

Bench scale KERN FKB · FKB-M



Large, high resolution bench scale, also with EC type approval [M]

Features

- Thanks to the high resolution of up to 360.000 points it is ideal for high-precision weighing in the industrial field. It is also available in a version with EC type approval class II for applications which require verification (FKB-M)
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- not for FKB-M: **Freely programmable weighing unit**, e.g. direct display in special units such as length of wire g/m, surface weight g/m², or else
- **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, e.g. gas wastage, abrasion of mechanical parts, rock samples, minerals, druses, silver etc.

Technical data

- Backlit LCD display, digit height 18 mm
- Weighing plate dimensions, stainless steel, WxD 340x240 mm
- Dimensions housing WxDxH 350x390x120 mm
- Optional battery operation, batteries 6 x 1.5 V Size C, not standard, operating time up to 40 h
- Net weight approx. 6,5 kg
- Permissible ambient temperature
KERN FKB: 10 °C / 40 °C
KERN FKB-M: 10 °C / 30 °C



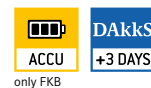
Accessories

- **Protective working cover** over keyboard and housing, standard, can be retrofitted, KERN FKB-A02
- only FKB: **Rechargeable battery pack external**, operating time up to 25 hours with backlight, charging time approx. 10 h, KERN KS-A01
- **Tare pan made from stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., WxDxH 370x240x20 mm, for details see page 161, KERN RFS-A02
- **Suitable printers** an extensive accessories range, see page 157 ff.

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Reproducibility g	Linearity g	Min. piece weight [Counting] g/piece	Options				
							Verification		DAkkS Calibr. Certificate		
							MII KERN		DAkkS KERN		
FKB 6K0.02	6	0,02	-	0,04	± 0,1	0,02	-		963-128		
FKB 8K0.05	8	0,05	-	0,05	± 0,15	0,05	-		963-128		
FKB 16K0.05	16	0,05	-	0,1	± 0,25	0,05	-		963-128		
FKB 16K0.1	16	0,1	-	0,1	± 0,3	0,1	-		963-128		
FKB 36K0.1	36	0,1	-	0,2	± 0,5	0,1	-		963-128		
FKB 36K0.2	36	0,2	-	0,2	± 0,6	0,2	-		963-128		
FKB 65K0.2	65	0,2	-	0,4	± 1	0,2	-		963-129		
FKB 65K0.5	65	0,5	-	0,5	± 1,5	0,5	-		963-129		
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.											
FKB 8K0.1M	8	0,1	1	0,1	± 0,3	0,1		965-217		963-128	
FKB 65K1M	65	1	10	1	± 2	1		965-218		963-129	

KERN Pictograms

 Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motordriven).	 Recipe level A: Separate memory for the weight of the tare container and the recipe ingredients (net total).	 Suspended weighing: Load support with hook on the underside of the balance.
 Adjusting program CAL: For quick setting up of the balance's accuracy. External adjusting weight required.	 Recipe level B: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display.	 Battery operation: Ready for battery operation. The battery type is specified for each device.
 Memory: Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	 Recipe level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display. Additional convenient functions, such as barcode and back calculation functions.	 Rechargeable battery pack: Rechargeable set.
 Data interface RS-232: To connect the balance to a printer, PC or network.	 Totalising level A: The weights of similar items can be added together and the total can be printed out.	 Mains adapter: 230V/50Hz in standard version for EU. On request GB, AUS or USA version available.
 RS-485 data interface: To connect the balance to a printer, PC or other peripherals. High tolerance against electromagnetic disturbance.	 Totalising level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display. Additional convenient functions, such as barcode and back calculation.	 Power supply: Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request.
 USB data interface: To connect the balance to a printer, PC or other peripherals.	 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.	 Tuning fork principle: A resonating body is electromagnetically excited, causing it to oscillate.	
 WLAN 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 %).	 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 units: Can be switched to e.g. non-metric units at the touch of a key. See balance model. Please refer to KERN's website for more details.	 Single cell technology: Advanced version of the force compensation principle with the highest level of precision.
 Interface for second balance: For direct connection of a second balance.	 Weighing with tolerance range: Upper and lower limiting values can be programmed individually for e.g. dosing, sorting and portioning.	 Verification possible: The time required for verification is specified in the pictogram.
 Network interface: For connecting the scale to an Ethernet network. With KERN products you can use a universal RS-232/LAN converter.	 Vibration-free weighing: (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value.	 DAkkS calibration possible: The time required for DAkkS calibration is shown in days in the pictogram.
 GLP/ISO log: The balance displays the weight, date and time, regardless of a printer connection.	 Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram. For details see the glossary.	 Package shipment: The time required for internal shipping preparations is shown in days in the pictogram.
 GLP/ISO log: With weight, date and time. Only with KERN printers, see "Accessories"	 ATEX explosion protection: Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device.	 Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram.
 Piece counting: Reference quantities selectable. Display can be switched from piece to weight.	 Stainless steel: The balance is protected against corrosion.	 Warranty: The warranty period is shown in the pictogram.

Precision is our business

To ensure the high precision of your balance KERN offers you the the appropriate test weight in the international OIML error limit classes E1-M3 from 1 mg - 2000 kg. In combination with a DAkkS calibration certificate the best pre-requisite for proper balance calibration.

The KERN DAkkS calibration laboratory today is one of the most modern and best-equipped DAkkS calibration laboratories for balances, test weights and force-measurement in Europe.

Your KERN specialist dealer:

Thanks to the high level of automation, we can carry out DAkkS calibration of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

Range of services:

- DAkkS calibration of balances with a maximum load of up to 6 t
- DAkkS calibration of weights in the range of 1 mg - 500 kg
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DAkkS calibration certificates in the following languages D, GB, F, I, E, NL