





PRICE COMPUTING SCALES

PROFESSIONAL
MEASURING



2018

KERN Pictograms

 Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)	 GLP/ISO log: The balance displays serial number, user ID, weight, date and time, regardless of a printer connection	 Suspended weighing: Load support with hook on the underside of the balance
 Adjusting program CAL: For quick setting up of the balance's accuracy. External adjusting weight required	 GLP/ISO log: With weight, date and time. Only with KERN printers, see page 154/155	 Battery operation: Ready for battery operation. The battery type is specified for each device
 Memory: Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	 Piece counting: Reference quantities selectable. Display can be switched from piece to weight	 Rechargeable battery pack: Rechargeable set
 Alibi memory: Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard. For details see page 191	 Recipe level A: The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out	 Universal mains adapter: with universal input and optional input socket adapters for A) EU, GB B) EU, GB, CH, USA C) EU, GB, CH, USA, AUS
 Data interface RS-232: To connect the balance to a printer, PC or network	 Recipe level B: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display	 Mains adapter: 230V/50Hz in standard version for EU. On request GB, USA or AUS version available
 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	 Recipe level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, multiplier function, adjustment of recipe when dosages are exceeded or barcode recognition	 Power supply: Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request
 USB data interface: To connect the balance to a printer, PC or other peripherals	 Totalising level A: The weights of similar items can be added together and the total can be printed out	 Weighing principle: Strain gauges Electrical resistor on an elastic deforming body
 Bluetooth* data interface: To transfer data from the balance to a printer, PC or other peripherals	 Percentage determination: Determining the deviation in % from the target value (100 %)	 Weighing principle: Tuning fork A resonating body is electromagnetically excited, causing it to oscillate
 WLAN data interface: To transfer data from the balance to a printer, PC or other peripherals	 Weighing units: Can be switched to e.g. nonmetric units at the touch of a key. See balance model. Please refer to KERN's website for more details	 Weighing principle: Electromagnetic force compensation Coil inside a permanent magnet. For the most accurate weighings
 Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.	 Weighing with tolerance range: (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	 Weighing principle: Single cell technology Advanced version of the force compensation principle with the highest level of precision
 Interface for second balance: For direct connection of a second balance	 Hold function: (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value	 Verification possible: The time required for verification is specified in the pictogram
 Network interface: For connecting the scale to an Ethernet network	 Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram. For details see page 58	 DAkkS calibration possible (DKD): The time required for DAkkS calibration is shown in days in the pictogram
 Wireless data transfer: between the weighing unit and the evaluation unit using an integrated radio module	 Stainless steel: The balance is protected against corrosion	 Package shipment: The time required for internal shipping preparations is shown in days in the pictogram
 KERN Communication Protocol (KCP): 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	 Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram	

KERN – measuring technology and testing services from a single source



Balances & Test service catalogue

Provides a complete overview of the KERN line of balances, test weights, and services such as verification, calibration, etc.



Medical scales catalogue

Complete line of medical scales, from infant scales to patient scales, chair scales and adiposity scales, as well as hand grip dynamometers, chemist's balances and veterinary scales.



Microscopes & refractometers catalogue

Extensive range in the area of optical instruments, such as, for example, biological microscopes, stereo microscopes, metallurgical microscopes, polarisation microscopes as well as analogue and digital refractometers.



SAUTER measuring equipment catalogue

Test instruments for industry and commerce, such as force, coating thickness, material thickness and calibration service.



DAkKS calibration service brochure

Detailed information on topics pertaining to the calibration and verification of balances, test weights, and force measuring devices.

Your advantages

fast

- 24 hours delivery service for products in stock – ordered today, on its way tomorrow
- Sales & service hotline available from 8:00 am to 6:00 pm

reliable

- Up to 3 years warranty
- Precision in weighing technology for more than 170 years

competent

- DAkKS accreditation
DIN EN ISO/IEC 17025
- Certified QM system
DIN EN ISO 9001
- Authorisation for initial verification by the manufacturer 2014/31/EU
- Medical certifications
DIN EN ISO 13485 and
93/42/EEC

versatile

- One-stop shopping: from pocket balances through to 15 t crane balance – everything from one supplier
- Find the product you want at lightning speed with the “Balance Quick-Finder” at www.kern-sohn.com



Order hotline

+49 [0] 7433 9933-0



Service hotline

+49 [0] 7433 9933-199



Calibration hotline

+49 [0] 7433 9933-196



Our team of consultants will assist you

from Monday to Friday
from 8:00 am to 6:00 pm



Online Shop

www.kern-sohn.com



E-mail order

info@kern-sohn.com



Fax order

+49 [0] 7433 9933-146



www.kern-sohn.com

Information on current product availability, product data sheets, user instructions, useful knowledge, technical glossary, images and much for you to download, practical topic areas, which will guide you to the right product in your industry as well as a clever test weight and balance search engine.

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 be called up at lightning speed. This accelerates customer service and reduces waiting times.

► See the glossary on page 191–193

Quick-Finder Price computing scales											
Read-out [d] g	Weighing range [Max] kg	Model	Price excl. of VAT ex works €	Page	DAYS	M	CAL EXT	RS 232	MEMORY	IP	ACCU
1 2	3 6	RIB 6K-3M	210,-	68	1	○	●		●		○
1 2	3 6	RIB 6K-3HM	240,-	68	1	○	●		●		○
1 2	3 6	RPB 6K 1DM	215,-	69	1	○	●	●	●		○
1 2	3 6	RPB 6K 1DHM	245,-	69	1	○	●	●	●		○
1 2	3 6	RFE 6K3M	295,-	70	1	○	●	●	●	●	○
2 5	6 15	RIB 10K-3M	210,-	68	1	○	●		●		○
2 5	6 15	RIB 10K-3HM	240,-	68	1	○	●		●		○
2 5	6 15	RPB 15K2DM	215,-	69	1	○	●	●	●		○
2 5	6 15	RPB 15K2DHM	245,-	69	1	○	●	●	●		○
2 5	6 15	RFE 15K3M	295,-	70	1	○	●	●	●	●	○
5 10	15 30	RIB 30K-2M	210,-	68	1	○	●		●		○
5 10	15 30	RIB 30K-2HM	240,-	68	1	○	●		●		○
5 10	15 30	RPB 30K5DM	215,-	69	1	○	●	●	●		○
5 10	15 30	RPB 30K5DHM	245,-	69	1	○	●	●	●		○
5 10	15 30	RFE 30K3M	295,-	70	1	○	●	●	●	●	○

□ News 2018

● = standard ○ = option



- Intuitive operation
- Large number of item memories
- Little space requirements
- Mains operation and rechargeable battery pack possible
- 4. Display for TARE or PRE-TARE value
- Second display which can be fitted on the back of the balance or on a column

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KERN RFE



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

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), reference weight, total weight
- **Calculation of change**
- **10 Direct price keys** for frequently recurring article prices
- **Memory (PLU) for 20 article prices**
- **Energy management:** Backlight turns off after 5 sec, 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, WxD 294x225 mm
- Overall dimensions WxDxH
KERN RIB-M: 325x400x115 mm
KERN RIB-HM: 325x400x400 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., WxDxH 370x240x20 mm, KERN RFS-A02, **€ 55,-**

Application examples

- retail shops
- market places
- farm shops
- pick your own fruit and vegetable sales

Note: Official verification duty for commercial trade

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

Model	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Price excl. of VAT ex works €	Options				
						Verification		DAkKS Calibr. Certificate		
KERN							€		€	
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d].										
RIB 6K-3M	3 6	1 2	1 2	20 40	210,-	965-228	70,-	963-128	88,-	
RIB 10K-3M	6 15	2 5	2 5	40 100	210,-	965-228	70,-	963-128	88,-	
RIB 30K-2M	15 30	5 10	5 10	100 200	210,-	965-228	70,-	963-128	88,-	
with elevated display										
RIB 6K-3HM	3 6	1 2	1 2	20 40	240,-	965-228	70,-	963-128	88,-	
RIB 10K-3HM	6 15	2 5	2 5	40 100	240,-	965-228	70,-	963-128	88,-	
RIB 30K-2HM	15 30	5 10	5 10	100 200	240,-	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.

FACE
LIFT



Sim. to illustration



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 backlit**, 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), reference weight, total weight
- **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, WxD 204x263 mm
- Overall dimensions WxDxH
KERN RPB-M: 270x310x65 mm
KERN RPB-HM: 270x370x490 mm
- Net weight
KERN RPB-M: approx. 3,5 kg
KERN RPB-HM: approx. 4,2 kg
- Permissible ambient temperature -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 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., WxDxH 370x240x20 mm, KERN RFS-A02, **€ 55,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

Application examples

- retail shops
- market places
- farm shops
- pick your own fruit and vegetable sales

Note: Official verification duty for commercial trade



Model	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Price excl. of VAT ex works €	Options			
						Verification		DAkKS Calibr. Certificate	
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d].									
RPB 6K1DM	3 6	1 2	1 2	20	225,-	965-228	70,-	963-128	88,-
RPB 15K2DM	6 15	2 5	2 5	40	225,-	965-228	70,-	963-128	88,-
RPB 30K5DM	15 30	5 10	5 10	100	225,-	965-228	70,-	963-128	88,-
with elevated display									
RPB 6K1DHM	3 6	1 2	1 2	20	250,-	965-228	70,-	963-128	88,-
RPB 15K2DHM	6 15	2 5	2 5	40	250,-	965-228	70,-	963-128	88,-
RPB 30K5DHM	15 30	5 10	5 10	100	250,-	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.

NEW



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, check-weigher, portion scale
- **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, TARE value, unit price, 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, €/piece
- **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** to print out weighing results on thermal labels, ASCII-capable, further details see *Accessories*, KERN YKE-01, € 590,-

Application examples

- cafeterias, restaurants, motorway service stations
- retail shops
- market places
- farm shops
- pick your own fruit and vegetable sales

Note: Official verification duty for commercial trade

STANDARD OPTION FACTORY

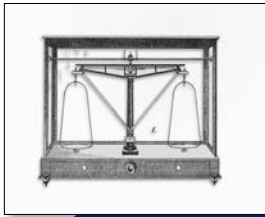
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Model	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Price excl. of VAT ex works €	Options			
						Verification		DAkKS Calibr. Certificate	
KERN							€		€
RFE 6K3M	3 6	1 2	1 2	20	295,-	965-228	70,-	963-128	88,-
RFE 15K3M	6 15	2 5	2 5	40	295,-	965-228	70,-	963-128	88,-
RFE 30K3M	15 30	5 10	5 10	100	295,-	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.

Tradition and innovation for more than 170 years

An independent family business, KERN since already 7 generations is synonymous with quality and reliability in customer service.



1844

KERN is founded – precision balances are produced



1863

A proud Gottlieb Kern with his staff



1880

Pharmaceutical balance with Aesculap



1923

Inflation – KERN wages are paid with self printed currency



1980

The electronic balance ousts mechanical devices



1994

Accredited DKD laboratory (ISO 17025)



2000

New premises in Balingen



2002

Existing QM system certification in accordance with DIN EN ISO 9001:2000 standards



2007

Approval for the manufacture of medical products (DIN EN 13485 and 93/42/EEC)



2008

Authorisation for initial verification by the manufacturer (2009/23/EU)



2009

Approval for the manufacture and sale of height rods (DIN EN 13485 and 93/42/EEC)



2012

Verification point for non-automatic balances and test weights.

New customer portal www.kern-sohn.com goes live



2014

Expansion of the product range to include optical instruments (microscopes and refractometers)



2015

Inauguration of Ziegelei 2.0 with computer-controlled high-bay warehouse



2017

Come with KERN into the digital future: Expansion of the model ranges compatible with Industry 4.0, as well as the related services

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