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Please note:  
**New prices** - valid from  
**July 1, 2022**  
see: [www.kern-sohn.com](http://www.kern-sohn.com)

**KERN**<sup>®</sup>

# Price computing scales



# 2022



PROFESSIONAL MEASURING

# KERN Pictograms



## Internal adjusting:

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



## Adjusting program CAL:

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



## Easy Touch:

Suitable for the connection, data transmission and control through PC or tablet. For details see page 123



## 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. For details see page 215



## Data interface RS-232:

To connect the balance to a printer, PC or 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



## Network interface:

For connecting the scale to an Ethernet network



## 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



## GLP/ISO log:

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



## GLP/ISO log:

With weight, date and time. Only with KERN printers, see page 163–165



## Piece counting:

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



## Recipe level A:

The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out



## Recipe level B:

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



## Totalising level A:

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



## Percentage determination:

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



## Weighing units:

Can be switched to e.g. nonmetric units. See balance model. Please refer to KERN's website for more details



## 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



## Hold function:

(Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value



## Protection against dust and water splashes IPxx:

The type of protection is shown in the pictogram. For details see page 53



## Suspended weighing:

Load support with hook on the underside of the balance



## Battery operation:

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



## Rechargeable battery pack:

Rechargeable set



## Universal plug-in power supply:

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



## Plug-in power supply:

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



## Integrated power supply unit:

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



## 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



## 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:

The time required for verification is specified in the pictogram



## DAKkS calibration possible (DKD):

The time required for DAKkS calibration is shown in days in the pictogram



## Factory calibration (ISO):

The time required for Factory calibration is shown in days in the pictogram



## Package shipment:

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



## 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, 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 175 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/EWG

### versatile

- One-stop shopping: from pocket balances through to 12 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](http://www.kern-sohn.com)



#### Order hotline

+49 7433 9933-0



#### Service hotline

+49 7433 9933-199



#### Calibration hotline

+49 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](http://www.kern-sohn.com)



#### E-mail order

[info@kern-sohn.com](mailto:info@kern-sohn.com)



#### Fax order

+49 7433 9933-149



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

- > Large LCD display with four displays
- > TARE value display
- > Calculation of change
- > Stand to elevate display device
- > Mains operation and rechargeable battery pack (optional)
- > Practical second display on the back of the balance



## 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, these are verification class **M<sub>111</sub>** 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 215–217

### Quick-Finder Price computing scales

Readability [d] g	Weighing capacity [Max] kg	Model	Page						
KERN									
For an explanation on the pictos, see front flap									
0,5   1	1,5   3	RPB 3K3DM	68	1	○	●	●	●	○
0,5   1	1,5   3	RPB 3K3DHM	68	1	○	●	●	●	○
1   2	3   6	RIB 6K-3M	67	1	○	●	●	●	○
1   2	3   6	RIB 6K-3HM	67	1	○	●	●	●	○
1   2	3   6	RPB 6K1DM	68	1	○	●	●	●	○
1   2	3   6	RPB 6K1DHM	68	1	○	●	●	●	○
1   2	3   6	RFE 6K3M	69	1	○	●	●	●	○
2   5	6   15	RIB 10K-3M	67	1	○	●	●	●	○
2   5	6   15	RIB 10K-3HM	67	1	○	●	●	●	○
2   5	6   15	RPB 15K2DM	68	1	○	●	●	●	○
2   5	6   15	RPB 15K2DHM	68	1	○	●	●	●	○
2   5	6   15	RFE 15K3M	69	1	○	●	●	●	○
5   10	15   30	RIB 30K-2M	67	1	○	●	●	●	○
5   10	15   30	RIB 30K-2HM	67	1	○	●	●	●	○
5   10	15   30	RPB 30K5DM	68	1	○	●	●	●	○
5   10	15   30	RPB 30K5DHM	68	1	○	●	●	●	○
5   10	15   30	RFE 30K3M	69	1	○	●	●	●	○

● = standard ○ = option



## 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), unit price, total price
- 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
- 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: 325x340x405 mm
- Net weight  
KERN RIB-M: approx. 3,2 kg  
KERN RIB-HM: approx. 3,8 kg
- Permissible ambient temperature -10 °C/40 °C

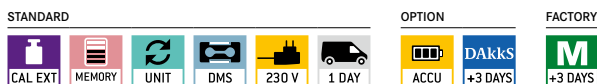
### Accessories

- Protective working cover, scope of delivery: 5 items, KERN RIB-A01S05
- Internal rechargeable battery pack, operating time up to 80 h without backlight, charging time approx. 14 h, KERN GAB-A04
- **3** Tare pan made of stainless steel, ideal for weighing loose small parts as well as fruit, vegetables etc., WxDxH 370x240x20 mm, KERN RFS-A02

### Application examples

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

**Note:** Official verification is mandatory for commercial trade.



Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Option		
					Verification M KERN	DAKKS KERN	Calibr. Certificate
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	965-228		963-128
RIB 10K-3M	6   15	2   5	2   5	40   100	965-228		963-128
RIB 30K-2M	15   30	5   10	5   10	100   200	965-228		963-128
with elevated display							
RIB 6K-3HM	3   6	1   2	1   2	20   40	965-228		963-128
RIB 10K-3HM	6   15	2   5	2   5	40   100	965-228		963-128
RIB 30K-2HM	15   30	5   10	5   10	100   200	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.





## Retail scale with memories for item prices – now with Checkout-Dialogue 06

**4 New:** Checkout Dialog 06 – This dialog describes the communication procedure between a checkout scale in customer traffic and a freely programmable POS system, consisting of POS hardware and software. The aim of the Checkout Dialog 06 is to make manipulation of the data streams by third parties in principle impossible in freely programmable POS systems.  
Note: Other protocols on request.

### Features

- 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), unit price, total price
- 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: 263×313×108 mm  
RPB-HM: 263×313×480 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
- Internal rechargeable battery pack, operating time up to 50 h without backlight, charging time approx. 12 h, KERN WTB-A01N
- Tare pan made of stainless steel, ideal for weighing loose small parts as well as fruit, vegetables etc., W×D×H 370×240×20 mm, KERN RFS-A02
- 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 is mandatory for commercial trade.



Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Option		
					Verification		DAKKS Calibr. Certificate
					M KERN	M KERN	DAKKS KERN
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readability [d]							
RPB 3K3DM <small>NEW</small>	1,5   3	0,5   1	0,5   1	10	965-227	963-127	
RPB 6K1DM	3   6	1   2	1   2	20	965-228	963-128	
RPB 15K2DM	6   15	2   5	2   5	40	965-228	963-128	
RPB 30K5DM	15   30	5   10	5   10	100	965-228	963-128	
with elevated display							
RPB 3K3DHM <small>NEW</small>	1,5   3	0,5   1	0,5   1	10	965-227	963-127	
RPB 6K1DHM	3   6	1   2	1   2	20	965-228	963-128	
RPB 15K2DHM	6   15	2   5	2   5	40	965-228	963-128	
RPB 30K5DHM	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.

NEW New model

**NEW** **PREMIUM**  
★ ★ ★



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 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

- 4 Direct price keys for frequently recurring article prices
- Memory (PLU) for 100 article prices
- Article description can be entered, displayed and printed in plain text
- Unit price can be switched from EUR/kg to EUR/100 g
- Auto-clear-key: Unit price entry is automatically set to zero when scale is unloaded
- 3 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
- 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 is mandatory for commercial trade.

STANDARD

CAL EXT | MEMORY | RS 232 | UNIT | MULTI | DMS | 1 DAY

OPTION | FACTORY

ACCU | DAKKS +3 DAYS | M +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Option		
					Verification M KERN	DAkKS Calibr. Certificate DAkKS KERN	
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readability [d]							
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	

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