KERN BALANCES & TEST SERVICES CATALOGUE 2019

KERN

Price computing scale KERN RFE







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

Features

- Ideal as a salad scale, sweet scale, checkweigher, 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
- **II Second display** on the rear of the balance
- Z 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
- Inanks 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

З

DMS

1 DAY

MULTI

Calculation of change

MEMORY

.....

RS 232 UNIT

STANDARD

CAL EXT

- 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

OPTION

...,

ACCU

DAkk

+3 DAY

- Large backlit LCD display, digit height 20 mm
- Dimensions weighing surface, stainless
- steel, W×D 230×300 mm
- Overall dimensions W×D×H 320×450×130 mm
- Net weight approx. 4,2 kg

FACTORY

Μ

- Permissible ambient temperature -10 $^{\circ}\text{C}/\text{40}$ $^{\circ}\text{C}$

Accessories

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

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	Readability	Verification value	Minimal load		Option			
						Verification		DAkkS Calibr. Certificate	
	[Max]	[d]	[e]	[Min]		MU		DAkkS	
KERN	kg	g	g	g		KERN		KERN	
RFE 6K3M	3 6	1 2	1 2	20		965-228		963-128	
RFE 15K3M	6 15	2 5	2 5	40		965-228		963-128	
RFE 30K3M	15 30	5 10	5 10	100		965-228		963-128	
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.

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PROTOCOL



Pictograms

Internal adjusting:

Quick setting up of the balance's accuracy with CAL INT internal adjusting weight (motordriven)

Adjusting program CAL:

For quick setting up of the balance's accuracy. External adjusting weight required



CAL EXT

Easy Touch:

Suitable for the connection, data transmission and control through PC, tablet or smartphone Memory:

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

weighing data, tare weights, PLU etc. Alibi memory:

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

• 6550 • RS 232

• 6534 •

ALIBI

To connect the balance to a printer, PC or network

RS-485 data interface:

Data interface RS-232:

To connect the balance to a printer, PC or other RS 485 peripherals. Suitable for data transfer over large distances. Network in bus topology is possible



USB data interface:

Bluetooth* data interface:

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

₿ BT

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



WLAN 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



ANALOG

Interface for second balance: For direct connection of a second balance



Network interface: For connecting the scale to an Ethernet network



Wireless data transfer:

between the weighing unit and the evaluation unit using an integrated radio module

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KERN – Precision is our business

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 balance calibration.

The KERN DAkkS calibration laboratory today is one of the most modern and bestequipped DAkkS 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.

Range of services:

- · 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 · Volume determination and measuring of magnetic susceptibility (magnetic
- characteristics) for test weights · Database supported management of checking equipment and reminder service
- · Calibration of force-measuring devices
- · DAkkS calibration certificates in the following languages DE, GB, FR, IT, ES, NL, PL
- · Conformity evaluation and reverification of balances and test weights



PCS

GLP/ISO log:

The balance displays serial number, user ID, weight, date and time, regardless of a printer connection

KERN Communication Protocol (KCP):

It is a standardized interface command set for

KERN balances and other instruments, which

parameters and functions of the device. KERN

devices featuring KCP are thus easily integrated

with computers, industrial controllers and other

allows retrieving and controlling all relevant

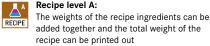


With weight, date and time. Only with KERN PRINTER printers

Piece counting:

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

Recipe level A:



Recipe level B:

Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display

> name and target value of the recipe ingredients. User guidance through display, multiplier

function, adjustment of recipe when dosages

Recipe level C: ∠^c Internal memory for complete recipes with



Totalising level A:

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

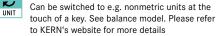
are exceeded or barcode recognition



Percentage determination:

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

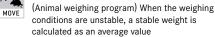
Weighing units: C



Weighing with tolerance range: ⊙ ີ 🤊 ୬ TOL

(Checkweighing) Upper and lower limiting can be programmed individually, e.g. for sorting and dosing. The process is supported by an audible or visual signal, see the relevant model

M--Hold function:



Protection against dust and water splashes IPxx: 666 The type of protection is shown in the pictogram. IP

Stainless steel:

The balance is protected against corrosion

Suspended weighing:

Load support with hook on the underside of the balance

Battery operation:

Ready for battery operation. The battery type is BATT specified for each device



ΙΝΟΧ

Rechargeable battery pack: Rechargeable set



Universal mains adapter:

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

Mains adapter:

230V/50Hz in standard version for EU. On 230 V request GB, USA or AUS version available

Power supply:



Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request

DMS

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



Weighing principle: Tuning fork: A resonating body is electromagnetically

excited, causing it to oscillate

the pictogram

Weighing principle: Electromagnetic force

s T compensation FORCE Coil inside a permanent magnet. For the most

accurate weighings

Weighing principle: Single cell technology:

The time required for verification is specified in

The time required for DAkkS calibration is

The time required for internal shipping

The time required for internal shipping

preparations is shown in days in the pictogram

preparations is shown in days in the pictogram

Advanced version of the force compensation

SC TECH

principle with the highest level of precision Verification possible:

DAkkS calibration possible:

shown in days in the pictogram

Package shipment:

Pallet shipment:



DAkkS

+3 DAYS

1 DAY

2 DAYS

Your KERN specialist dealer:

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