

IP protected platform scale [KERN SFE\(SK\)](#)



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

Features

- Robust stainless steel display device, ideal for industrial applications, for easy and hygienic cleaning
- **Load cells aluminium, silicone-coated. IP65:** Protected against dust and water splashes
- **Stainless steel weighing plate**
- **Painted steel base**
- **Display device KERN KFE-TM**, details see page 120
- **Flexible positioning of display device:** eg. free-standing or mounted to the wall
- **Weighing with tolerance range (check-weighing):** Input of an upper/lower limit value. A visual and audible signal assists with portion division, dispensing or grading

- **Vibration-free weighing:** at the push of a button, a stable average weight is given when the environmental conditions are unstable or when weighing animals
- **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
- Dimensions of weighing plate, stainless steel, WxDxH
 - A** 300x240x100 mm
 - B** 400x300x118 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 condition indicator on display
- Permissible ambient temperature -10 °C / 40 °C

Accessories

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

STANDARD



OPTION



FACTORY






































Model	Weighing range [Max] kg	Readout [d] g	Verific. value [e] g	Minimum load [Min] g	Net weight approx. kg	Weighing plate	Options			
							Verification		DKD Calibr. Certificate	
							MIII KERN		DKD 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.

New model

KERN Pictograms

 Internal adjusting (CAL): Quick setting 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).	 Rechargeable battery pack: rechargeable set.
 Adjusting program (CAL): For quick setting 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 displays.	 Mains adapter: 230V/50Hz in standard version for Germany. On request GB, AUS or USA version.
 Memory: Balance contains memories, e.g. for item data, weighing data, tare weights etc. PLU.	 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 barcode and back calculation functions.	 Power supply: integrated in balance. 230V/50Hz in Germany. More standards e. g. GB, AUS, USA on request.
 Data interface RS-232: To connect the balance to a printer, PC or network.		 Strain gauges: Electrical resistor on an elastic deforming body.
 RS 485 data interface: To connect the balance to a printer, PC or other peripheral devices. High tolerance against electromagnetic disturbance.	 Percentage determination: Determining the deviation in % from the target value (100%).	 Tuning fork principle: A resonating body is electromagnetically excited, causing it to oscillate.
 USB data interface: To connect the balance to a printer, PC or other peripheral devices.	 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.	 Electromagnetic force compensation: Coil in a permanent magnet. For the most accurate weighings.
 Bluetooth data interface: To transfer data from the balance to a printer, PC or other peripheral devices.	 Weighing with tolerance range: Upper and lower limiting can be programmed individually, e.g. dosing/sorting and portioning.	 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.	 Vibration-free weighing: (Animal weighing program) Vibrations are filtered out so that a stable weight is obtained.	 Verification possible: The time required for verification is specified in the pictogram.
 Interface for second balance: for direct connection of a second balance.	 Spray and dust protection IPxx: The type of protection is shown by the pictogram. For details see the glossary.	 DKD calibration possible: The time required for DKD calibration is shown in days in the pictogram.
 Network interface: For connecting the scale to an Ethernet network. With KERN products you can also use a universal RS-232/LAN converter.	 Stainless steel: the balance is protected against corrosion.	 Package shipment: The time required to manufacture the product internally is shown in days in the pictogram.
 GLP/ISO record keeping: of weighing data with date, time and identification-no. Only with printers from KERN.	 Suspended weighing: load support with hook on the underside of the balance.	 Pallet shipment: The time required to manufacture the product internally is shown in days in the pictogram.
 Piece counting: Reference quantities selectable. Display can be switched from piece to weight.	 Battery operation: Ready for battery operation. The battery type is specified for each device.	 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 ist 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: