Stainless steel platform scale KERN SFB

Stainless steel platform scales with IP65/67 protection, also with XL platform or EC type approval [M]

Features

- **Ideal for the robust industrial applications**
- 1 **Platform:** made entirely of stainless steel, silicone-coated steel load cell, protection against dust and water splashes IP67
- 2 **Display device:** stainless steel, protection against dust and water splashes IP65, (only when using rechargeable battery pack)

3 SFB-H: **Column,** standard, for models with weighing plate size 300×240 mm: Column height approx. 200 mm
400×300 mm: Column height approx. 200 mm

Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of display device W×D×H 266×165×96 mm
- Cable length of display device approx. 3 m
- Rechargeable battery pack internal, operating time up to 35 h without backlight, charging time approx. 12 h
- Permissible ambient temperature -10 °C/40 °C

Accessories

- **Data interface RS-232**, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KFN-A01
- **Stand** to be screwed onto the platform, height of stand approx. 600 mm, KERN SFB-A01
- 4 **Stand** to elevate display device, height of stand approx. 800 mm, KERN BFS-A07
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD: CAL EXT, GLP PRINTER, PCS, SUM, TOL, IP 65 (2), IP 67 (1), INOX, ACCU, MULTI, DMS, 1 DAY
OPTION: DAkkS +3 DAYS
FACTORY: RS 232, M +3 DAYS (SFB-M / SFB-HM)

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimal load [Min] g	Net weight approx. kg	Weighing plate W×D mm		Options: Verification KERN		Options: DAkkS Calibr. Certificate KERN	
SFB 50K-3XL	50	5	-	-	14	500×400		-		963-128	
SFB 100K-2L*	100	10	-	-	14	500×400		-		963-129	
SFB 100K-2XL	100	10	-	-	26	650×500		-		963-129	
SFB 200K-2XL*	200	20	-	-	26	650×500		-		963-129	
with elevated display											
SFB 10K1HIP	10	1	-	-	8	300×240		-		963-128	
SFB 20K2HIP	20	2	-	-	8	300×240		-		963-128	
SFB 50K5HIP	50	5	-	-	8	300×240		-		963-128	
SFB 50K5LHIP	50	5	-	-	8	400×300		-		963-128	
SFB 100K10HIP	100	10	-	-	14	400×300		-		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.											
SFB 100K-2HM	150	50	50	1000	13	400×300		965-229		963-129	
SFB 100K-2LM	150	50	50	1000	24	500×400		965-229		963-129	
SFB 100K-2XLM	150	50	50	1000	24	650×500		965-229		963-129	
SFB 300K-1LM*	300	100	100	2000	26	650×500		965-229		963-129	
with elevated display											
SFB 15K5HIPM	15	5	5	100	8	300×240		965-228		963-128	
SFB 30K10HIPM	30	10	10	200	8	300×240		965-228		963-128	
SFB 60K20LHIPM	60	20	20	400	14	400×300		965-229		963-129	
SFB 60K-2XLM	60	20	20	400	16	500×400		965-229		963-129	

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KERN Pictograms

CAL INT — **Internal adjusting:** Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)

CAL EXT — **Adjusting program CAL:** For quick setting up of the balance's accuracy. External adjusting weight required

MEMORY — **Memory:** Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.

ALIBI — **Alibi memory:** Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.

RS 232 — **Data interface RS-232:** To connect the balance to a printer, PC or network

RS 485 — **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

USB — **USB data interface:** To connect the balance to a printer, PC or other peripherals

BT — **Bluetooth* data interface:** To transfer data from the balance to a printer, PC or other peripherals

WLAN — **WLAN data interface:** To transfer data from the balance to a printer, PC or other peripherals

SWITCH — **Control outputs (optocoupler, digital I/O):** To connect relays, signal lamps, valves, etc.

DUAL — **Interface for second balance:** For direct connection of a second balance

LAN — **Network interface:** For connecting the scale to an Ethernet network

RC — **Wireless data transfer:** between the weighing unit and the evaluation unit using an integrated radio module

KCP PROTOCOL — **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 INTERN — **GLP/ISO log:** The balance displays serial number, user ID, weight, date and time, regardless of a printer connection

GLP PRINTER — **GLP/ISO log:** With weight, date and time. Only with KERN printers

PCS — **Piece counting:** Reference quantities selectable. Display can be switched from piece to weight

A RECIPE — **Recipe level A:** The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out

B RECIPE — **Recipe level B:** Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display

C RECIPE — **Recipe level C:** Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, multiplier function, adjustment of recipe when dosages are exceeded or barcode recognition

A SUM — **Totalising level A:** The weights of similar items can be added together and the total can be printed out

% PERCENT — **Percentage determination:** Determining the deviation in % from the target value (100 %)

UNIT — **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

TOL — **Weighing with tolerance range:** (Check-weighing) 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

MOVE — **Hold function:** (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value

IP — **Protection against dust and water splashes IPxx:** The type of protection is shown in the pictogram.

INOX — **Stainless steel:** The balance is protected against corrosion

UNDER — **Suspended weighing:** Load support with hook on the underside of the balance

BATT — **Battery operation:** Ready for battery operation. The battery type is specified for each device

ACCU — **Rechargeable battery pack:** Rechargeable set

A MULTI — **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

230 V — **Mains adapter:** 230V/50Hz in standard version for EU. On request GB, USA or AUS version available

230 V — **Power supply:** Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request

DMS — **Weighing principle: Strain gauges** Electrical resistor on an elastic deforming body

T-FORK — **Weighing principle: Tuning fork** A resonating body is electromagnetically excited, causing it to oscillate

N S FORCE — **Weighing principle: Electromagnetic force compensation** Coil inside a permanent magnet. For the most accurate weighings

SC TECH — **Weighing principle: Single cell technology** Advanced version of the force compensation principle with the highest level of precision

M +3 DAYS — **Verification possible:** The time required for verification is specified in the pictogram

DAkkS +3 DAYS — **DAkkS calibration possible (DKD):** The time required for DAkkS calibration is shown in days in the pictogram

1 DAY — **Package shipment:** The time required for internal shipping preparations is shown in days in the pictogram

2 DAYS — **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, GB, FR, IT, ES, NL, PL
- Conformity evaluation and reverification of balances and test weights

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