

PROFESSIONAL MEASURING



# PRICE COMPUTING SCALES

# 23

# KERN Pictograms

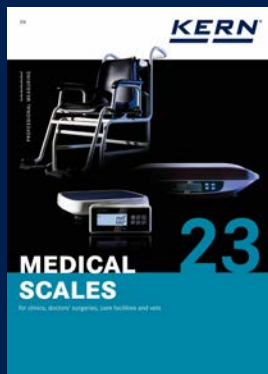
 <b>Internal adjusting:</b> Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)	 <b>Network interface:</b> For connecting the scale to an Ethernet network	 <b>Suspended weighing:</b> Load support with hook on the underside of the balance
 <b>Adjusting program CAL:</b> For quick setting up of the balance's accuracy. External adjusting weight required	 <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>Battery operation:</b> Ready for battery operation. The battery type is specified for each device
 <b>Easy Touch:</b> Suitable for the connection, data transmission and control through PC or tablet.	 <b>GLP/ISO log:</b> The balance displays weight, date and time, independent of a printer connection	 <b>Rechargeable battery pack:</b> Rechargeable set
 <b>Memory:</b> Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	 <b>GLP/ISO log:</b> The balance displays weight, date and time, independent of a printer connection	 <b>Universal plug-in power supply:</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>Alibi memory:</b> Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.	 <b>GLP/ISO log:</b> With weight, date and time. Only with KERN printers.	 <b>Plug-in power supply:</b> 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available
 <b>KERN Universal Port (KUP):</b> allows the connection of external KUP interface adapters, e.g. RS-232, RS-485, SB, Bluetooth, WLAN, Analogue, Ethernet etc. for the exchange of data and control commands, without installation effort	 <b>Piece counting:</b> Reference quantities selectable. Display can be switched from piece to weight	 <b>Integrated power supply unit:</b> Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request
 <b>Data interface RS-232:</b> To connect the balance to a printer, PC or network	 <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>Weighing principle: Strain gauges</b> Electrical resistor on an elastic deforming body
 <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 B:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display	 <b>Weighing principle: Tuning fork</b> A resonating body is electromagnetically excited, causing it to oscillate
 <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>Weighing principle: Electromagnetic force compensation</b> Coil inside a permanent magnet. For the most accurate weighings
 <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: Single cell technology:</b> Advanced version of the force compensation principle with the highest level of precision
 <b>WiFi 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. See balance model. Please refer to KERN's website for more details	 <b>Verification possible:</b> The time required for verification is specified in the pictogram
 <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>DAkkS calibration possible (DKD):</b> The time required for DAkkS calibration is shown in days in the pictogram
 <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>Factory calibration (ISO):</b> The time required for Factory calibration is shown in days in the pictogram
 <b>Interface for second balance:</b> For direct connection of a second balance	 <b>Protection against dust and water splashes IPxx:</b> The type of protection is shown in the pictogram.	 <b>Package shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram
		 <b>Pallet shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram

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



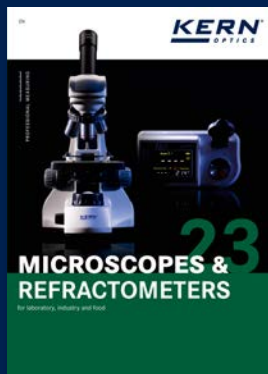
**Balances & Test service catalogue**

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.



**Test 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



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**Our team of consultants will assist you**  
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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.

# 08



## 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 **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.

All KERN 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

Readability [d] g	Weighing capacity [Max] kg	Model KERN	Price excl. of VAT ex works €	Page						
0,5   1	1,5   3	RPB 3K3DM	275,-	76	1	●	●	●	●	●
0,5   1	1,5   3	RPB 3K3DHM	300,-	76	1	●	●	●	●	●
1   2	3   6	RIB 6K-3M	280,-	75	1	●	●	●	●	●
1   2	3   6	RIB 6K-3HM	325,-	75	1	●	●	●	●	●
1   2	3   6	RPB 6K1DM	285,-	76	1	●	●	●	●	●
1   2	3   6	RPB 6K1DHM	300,-	76	1	●	●	●	●	●
1   2	3   6	RFE 6K3M	380,-	77	1	●	●	●	●	●
2   5	6   15	RIB 10K-3M	280,-	75	1	●	●	●	●	●
2   5	6   15	RIB 10K-3HM	325,-	75	1	●	●	●	●	●
2   5	6   15	RPB 15K2DM	285,-	76	1	●	●	●	●	●
2   5	6   15	RPB 15K2DHM	300,-	76	1	●	●	●	●	●
2   5	6   15	RFE 15K3M	380,-	77	1	●	●	●	●	●
5   10	15   30	RIB 30K-2M	280,-	75	1	●	●	●	●	●
5   10	15   30	RIB 30K-2HM	325,-	75	1	●	●	●	●	●
5   10	15   30	RPB 30K5DM	285,-	76	1	●	●	●	●	●
5   10	15   30	RPB 30K5DHM	300,-	76	1	●	●	●	●	●
5   10	15   30	RFE 30K3M	380,-	77	1	●	●	●	●	●

For an explanation on the pictos, see front flap

● = 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. 405 mm
- **2** KERN RIB-M: Second display on the back of the balance
- Three displays for weight display (verifiable), unit price, total price
- 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
- Weighing plate dimensions, stainless steel, WxD 294x225 mm
- Overall dimensions WxDxH  
KERN RIB-M: 325x340x115 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, **€ 44,-**
- Internal rechargeable battery pack, operating time up to 80 h without backlight, charging time approx. 14 h, KERN GAB-A04, **€ 42,-**
- **3** Tare pan made from stainless steel, overall dimensions WxDxH, 400x300x45 mm, KERN RFS-A02, **€ 75,-**

### 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	Readability	Verification value	Minimal load	Price excl. of VAT ex works €	Verification KERN €	Option DAkKS Calibr. Certificate DAkKS KERN €
	[Max] kg	[d] g	[e] g	[Min] g			
Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range							
<b>RIB 6K-3M</b>	3   6	1   2	1   2	20   40	<b>280,-</b>	965-228	80,- 963-128 112,-
<b>RIB 10K-3M</b>	6   15	2   5	2   5	40   100	<b>280,-</b>	965-228	80,- 963-128 112,-
<b>RIB 30K-2M</b>	15   30	5   10	5   10	100   200	<b>280,-</b>	965-228	80,- 963-128 112,-
with elevated display							
<b>RIB 6K-3HM</b>	3   6	1   2	1   2	20   40	<b>325,-</b>	965-228	80,- 963-128 112,-
<b>RIB 10K-3HM</b>	6   15	2   5	2   5	40   100	<b>325,-</b>	965-228	80,- 963-128 112,-
<b>RIB 30K-2HM</b>	15   30	5   10	5   10	100   200	<b>325,-</b>	965-228	80,- 963-128 112,-

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 10 item prices - now with Checkout-Dialogue 06

### 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
- **2** KERN RPB-M: Second display on the back 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
- Weighing plate dimensions, stainless steel, W×D 204×263 mm
- Overall dimensions W×D×H  
KERN RPB-M: 283×318×100,3 mm  
KERN RPB-HM: 283×375,5×486,8 mm
- Net weight  
KERN RPB-M: approx. 2,8 kg  
KERN RPB-HM: approx. 3,2 kg
- Permissible ambient temperature -10 °C/40 °C

**4** 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.

### Accessories

- Protective working cover, scope of delivery 5 items, KERN RFC-A02S05, **€ 44,-**
- Internal rechargeable battery pack, operating time up to 60 h without backlight, charging time approx. 12 h, KERN WTB-A01N, **€ 38,-**
- Tare pan made from stainless steel, overall dimensions W×D×H, 400×300×45 mm, KERN RFS-A02, **€ 75,-**
- 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.

STANDARD						OPTION		FACTORY	

Model	Weighing capacity		Readability		Verification value		Minimal load		Price excl. of VAT ex works €	Option			
	[Max] kg	[Min] g	[d] g	[e] g	[e] g	[Min] g	Verification  KERN	€		DAKKS KERN	Calibr.	Certificate €	
Multi-division balance, with increasing or decreasing load, it switches automatically to the next largest or smallest weighing range [Max] and readout [d].													
<b>RPB 3K3DM</b>	1,5   3		0,5   1		0,5   1	10			<b>275,-</b>	965-227	62,-	963-127	93,-
<b>RPB 6K1DM</b>	3   6		1   2		1   2	20			<b>285,-</b>	965-228	80,-	963-128	112,-
<b>RPB 15K2DM</b>	6   15		2   5		2   5	40			<b>285,-</b>	965-228	80,-	963-128	112,-
<b>RPB 30K5DM</b>	15   30		5   10		5   10	100			<b>285,-</b>	965-228	80,-	963-128	112,-
with elevated display													
<b>RPB 3K3DHM</b>	1,5   3		0,5   1		0,5   1	10			<b>300,-</b>	965-227	62,-	963-127	93,-
<b>RPB 6K1DHM</b>	3   6		1   2		1   2	20			<b>300,-</b>	965-228	80,-	963-128	112,-
<b>RPB 15K2DHM</b>	6   15		2   5		2   5	40			<b>300,-</b>	965-228	80,-	963-128	112,-
<b>RPB 30K5DHM</b>	15   30		5   10		5   10	100			<b>300,-</b>	965-228	80,-	963-128	112,-

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 back 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. Height of stand 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 €/kg to €/100 g
- Auto-clear-key: Unit price entry is automatically set to zero when scale is unloaded
- Up to three headers and footers of the printout can be programmed directly on the balance
- High mobility: thanks to rechargeable battery operation (optional), compact, light-weight construction, it is suitable for the use in several locations
- Recessed grips on the underside of the scale for easy transportation

Application examples

- cafeterias, restaurants, Motorway service stations
- retail shops
- weekly markets
- farm shops
- pick your own fruit and vegetable sales

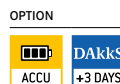
**Note:** Official verification is mandatory for commercial trade.

Technical data

- Large backlit LCD displays, digit height 20 mm
- Weighing plate dimensions, stainless steel, WxD 230x300 mm
- Overall dimensions WxDxH 320x450x130 mm 320x450x410 mm (incl. stand)
- Net weight approx. 4,2 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Affordable universal label printer to print out weights on thermal labels. ASCII-capable. Convenient Auto-Forward function to automatically jump from label to label (only with KERN standard labels), KERN YKE-01, € 790,-
- Internal rechargeable battery pack, operating time up to 30 h with backlight, charging time approx. 12 h, KERN GAB-A04, € 42,-



Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Price excl. of VAT ex works €	Option		
						Verification KERN €	DAKKS KERN €	Calibr. Certificate €
Multi-division balance, with increasing or decreasing load, it switches automatically to the next largest or smallest weighing range [Max] and readout [d].								
<b>RFE 6K3M</b>	3   6	1   2	1   2	20	<b>380,-</b>	965-228 80,-	963-128	112,-
<b>RFE 15K3M</b>	6   15	2   5	2   5	40	<b>380,-</b>	965-228 80,-	963-128	112,-
<b>RFE 30K3M</b>	15   30	5   10	5   10	100	<b>380,-</b>	965-228 80,-	963-128	112,-

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.

# KERN & SOHN – The wide range of product champion that is situated in the Swabian Alb

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