USA or AUS version available

Load support with hook on the underside of



# Power supply:

Mains adapter:

-6-230 V



DMS

#### Weighing principle: Strain gauges: Electrical resistor on an elastic deforming body

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#### Weighing principle: Tuning fork:

A resonating body is electromagnetically excited, causing it to oscillate



#### Weighing principle: Electromagnetic force compensation:

Coil inside a permanent magnet. For the most accurate weighings

Weighing principle: Single cell technology:



## Advanced version of the force compensation principle with the highest level of precision

Verification possible: М

+3 DAYS

The time required for verification is specified in the pictogram

#### DAkkS calibration possible (DKD):

DAkkS The time required for DAkkS calibration is +3 DAYS shown in days in the pictogram

+4 DAYS

ò

2 DAYS

ISO

#### Factory calibration (ISO): The time required for Factory calibration is shown in days in the pictogram



Pallet shipment:

The time required for internal shipping 1 DAY preparations is shown in days in the pictogram

The time required for internal shipping

preparations is shown in days in the pictogram