Stainless Steel Platform Scale KERN SFB · SFB-H

Stainless steel platform scales with IP65/67 protection, also with XL platform or optional verification

Features

- Ideal for the robust industrial applications
- **1** Display device: stainless steel, protection against dust and water splashes IP65, (only when using rechargeable battery pack)
- **2** Platform: made entirely of stainless steel, silicone-coated Stainless Steel load cell, protection against dust and water splashes IP67
- **3** KERN SFB-H: Column, standard, for models with weighing plate size
  A Height of stand approx. 200 mm
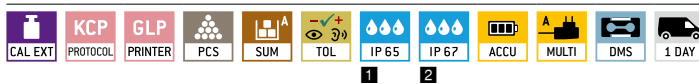 **B** Height of stand approx. 400 mm

Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of display device W×D×H 266×165×96 mm
- Weighing plate dimensions W×D×H, stainless steel
  A 300×240×104 mm **B** 400×300×115 mm
  C 500×400×117 mm **D** 650×500×136 mm
- Rechargeable battery pack integrated, as standard, operating time up to 35 h without backlight, charging time approx. 12 h
- Permissible ambient temperature -10 °C/40 °C

Accessories

- **4** KERN SFB: Stand to be screwed onto the platform, height of stand approx. 600 mm, KERN SFB-A01
- Data interface RS-232, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KFN-A01
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification, KERN KFB-A03
- Analogue module, must be ordered at purchase 0–10 V: KERN KFB-A04
  4–20 mA: KERN KFB-A05
- Further details, plenty of further accessories and suitable printers see *Accessories*

Please note: only one optional interface can be fitted for each device
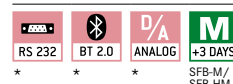
STANDARD										OPTION	FACTORY			
CAL EXT	PROTOCOL KCP	PRINTER GLP	PCS	SUM	TOL	IP 65	IP 67	ACCU	MULTI	DMS	1 DAY	DAkkS +3 DAYS	RS 232	BT 2.0	ANALOG	+3 DAYS SFB-M/ SFB-HM
						1	**2**						*	*	*	

Model KERN	Weighing capacity [Max] kg	Read-ability [d] g	Verification value [e] g	Minimal load [Min] g	Weighing plate	Net weight approx. kg	Verification KERN	Options DAkkS Calibr. Certificate DAkkS KERN
SFB 50K-3XL	50	5	-	-	C	14	-	963-128
SFB 100K-2XL	100	10	-	-	D	24	-	963-129
3 with elevated display								
SFB 10K1HIP	10	1	-	-	A	8	-	963-128
SFB 20K2HIP	20	2	-	-	A	8	-	963-128
SFB 50K5HIP	50	5	-	-	A	8	-	963-128
SFB 50K5LHIP	50	5	-	-	B	10	-	963-128
SFB 100K10HIP	100	10	-	-	B	10	-	963-129

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

Model KERN	Weighing capacity [Max] kg	Read-ability [d] g	Verification value [e] g	Minimal load [Min] g	Weighing plate	Net weight approx. kg	Verification KERN	Options DAkkS Calibr. Certificate DAkkS KERN
SFB 60K-2XLM	60	20	20	400	C	14	965-229	963-129
SFB 100K-2LM	150	50	50	1000	C	14	965-229	963-129
SFB 100K-2XLM	150	50	50	1000	D	24	965-229	963-129
3 with elevated display								
SFB 100K-2HM	150	50	50	1000	B	10	965-229	963-129
SFB 15K5HIPM	15	5	5	100	A	8	965-228	963-128
SFB 30K10HIPM	30	10	10	200	A	8	965-228	963-128
SFB 60K20LHIPM	60	20	20	400	B	10	965-229	963-129

Internal adjusting
Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)

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

EasyTouch
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.

KERN Universal Port (KUP)
allows the connection of external KUP interface adapters, e.g. RS-232, RS-485, SB, Bluetooth, WIFI, Analogue, Ethernet etc. for the exchange of data and control commands, without installation effort

RS-232 Data interface
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 data transfer 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 intern
The balance displays weight, date and time, independent of a printer connection

GLP/ISO log Printer
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, US
C) EU, CH, GB, US, 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

Conformity Assessment
The time required for conformity assessment 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

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