

Display devices KERN KFB-TM · KFS-TM


1 KERN KFB-TM

Display device with large digits
– easy to read

2 KERN KFS-TM

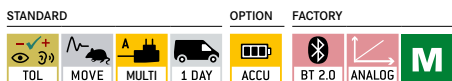
Professional indicator with 3 displays,
also with EC type approval [M]

Tip

to see what options are offered by this display device, please see the KERN platform scale IFB on page 103

Tip

to see what options are offered by this display device, please see the KERN counting scale IFS on page 85

STANDARD

STANDARD


* not possible in combination with verification

** not possible in combination with signal lamp

Features	Model KERN 1 KFB-TM	Model KERN 2 KERN KFS-TM
Display (segments)	5 + ½ digits	6 digits
EC type approval	yes	yes
Resolution verifiable	6000 e	3000 e
Resolution non verifiable	30000 d	60000 d
Weighing capacities	≤ 2	≤ 2
Weighing units	kg, lb	kg, g
Readability	1, 2, 5, 10, n	1, 2, 5, 10, n
Piece counting with reference	10, 20, 50, 100, 200	n
Display, digit height	Backlit LCD display, 52 mm	Backlit LCD displays, 13/16,5 mm
Additional functions	Totalising, HOLD function	99 item memories, totalising, printing of date and time
Strain gauge load cells	87 – 1600 Ω	87 – 1600 Ω
Linearisation	3 points	4 points
Input voltage	12 V, 500 mA	12 V, 500 mA
Permissible ambient temperature	-10 °C/40 °C	0 °C/40 °C
Interface RS-232	yes	yes
2. Interface RS-232, separate Y cable	CFS-A04	CFS-A04
Interface RS-485	–	–
Interface USB	–	–
Interface Bluetooth	KERN KFB-A03, see page 103	–
Analogue module	0–10V: KERN KFB-A04 4–20 mA: KERN KFB-A05 see page 103	–
Signal lamp	CFS-A03	CFS-A03
Foot switch	–	–
Stand	BFS-A07, see page 103	BFS-A07, see page 85
Benchtop stand for display device/wall mount	yes/yes	yes/yes
Protective working cover	KFB-A02S05, see page 103,	KFB-A02S05, see page 85,
Rechargeable battery pack	KFB-A01, see page 103,	KFS-A01, see page 85,
Operating/charging time	up to 35 h/12 h	up to 40 h/12 h
Dimensions Housing W×D×H	250×160×65 mm	260×150×65 mm
Net weight	1,2 kg	1,5 kg

Pictograms

Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)	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
Adjusting program CAL: For quick setting up of the balance's accuracy. External adjusting weight required		Battery operation: Ready for battery operation. The battery type is specified for each device
Easy Touch: Suitable for the connection, data transmission and control through PC, tablet or smartphone.	GLP/ISO log: The balance displays serial number, user ID, weight, date and time, regardless of a printer connection	Rechargeable battery pack: Rechargeable set
Memory: Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	GLP/ISO log: With weight, date and time. Only with KERN printers	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
Alibi memory: Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard	Piece counting: Reference quantities selectable. Display can be switched from piece to weight	Mains adapter: 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available
Data interface RS-232: 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	Power supply: Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request
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	Weighing principle: Strain gauges: Electrical resistor on an elastic deforming body
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: Tuning fork: A resonating body is electromagnetically excited, causing it to oscillate
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: Electromagnetic force compensation: Coil inside a permanent magnet. For the most accurate weighings
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 at the touch of a key. See balance model. Please refer to KERN's website for more details	Weighing principle: Single cell technology: Advanced version of the force compensation principle with the highest level of precision
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	Verification possible: The time required for verification is specified in the pictogram
Analogue interface: to connect a suitable peripheral device for analogue processing of the measurements	Hold function: (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value	DAKkS calibration possible (DKD): The time required for DAKkS calibration is shown in days in the pictogram
Interface for second balance: For direct connection of a second balance	Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram	Factory calibration (ISO): The time required for Factory calibration is shown in days in the pictogram
Network interface: For connecting the scale to an Ethernet network		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 – 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 – 2500 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.

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 50 t
- DAKkS calibration of weights in the range of 1 mg – 2500 kg
- Volume determination and measuring of magnetic susceptibility (magnetic characteristics) for test weights
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DAKkS calibration certificates in the following languages DE, EN, FR, IT, ES, NL, PL
- Conformity evaluation and reverification of balances and test weights

Your KERN specialist dealer: