

Industrial Platform Scale KERN IFB



Accessories

- Protective working cover over the display device, scope of delivery: 5 items, KERN KFB-A02S05
- **2** Stand to elevate display device, for models with weighing plate size **A-E**: Height of stand approx. 330 mm, KERN IFB-A01
D-F: Height of stand approx. 600 mm, KERN IFB-A02
A-F: Stand to elevate display device, height of stand approx. 1040 mm, KERN BFS-A07
- Internal rechargeable battery pack, operating time up to 35 h without backlight, charging time approx. 12 h, must be ordered at purchase, KERN KFB-A01
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification. When installing the Bluetooth data interface, the RS-232 data interface can no longer be used, KERN KFB-A03
- Analogue module, not possible in combination with signal lamp or rechargeable battery pack 0-10 V: KERN KFB-A04
4-20 mA: KERN KFB-A05

High-resolution industrial scale in heavy version, now also up to [Max] 600 kg, verification optional

Features

- **1** Platform: weighing plate of stainless steel, painted steel base, silicone-coated aluminium load cell with protection against dust and water splashes IP65
- Benchtop stand incl. wall mount for display device as standard
- Protective working cover included with delivery

Technical data

- Backlit LCD display, digit height 52 mm
- Weighing plate dimensions, stainless steel, W×D×H
A 230×230×103 mm **B** 300×240×105 mm
C 400×300×114 mm **D** 500×400×124 mm
E 650×500×136 mm **F** 800×600×189 mm
- Dimensions of display device W×D×H 250×160×58 mm
- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C

STANDARD



OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Net weight approx. kg	Weighing plate	Options	
							Verification M KERN	DAkKS Calibr. Certificate DAKKS KERN
IFB 3K-4*	3	0,1	-	-	4,6	A	-	963-127
IFB 6K-4S*	6	0,2	-	-	4,6	A	-	963-128
IFB 6K-4*	6	0,2	-	-	5,0	B	-	963-128
IFB 10K-4*	15	0,5	-	-	5,0	B	-	963-128
IFB 10K-4L*	15	0,5	-	-	7	C	-	963-128
IFB 30K-3*	30	1	-	-	7	C	-	963-128
IFB 60K-3*	60	2	-	-	8	C	-	963-129
IFB 60K-3L*	60	2	-	-	11	D	-	963-129
IFB 100K-3*	150	5	-	-	11	D	-	963-129
IFB 100K-3L*	150	5	-	-	18	E	-	963-129
IFB 300K-2*	300	10	-	-	20	E	-	963-129
IFB 600K-2*	600	20	-	-	40	F	-	963-130

Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range

IFB 6K-3SM*	3 6	1 2	1 2	20 40	4,6	A	965-228	963-128
IFB 6K1DM*	3 6	1 2	1 2	20 40	6	B	965-228	963-128
IFB 15K2DM*	6 15	2 5	2 5	40 100	5,0	B	965-228	963-128
IFB 15K2DLM*	6 15	2 5	2 5	40 100	7	C	965-228	963-128
IFB 30K5DM*	15 30	5 10	5 10	100 200	8	C	965-228	963-128
IFB 60K10DM*	30 60	10 20	10 20	200 400	8	C	965-229	963-129
IFB 60K10DLM*	30 60	10 20	10 20	200 400	11	D	965-229	963-129
IFB 150K20DM*	60 150	20 50	20 50	400 1000	11	D	965-229	963-129
IFB 150K20DLM*	60 150	20 50	20 50	400 1000	18	E	965-229	963-129
IFB 300K50DM*	150 300	50 100	50 100	1000 2000	20	E	965-229	963-129
IFB 600K-1M*	300 600	100 200	100 200	2000 4000	44	F	965-230	963-130

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.

1 * ONLY WHILE STOCKS LAST

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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