PRICE COMPUTING SCALES

2020
KERN Pictograms

**Internal adjusting:** Quick setting up of the balance’s accuracy with internal adjusting weight (motor-driven)

**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

**Protection against dust and water splashes IPx:** The type of protection is shown in the pictogram. For details see page 62

**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 specified for each device

**Rechargeable battery pack:** Rechargeable set

**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

**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

**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

**Easy Touch:** Suitable for the connection, data transmission and control through PC, tablet or smartphone

**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 223

**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

**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

**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 at the touch of a key. See balance model. Please refer to KERN’s website for more details

**Weighing with tolerance range:** (Checkweighing) Upper and lower limiting values are programmable 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

**Weighing principle:** Strain gauges

**GB, USA or AUS on request**

**GB, USA or AUS version available**

**Mains adapter:** A) EU, CH, GB
B) EU, CH, GB, USA
C) EU, CH, GB, USA, AUS

**Panel shipment:**

**Pallet shipment:**

**Universal mains adapter:** with universal input and optional input socket adapters for A) EU, CH, GB
B) EU, CH, GB, USA
C) EU, CH, GB, USA, AUS

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

**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**

**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

**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

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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

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

E-mail order
info@kern-sohn.com

Fax order
+49 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.

KERN RPB 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

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For an explanation on the pictograms, see front flap

- ○ = standard
- ● = option

Lisa Haiß
Product specialist Price computing scales

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Fax +49 7433 9933-29219
lisa.haiss@kern-sohn.com

from € 205,-

- Intuitive operation
- Little space requirements
- Mains operation and rechargeable battery pack possible
- Second display which can be fitted on the back of the balance
Price computing scale KERN RIB

### Model Information

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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.

### Features

- **Protective working cover** included with delivery
- 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

### Technical data

- **Dual-range balance switches** automatically to the next largest weighing capacity [Max] and readability [d]
- 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.

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

- **NEW:** modern, ergonomic design and a housing which is even more compact, supporting efficient operation and saving space
- **KERN RPB-HM:** 
  - Elevated display backlit, revolving on column, height of stand approx. 480 mm, must be ordered at purchase
- **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
- **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 WxD:H: 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,-
- **Tare pan made of stainless steel:** ideal for weighing loose small parts, fruit, vegetables etc., WxD:H 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

### Price computing scales

- **www.kern-sohn.com** · **Order hotline** +49 7433 9933-0

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### Table: Features

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<th>Model</th>
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<th>Readability</th>
<th>Verification value</th>
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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.
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, check-weighter, 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 PLL, which enables this value to be stored in a legally binding way in accordance with the Weights and Measures Act
- Second display on the rear of the balance
- 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
- 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
- Heads 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, W×D 230×300 mm
- Overall dimensions W×D×H 320×450×130 mm
- Net weight approx. 4,2 kg
- Permissible ambient temperature -10 °C/40 °C

Features

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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

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,-
#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 grip 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!
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Balances, Test weights, Microscopes,
DAkkS calibration laboratory
Ziegelei 1
72336 Balingen
Germany

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www.kern-sohn.com

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.

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

175

175

175

2016

2016

2016