

IoT-Line Bench Scale KERN FCB



The new FCB: Checkweighing and portioning scale with up to three interfaces

Features

- Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- Compact size, practical for small spaces
- Industry 4.0: Data and control commands can be exchanged through the KERN Universal Port using one interface, which can be connected to the housing, or through three parallel interfaces using the KUP Extension box. The following interfaces are available as an option: RS-232, USB, Ethernet, WiFi, Bluetooth
- Data query and remote control of the balance using a computer or CRM/ERP systems using the KERN Communication Protocol
- For further information on KUP and KCP see page 20/21
- High mobility: Thanks to battery operation/ rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department, etc.)

- Weighing with tolerance range (checkweighing): Input of two upper and two lower limit values through four arrow keys. An audible and visual signal assists with the portioning, dispensing or grading
- Summation of weight values
- Protective working cover included with delivery

Technical data

- Backlit LCD display, digit height 24 mm
- Dimensions weighing surface, stainless steel, WxD 252x225 mm
- Overall dimensions WxDxH 322x267x91 mm
- Optional battery operation, 4x1.5 V AA not included in scope of delivery, operating time up to 20 h
- Net weight approx. 3,8 kg
- Permissible ambient temperature 0 °C/40 °C

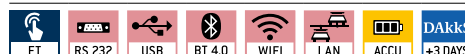
Accessories

- Protective working cover, scope of delivery 5 items, KERN YBA-A14S05
- 1** Signal lamp for visual support of weighing with tolerance range. connection is only possible in combination with KUP-01 (RS 232 interface), KERN CFS-A03
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01
- External data interface RS-232, interface cable included, KERN KUP-01
- External data interface USB, interface cable included, KERN KUP-03
- Interface adapter Ethernet, KERN KUP-04
- Interface adapter WiFi, KERN KUP-05
- Bluetooth interface adapter, KERN KUP-06
- 2** Extension box for connecting up to three interfaces in parallel, KERN KUP-13
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD






























OPTION



Model		Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Smallest part weight (Normal) g/piece	Resolution Points	Options DAKKS Calibr. Certificate DAKKS KERN
KERN								
FCB 6K-5	NEW	6	0,05	0,05	± 0,15	0,5	120.000	963-128
FCB 8K0.1	NEW	8	0,1	0,1	± 0,3	1	80.000	963-128
FCB 12K-4	NEW	12	0,1	0,1	± 0,3	1	120.000	963-128
FCB 12K1	NEW	12	1	1	± 3	10	12.000	963-128
FCB 30K-4	NEW	30	0,2	0,2	± 0,6	2	150.000	963-128
FCB 30K1	NEW	30	1	1	± 3	10	30.000	963-128

NEW New model

 Internal adjusting Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)	 Interface for second balance For direct connection of a second balance	 Hold function (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value	 Conformity Assessment The time required for conformity assessment is specified in the pictogram
 Adjusting program CAL For quick setting up of the balance's accuracy. External adjusting weight required	 Network interface For connecting the scale to an Ethernet network	 Protection against dust and water splashes IPxx The type of protection is shown in the pictogram	 DAkkS calibration possible (DKD) The time required for DAkkS calibration is shown in days in the pictogram
 EasyTouch Suitable for the connection, data transmission and control through PC or tablet	 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	 Suspended weighing Load support with hook on the underside of the balance	 Factory calibration (ISO) The time required for Factory calibration is shown in days in the pictogram
 Memory Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	 GLP/ISO log intern The balance displays weight, date and time, independent of a printer connection	 Battery operation Ready for battery operation. The battery type is specified for each device	 Package shipment The time required for internal shipping preparations is shown in days in the pictogram
 Alibi memory Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.	 GLP/ISO log Printer With weight, date and time. Only with KERN printers.	 Rechargeable battery pack Rechargeable set	 Pallet shipment The time required for internal shipping preparations is shown in days in the pictogram
 KERN Universal Port (KUP) allows the connection of external KUP interface adapters, e.g. RS-232, RS-485, SB, Bluetooth, WIFI, Analogue, Ethernet etc. for the exchange of data and control commands, without installation effort	 Piece counting Reference quantities selectable. Display can be switched from piece to weight	 Universal plug-in power supply with universal input and optional input socket adapters for A) EU, CH, GB B) EU, CH, GB, US C) EU, CH, GB, US, AUS	
 RS-232 Data interface To connect the balance to a printer, PC or network	 Recipe level A The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out	 Plug-in power supply 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available	
 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	 Recipe level B Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display	 Integrated power supply unit Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request	
 USB Data interface To connect the balance to a printer, PC or other peripherals	 Totalising level A The weights of similar items can be added together and the total can be printed out	 Weighing principle Strain gauges Electrical resistor on an elastic deforming body	
 Bluetooth* Data interface To transfer data from the balance to a printer, PC or other peripherals	 Percentage determination Determining the deviation in % from the target value (100 %)	 Weighing principle Tuning fork A resonating body is electromagnetically excited, causing it to oscillate	
 WIFI Data interface To transfer data from the balance to a printer, PC or other peripherals	 Weighing units Can be switched to e.g. nonmetric units. See balance model. Please refer to KERN's website for more details	 Weighing principle Electromagnetic force compensation Coil inside a permanent magnet. For the most accurate weighings	
 Control outputs (optocoupler, digital I/O) To connect relays, signal lamps, valves, etc.	 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	 Weighing principle Single cell technology Advanced version of the force compensation principle with the highest level of precision	
 Analogue interface to connect a suitable peripheral device for analogue processing of the measurements			



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