



KERN KFB-TM Professional Indicator with 3 Displays Owner's Manual

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KERN KFB-TM Professional Indicator with 3 Displays



Display devices KERN KFB-TM KFS-TM

KERN KFB-TM

Display device with large digits – easy to read and optional analogue output for controlling systems (PLC) etc

Tip

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

KERN KFS-TM

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

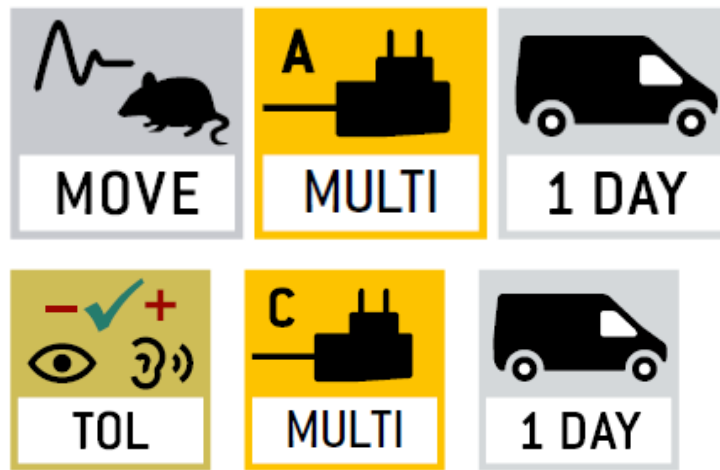
Tip

to see what options are offered by this display device, please see the KERN counting scale IFS on page 78

STANDARD

 CAL EXT	 RS 232	 KCP PROTOCOL	 GLP PRINTER	 PCS	 SUM	 UNIT	 TOL
 CAL EXT	 MEMORY	 RS 232	 KCP PROTOCOL	 GLP INTERN	 PCS	 SUM	 UNIT

STANDARD



OPTION



FACTORY



- not possible in combination with verification. When installing the Bluetooth data interface, the RS-232 data interface can no longer be used
- not possible in combination with signal lamp. When installing the analogue module, the RS-232 data interface can no longer be used

Features

Features	Model KERN	Model KERN
	1 KFB-TM	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, Integrated KERN Communication Protocol (KCP), ideal for connecting an Merchandise Management or ERP system, Compatible with the KERN EasyTouch App	99 item memories, totalising, printing of date and time, Integrated KERN Communication Protocol (KCP), ideal for connecting an Merchandise Management or ERP system, Compatible with the KERN EasyTouch App
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 97	–
Analogue module	0–10V: KERN KFB-A04 4–20 mA: KERN KFB-A05 see page 97	–
Signal lamp	CFS-A03	CFS-A03
Foot switch	–	–
Stand	BFS-A07, see page 97	BFS-A07, see page 78
Benchtop stand for display device/wall mount	yes/yes	yes/yes

Protective working cover	KFB-A02S05, see page 97,	KFB-A02S05, see page 78,
Rechargeable battery pack	KFB-A01, see page 97,	KFB-A01, see page 78,
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 (motor driven)



- 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.



- 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 datatransfer 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



- Interface for second balance:

For direct connection of a second balance

- 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



- GLP/ISO log:

The balance displays serial number, user ID, weight, date and time, regardless of a printer connection



- GLP/ISO log:

With weight, date and time. Only with KERN printers.



- 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



- 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

- 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



- 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



- Weighing principle: Tuning fork:

A resonating body is electromagnetically excited, causing it to oscillate

- Weighing principle: Electromagnetic force compensation:

Coil inside a permanent magnet. For the most accurate weighings



Weighing principle: 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



- 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



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

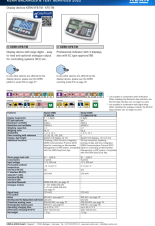
- Database-supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DAkkS calibration certificates in the following languages DE, EN, FR, IT, ES, NL, PL
- Conformity evaluation and verification of balances and test weights

Your KERN specialist dealer:

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Documents / Resources

	<p>KERN KFB-TM Professional Indicator with 3 Displays [pdf] Owner's Manual KFB-TM Professional Indicator with 3 Displays, KFB-TM, Professional Indicator with 3 Displays, Indicator with 3 Displays</p>
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