

# PRICE COMPUTING SCALES

PROFESSIONAL  
MEASURING

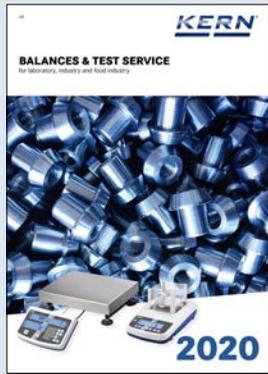


# 2020

# KERN Pictograms

 <b>Internal adjusting:</b> Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)	 <b>KERN Communication Protocol (KCP):</b> 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	 <b>Protection against dust and water splashes IPxx:</b> The type of protection is shown in the pictogram. For details see page 62
 <b>Adjusting program CAL:</b> For quick setting up of the balance's accuracy. External adjusting weight required	 <b>GLP/ISO log:</b> The balance displays serial number, user ID, weight, date and time, regardless of a printer connection	 <b>Stainless steel:</b> The balance is protected against corrosion
 <b>Easy Touch:</b> Suitable for the connection, data transmission and control through PC, tablet or smartphone	 <b>GLP/ISO log:</b> With weight, date and time. Only with KERN printers, see page 171-173	 <b>Suspended weighing:</b> Load support with hook on the underside of the balance
 <b>Memory:</b> Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	 <b>Piece counting:</b> Reference quantities selectable. Display can be switched from piece to weight	 <b>Battery operation:</b> Ready for battery operation. The battery type is specified for each device
 <b>Alibi memory:</b> Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard. For details see page 223	 <b>Recipe level A:</b> The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out	 <b>Rechargeable battery pack:</b> Rechargeable set
 <b>Data interface RS-232:</b> To connect the balance to a printer, PC or network	 <b>Recipe level B:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display	 <b>Universal mains adapter:</b> with universal input and optional input socket adapters for A) EU, CH, GB B) EU, CH, GB, USA C) EU, CH, GB, USA, AUS
 <b>RS-485 data interface:</b> To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible	 <b>Recipe level C:</b> 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	 <b>Mains adapter:</b> 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available
 <b>USB data interface:</b> To connect the balance to a printer, PC or other peripherals	 <b>Totalising level A:</b> The weights of similar items can be added together and the total can be printed out	 <b>Power supply:</b> Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request
 <b>Bluetooth* data interface:</b> To transfer data from the balance to a printer, PC or other peripherals	 <b>Percentage determination:</b> Determining the deviation in % from the target value (100 %)	 <b>Weighing principle: Strain gauges</b> Electrical resistor on an elastic deforming body
 <b>WLAN data interface:</b> To transfer data from the balance to a printer, PC or other peripherals	 <b>Weighing units:</b> 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	 <b>Weighing principle: Tuning fork</b> A resonating body is electromagnetically excited, causing it to oscillate
 <b>Control outputs (optocoupler, digital I/O):</b> To connect relays, signal lamps, valves, etc.	 <b>Weighing with tolerance range:</b> (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	 <b>Weighing principle: Electromagnetic force compensation</b> Coil inside a permanent magnet. For the most accurate weighings
 <b>Analogue interface:</b> to connect a suitable peripheral device for analogue processing of the measurements	 <b>Hold function:</b> (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value	 <b>Weighing principle: Single cell technology:</b> Advanced version of the force compensation principle with the highest level of precision
 <b>Interface for second balance:</b> For direct connection of a second balance	 <b>Package shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram	 <b>Verification possible:</b> The time required for verification is specified in the pictogram
 <b>Network interface:</b> For connecting the scale to an Ethernet network	 <b>Pallet shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram	 <b>DAkkS calibration possible (DKD):</b> The time required for DAkkS calibration is shown in days in the pictogram
 <b>Wireless data transfer:</b> between the weighing unit and the evaluation unit using an integrated radio module		

# KERN – measuring technology and testing services from a single source



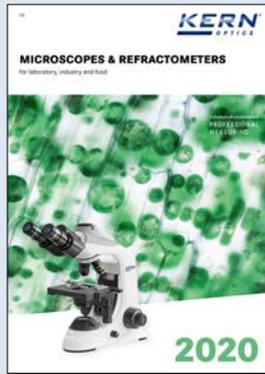
**Balances & Test service catalogue**

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



**Order hotline**  
+49 7433 9933-0



**Online Shop**  
[www.kern-sohn.com](http://www.kern-sohn.com)



**Service hotline**  
+49 7433 9933-199



**E-mail order**  
[info@kern-sohn.com](mailto:info@kern-sohn.com)



**Calibration hotline**  
+49 7433 9933-196



**Fax order**  
+49 7433 9933-146



**Our team of consultants will assist you**  
from Monday to Friday  
from 8:00 am to 6:00 pm



### **[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.

## 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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- ▷ 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 backlight**, 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, WxD 204x263 mm
- Overall dimensions WxDxH  
RPB-M: 310x270x65 mm  
RPB-HM: 310x270x545 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., WxDxH 370x240x20 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

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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]									
<b>RPB 6K1DM</b>	3   6	1   2	1   2	20	<b>205,-</b>	965-228	70,-	963-128	88,-
<b>RPB 15K2DM</b>	6   15	2   5	2   5	40	<b>205,-</b>	965-228	70,-	963-128	88,-
<b>RPB 30K5DM</b>	15   30	5   10	5   10	100	<b>205,-</b>	965-228	70,-	963-128	88,-
with elevated display									
<b>RPB 6K1DHM</b>	3   6	1   2	1   2	20	<b>220,-</b>	965-228	70,-	963-128	88,-
<b>RPB 15K2DHM</b>	6   15	2   5	2   5	40	<b>220,-</b>	965-228	70,-	963-128	88,-
<b>RPB 30K5DHM</b>	15   30	5   10	5   10	100	<b>220,-</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.



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
- **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	€
<b>KERN 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*



**KERN & SOHN GmbH**  
**Balances, Test weights, Microscopes,**  
**DAkkS calibration laboratory**

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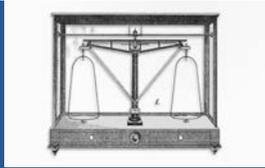
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**1769**

Ancestor Johann Jakob Sauter built the Hahn inclination scale out of iron, a foundation stone for weighing for the balance industry in Southern Germany



**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/EC)



**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](http://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



**2019**

Significant anniversary year! 25 years of accredited DKD laboratory 175 years of KERN & SOHN 250 years of balance manufacture in the Sauter family-owned company



**2020**

Construction of Ziegelei 3.0, extension of administration building