

Bench scales KERN FKB · FKB-M



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

Features	Technical data	Accessories
<ul style="list-style-type: none">• PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels• Precise counting: The automatic optimisation of reference weight gradually improves the average value of the piece weight• not for FKB-M: Freely programmable weighing unit, e.g. display directly in special units such as length of thread g/m, paper weight g/m², or similar• Particularly practical: thanks to the large weighing ranges and compact dimensions, you can weigh heavy loads in the most restricted of spaces	<ul style="list-style-type: none">• Backlit LCD display, digit height 18 mm• Dimensions of weighing plate (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	<ul style="list-style-type: none">• Protective working cover over keyboard and housing, standard, can be reordered, KERN FKB-A02• only FKB: Rechargeable battery pack external, operating time up to 50 h without backlight, charging time approx. 10 h, KERN KS-A01• Tare pan made from stainless steel, details see page 142, KERN RFS-A02• Suitable printers see page 138

STANDARD

CAL EXT

RS 232

GLP

PROTOCOL

PCS

RECIPE

PERCENT

UNIT

MOVE

UNDER

BATT

230 V

DMS

1 DAY

3 YEARS WARRANTY

OPTION

ACCU

DKD +3 DAYS

FACTORY

M +7 DAYS

only FKB-M

Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Repro-ducibility g	Linearity g	Min. piece weight [Counting] g/piece	Options			
							Verification		DKD Calibr. Certificate	
							M II KERN		DKD KERN	
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 (CAL): Quick setting of the balance's accuracy with internal adjusting weight (motordriven).



Adjusting program (CAL): For quick setting of the balance's accuracy. External adjusting weight required.



Memory: Balance contains memories, e.g. for item data, weighing data, tare weights etc. PLU.



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 peripheral devices. High tolerance against electromagnetic disturbance.



USB data interface: To connect the balance to a printer, PC or other peripheral devices.



Bluetooth data interface: To transfer data from the balance to a printer, PC or other peripheral devices.



Control outputs (optocoupler, digital I/O): to connect relays, signal lamps, valves, etc.



Interface for second balance: for direct connection of a second balance.



Network interface: For connecting the scale to an Ethernet network. With KERN products you can also use a universal RS-232/LAN converter.



GLP/ISO record keeping: of weighing data with date, time and identification-no. Only with printers from KERN.



Piece counting: Reference quantities selectable. Display can be switched from piece to weight.



Recipe level A: Separate memory for the weight of the tare container and the recipe ingredients (net total).



Recipe level B: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through displays.



Recipe level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through displays. Additional convenient functions, such as bar-code and back calculation functions.



Percentage determination: Determining the deviation in % from the target value (100%).



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.



Weighing with tolerance range: Upper and lower limiting can be programmed individually, e.g. dosing/sorting and portioning.



Vibration-free weighing: (Animal weighing program) Vibrations are filtered out so that a stable weight is obtained.



Spray and dust protection IPxx: The type of protection is shown by the pictogram. For details see the glossary.



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.



Mains adapter: 230V/50Hz in standard version for Germany. On request GB, AUS or USA version.



Power supply: integrated in balance. 230V/50Hz in Germany. More standards e. g. GB, AUS, USA on request.



Strain gauges: Electrical resistor on an elastic deforming body.



Tuning fork principle: A resonating body is electromagnetically excited, causing it to oscillate.



Electromagnetic force compensation: Coil in a permanent magnet. For the most accurate weighings.



Single cell technology: Advanced version of the force compensation principle with the highest level of precision.



Verification possible: The time required for verification is specified in the pictogram.



DKD calibration possible: The time required for DKD calibration is shown in days in the pictogram.



Package shipment: The time required to manufacture the product internally is shown in days in the pictogram.



Pallet shipment: The time required to manufacture the product internally is shown in days in the pictogram.



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 package for your balance, consisting of the test weight, box and DKD certificate, as proof of its accuracy ... the best pre-requisite for proper balance calibration.

In the extensive KERN test weight range, you will find test weights in the international OIML error limit classes: E1, E2, F1, F2, M1, M2, M3 with weights from 1 mg - 2000 kg.

The KERN DKD calibration laboratory for electronic balances and weights has been accredited by DKD since 1994 and today is one of the most modern and best-equipped DKD calibration laboratories for balances, test weights and force-measurement in Europe.

(DKD = German Calibration Service)

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

Range of services:

- DKD calibration of balances with a maximum load of up to 6 t
- DKD 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
- DKD calibration certificates in the following languages
D, GB, F, I, E, NL, PL

Do you have questions about your scale, the corresponding test weight or the calibration service? Your KERN specialist dealer will be pleased to assist you.

Your KERN specialist dealer: