

Display devices KERN KFB-TM · KFS-TM · KXG-TM



1 KERN KFB-TM

Display device with large digits – easy to read

2 KERN KFS-TM

Professional indicator with 3 displays, and with EC type approval

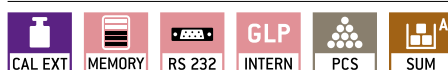
3 KERN KXG-TM

IP68 display device with integrated power supply

STANDARD



STANDARD



STANDARD



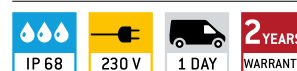
STANDARD



STANDARD



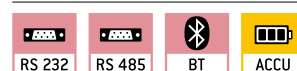
STANDARD



OPTION



OPTION





FACTORY



Features	Model KERN 1 KFB-TM	Model KERN 2 KFS-TM	Model KERN 3 KXG-TM
Display (segments)	5 + ½ digits	6 digits	6 digits
EC type approval	yes	yes	yes
Resolution verifiable	6.000 e	3.000 e	10.000 e
Resolution non verifiable	30.000 d	60.000 d	30.000 d
Weighing ranges	≤ 2	≤ 2	≤ 2
Weighing units	kg	kg	kg
Read-out	1, 2, 5, 10, n	1, 2, 5, ... 10, n	1, 2, 5, 10, 20, 50
Piece counting with reference	10, 20, 50, 100, 200	n	10, 20, 50, 100, 200
Display, digit height	Backlit LCD display, 52 mm	Backlit LCD display, 13/16,5 mm	Backlit LCD display, 55 mm
Additional functions	Totalising, HOLD function	99 item memories, totalising, printing of date and time	PRE-TARE function, totalising, HOLD function, peak hold, zero-point memorisation
Strain gauge load cells	87 – 1600 Ω	87 – 1600 Ω	87 – 1600 Ω
Linearisation	2 points	4 points	2 – 7 points
Input voltage	12 V/500 mA	12 V/500 mA	110 – 230 V AC
Permissible ambient temperature	-10 °C/40 °C (verified)	0 °C/40 °C	-10 °C/40 °C (not verified)
Interface RS-232	yes	yes	KXS-A04
Interface RS-485	-	-	KXS-A01
Interface Bluetooth	-	-	KXS-A02 (Scale → PC)
Foot switch	-	-	KXS-A03
Stand	BFS-A07, see page 125	BFS-A07, see page 125	YKP-A02
Benchtop stand for display device/wall mount	yes/yes	yes/yes	yes/yes
Protective working cover	KFB-A02S05, see page 113	KFB-A02S05, see page 113	-
Rechargeable battery pack	KFB-A01, see page 113	KFS-A01, see page 113	GAB-A04
Operating/charging time	approx. 35 h/12 h	approx. 40 h/12 h	80 h/12 h
Dimensions Housing WxDxH	250x160x58 mm	260x150x65 mm	323x170x80 mm
Net weight	1,5 kg	1,5 kg	2 kg

KERN Pictograms:

 Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motordriven).	 Piece counting: Reference quantities selectable. Display can be switched from piece to weight.	 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 A: Separate memory for the weight of the tare container and the recipe ingredients (net total).	 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 B: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display.	 Rechargeable battery pack: Rechargeable set.
 Alibi memory: Electronic archiving of weighing results, complying with the 2009/23/EC standard.	 Recipe level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, adjustment of recipe when dosages are exceeded, multiplier function, barcode.	 Universal mains adapter: with universal input and optional input socket adapters for A) EU, GB B) EU, GB, CH, USA C) EU, GB, CH, USA, AUS
 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, USA or AUS 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, adjustment of recipe when dosages are exceeded, multiplier function, barcode recognition.	 Power supply: 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.	 Weighing principle: Strain gauge Electrical resistor on an elastic deforming body.	 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.
 WLAN data interface: To transfer data from the balance to a printer, PC or other peripherals.	 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 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: 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.
 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.	 DAKkS calibration possible (DKD): The time required for DAKkS calibration is shown in days 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.	 Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram.	 Package shipment: The time required for internal shipping preparations is shown in days in the pictogram.
 Wireless data transfer: between the weighing unit and the evaluation unit using an integrated radio module.	 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.
 GLP/ISO log: The balance displays the weight, date and time, regardless of a printer connection.	 Stainless steel: The balance is protected against corrosion.	 Warranty: The warranty period is shown in the pictogram.
 GLP/ISO log: With weight, date and time. Only with KERN printers.		

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 - 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.

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
- 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, PL

Your KERN specialist dealer: