

IoT-Line Bench scale KERN FKB



High resolution bench scale with large weighing range and robust stainless steel weighing plate

### Features

- Thanks to the high resolution of up to 360.000 points it is ideal for high-precision weighing in the industrial field
- Robust plastic die-cast housing: maintains the stability, protects the weighing technology elements and is robust enough to cope with everyday use
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- Industry 4.0: The integrated KERN Universal Port (KUP) allows the connection of external KUP interface adapters such as RS-232, USB,

Bluetooth, WLAN, Analogue, Ethernet etc. The outstanding advantage here is that the KUP interface adapters are simply plugged in, i.e. retrofitting interfaces is conveniently possible without opening the scale housing or complicated installation. The interface adapters enable convenient transmission of weighing data to networks, PCs, smartphones, tablets, laptops, printers etc. In addition, control commands and data inputs can also be sent to the scale via the connected devices. Tip: with the KERN YKUP-13 extension box, up to three KUP interface adapters can be operated in parallel on the scale

- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers. for details see page 8/9
- Freely programmable weighing unit, e.g. display direct in special units such as length of wire g/m, surface weight g/m<sup>2</sup>, or else
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard
- Protective working cover included with delivery

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### Technical data

- Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, WxD 340×240 mm
- Overall dimensions W×D×H 350×390×120 mm
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 20 h
- Net weight approx. 7 kg
- Permissible ambient temperature -10 °C/40 °C

### Accessories

- Protective working cover, scope of delivery 5 items, KERN FKB-A02S05
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01
- External data interface USB, Interface cable included, KERN YKUP-03
- External data interface RS-232, Interface cable included, KERN YKUP-01
- Bluetooth interface adapter, KERN YKUP-06
- WiFi interface adapter, KERN YKUP-05
- External data interface Ethernet, KERN YKUP-04
- Extension-Box, KERN YKUP-13
- Tare pan made from stainless steel, overall dimensions W×D×H, 400×300×45 mm, KERN RFS-A02
- Further details, plenty of further accessories and suitable printers see *Accessories*

Particularly practical: thanks to the large weighing ranges and compact dimensions, you can accurately weigh heavy loads in the most restricted of spaces. Useful for determining very small weight differences, such as, for example, gas wastage, abrasion of mechanical parts, rock samples, minerals, druses, silver etc.

#### STANDARD



#### OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Smallest part weight [Normal] g/piece	Resolution Points	Option DAkKS Calibr. Certificate DAkKS KERN
<b>KERN</b>							
<b>FKB 6K0.02</b>	6	0,02	0,04	± 0,2	0,2	300.000	963-128
<b>FKB 8K0.05</b>	8	0,05	0,05	± 0,5	0,5	300.000	963-128
<b>FKB 8K0.1</b>	8	0,1	0,05	± 0,5	0,5	160.000	963-128
<b>FKB 15K0.5</b>	15	0,5	0,1	± 0,3	10	320.000	963-128
<b>FKB 16K0.05</b>	16	0,05	0,1	± 1	0,5	80.000	963-128
<b>FKB 16K0.1</b>	16	0,1	0,1	± 1	1	160.000	963-128
<b>FKB 30K1</b>	30	1	0,2	± 2	20	360.000	963-128
<b>FKB 36K0.1</b>	36	0,1	0,2	± 2	1	180.000	963-128
<b>FKB 36K0.2</b>	36	0,2	0,5	± 5	2	325.000	963-128
<b>FKB 65K0.2</b>	65	0,2	1	± 10	2	30.000	963-129
<b>FKB 65K1</b>	65	1	1	± 10	20	65.000	963-129

- 
**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.
- 
**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.
- 
**KERN Universal Port (KUP):**  
 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
- 
**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
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**Interface for second balance:**  
 For direct connection of a second balance
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**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
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**GLP/ISO log:**  
 The balance displays weight, date and time, independent of a printer connection
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**GLP/ISO log:**  
 With weight, date and time. Only with KERN printers.
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**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
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**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
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**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.
- 
**Suspended weighing:**  
 Load support with hook on the underside of the balance
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**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
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**Weighing principle: Tuning fork**  
 A resonating body is electromagnetically excited, causing it to oscillate
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**Weighing principle: Electromagnetic force compensation**  
 Coil inside a permanent magnet. For the most accurate weighings
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**Weighing principle: Single cell technology:**  
 Advanced version of the force compensation principle with the highest level of precision
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**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

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