

IP protected platform scale KERN SFE



Platform scale with dust and spray protection IP65 and EC type approval [M]

Features

- Robust stainless steel display device, ideal for industrial applications, hygienic and easy to clean
- **Load cells aluminium, silicone-coated. IP65:** Dust and spray protected
- **Stainless steel weighing plate**
- **Painted steel base**
- **Stainless steel display KERN KFE-TM**, for details see page 136. Flexible positioning, e.g. free-standing or mounted to the wall
- **Weighing with tolerance range (checkweighing):** Input of an upper/lower limit value. A visual and audible signal assists with portioning, dispensing or grading

- **Vibration-free weighing:** When the weighing conditions are unstable, a stable weight is calculated determining an average value
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels (only for non-verified models)

Technical data

- Large backlit LCD display, digit height 22 mm
- Weighing plate dimensions, stainless steel, WxDxH
 - A** 300x240x110 mm
 - B** 400x300x128 mm
 - C** 500x400x137 mm
 - D** 650x500x142 mm
- Dimensions of display device WxDxH 195x118x83 mm

- Cable length of display device approx. 1,5 m
- Rechargeable battery pack internal, standard, operating time up to 35 h without backlight, charging time approx. 12 h. Charge status indicator on display
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Tare pan made of stainless steel**, ideal for weighing loose screws, small parts etc., WxDxH 370x240x20 mm, KERN RFS-A02
- **Stand** to elevate display device, can be retrofitted for models with weighing plate size
 - A, B, C, D:** **2** height of stand approx. 200 mm, KERN SFE-A01
 - B, C, D:** **3** height of stand approx. 400 mm, KERN SFE-A02
 - C, D:** **3** height of stand approx. 600 mm, KERN SFE-A03

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Net weight approx. kg	Weighing plate	Options			
							Verification		DAkkS Calibr. Certificate	
							M	KERN	DAkkS	KERN
SFE 6K-3M	6	2	2	40	6,5	A	965-228	963-128		
SFE 15K5IPM	15	5	5	100	6,5	A	965-228	963-128		
SFE 10K-3LM	15	5	5	100	8	B	965-228	963-128		
SFE 30K10IPM	30	10	10	200	6,5	A	965-228	963-128		
SFE 60K20IPM	60	20	20	400	8	B	965-229	963-129		
SFE 60K-2LM	60	20	20	400	14,5	C	965-229	963-129		
SFE 100K-2M	150	50	50	1000	8	B	965-229	963-129		
SFE 100K-2LM	150	50	50	1000	14,5	C	965-229	963-129		
SFE 100K-2XLM	150	50	50	1000	20	D	965-229	963-129		
SFE 300K-1LM	300	100	100	2000	20	D	965-229	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.

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.	 Tuning fork principle: 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 %).	 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.	 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.	 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.
 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. For details see the glossary.	 Package 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.	 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: With weight, date and time. Only with KERN printers, see "Accessories"	 Stainless steel: The balance is protected against corrosion.	 Warranty: The warranty period is shown in the pictogram.
 Piece counting: Reference quantities selectable. Display can be switched from piece to weight.		

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