

## Industrial platform scale KERN IFB



### Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN KFB-A02S05
- **Stand** to elevate display device, for models with weighing plate size
  - A-E**: Height of stand approx. 330 mm, KERN IFB-A01
  - D, E, 2**: Height of stand approx. 600 mm, KERN IFB-A02
  - A-F**: Height of stand approx. 800 mm, **Stand** to elevate display device, height of stand approx. 800 mm, KERN BFS-A07
- **3 Rechargeable battery pack internal**, 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, KERN KFB-A03
- Analogue module, e.g. for connection to Siemens SPS® controls, must be ordered at purchase, not possible in combination with signal lamp 0-10 V: KERN KFB-A04 4-20 mA: KERN KFB-A05
- **Signal lamp** KERN CFS-A03
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04

High-resolution industrial scale in heavy version with EC type approval [M], now also up to [Max] 600 kg

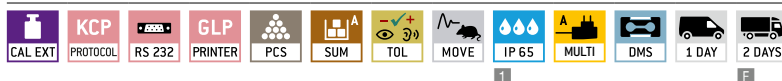
### Features

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

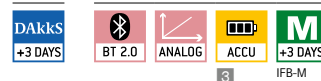
### Technical data

- Large backlit LCD display, digit height 52 mm
- Weighing plate dimensions, stainless steel W×D×H
  - A** 230×230×110 mm, **B** 300×240×110 mm
  - C** 400×300×128 mm, **D** 500×400×130 mm
  - E** 650×500×142 mm, **F** 800×600×200 mm
- Dimensions of display device W×D×H 230×230×360 mm
- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C

### STANDARD



### OPTION FACTORY



Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Net weight approx. kg	Weighing plate	Option		
							Verification	DAkkS Calibr. Certificate	
<b>KERN</b>							<b>M</b>	<b>DAkkS</b>	<b>KERN</b>
IFB 3K-4	3	0,1	-	-	6	<b>A</b>	-	963-127	
IFB 6K-4S	6	0,2	-	-	6	<b>A</b>	-	963-128	
IFB 6K-4	6	0,2	-	-	6	<b>B</b>	-	963-128	
IFB 10K-4	15	0,5	-	-	6	<b>B</b>	-	963-128	
IFB 10K-4L	15	0,5	-	-	10	<b>C</b>	-	963-128	
IFB 30K-3	30	1	-	-	10	<b>C</b>	-	963-128	
IFB 60K-3	60	2	-	-	10	<b>C</b>	-	963-129	
IFB 60K-3L	60	2	-	-	14	<b>D</b>	-	963-129	
IFB 100K-3	150	5	-	-	11	<b>D</b>	-	963-129	
IFB 100K-3L	150	5	-	-	20	<b>E</b>	-	963-129	
IFB 300K-2	300	10	-	-	20	<b>E</b>	-	963-129	
IFB 600K-2	600	20	-	-	65	<b>F</b>	-	963-130	
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readability [d]									
IFB 6K-3SM	3   6	1   2	1   2	20   40	4,6	<b>A</b>	965-228	963-128	
IFB 6K1DM	3   6	1   2	1   2	20   40	6	<b>B</b>	965-228	963-128	
IFB 15K2DM	6   15	2   5	2   5	40   100	6	<b>B</b>	965-228	963-128	
IFB 15K2DLM	6   15	2   5	2   5	40   100	10	<b>C</b>	965-228	963-128	
IFB 30K5DM	15   30	5   10	5   10	100   200	10	<b>C</b>	965-228	963-128	
IFB 60K10DM	30   60	10   20	10   20	200   400	10	<b>C</b>	965-229	963-129	
IFB 60K10DLM	30   60	10   20	10   20	200   400	13	<b>D</b>	965-229	963-129	
IFB 150K20DM	60   150	20   50	20   50	400   1000	14	<b>D</b>	965-229	963-129	
IFB 150K20DLM	60   150	20   50	20   50	400   1000	20	<b>E</b>	965-229	963-129	
IFB 300K50DM	150   300	50   100	50   100	1000   2000	22	<b>E</b>	965-229	963-129	
IFB 600K-1M	300   600	100   200	100   200	2000   4000	65	<b>F</b>	965-230	963-130	

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.

## Pictograms

<b>Internal adjusting:</b> Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)	<b>KERN Communication Protocol (KCP):</b> 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	<b>Protection against dust and water splashes IPxx:</b> The type of protection is shown in the pictogram.
<b>Adjusting program CAL:</b> For quick setting up of the balance's accuracy. External adjusting weight required	<b>GLP/ISO log:</b> The balance displays serial number, user ID, weight, date and time, regardless of a printer connection	<b>Stainless steel:</b> The balance is protected against corrosion
<b>Easy Touch:</b> Suitable for the connection, data transmission and control through PC, tablet or smartphone	<b>GLP/ISO log:</b> With weight, date and time. Only with KERN printers	<b>Suspended weighing:</b> Load support with hook on the underside of the balance
<b>Memory:</b> Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	<b>Piece counting:</b> Reference quantities selectable. Display can be switched from piece to weight	<b>Battery operation:</b> Ready for battery operation. The battery type is specified for each device
<b>Alibi memory:</b> Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.	<b>GLP/ISO log:</b> With weight, date and time. Only with KERN printers	<b>Rechargeable battery pack:</b> Rechargeable set
<b>Data interface RS-232:</b> To connect the balance to a printer, PC or network	<b>Recipe level A:</b> The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out	<b>Universal mains adapter:</b> with universal input and optional input socket adapters for A) EU, CH, GB; B) EU, CH, GB, USA; C) EU, CH, GB, USA, AUS
<b>RS-485 data interface:</b> To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible	<b>Recipe level B:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display	<b>Mains adapter:</b> 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available
<b>USB data interface:</b> To connect the balance to a printer, PC or other peripherals	<b>Recipe level C:</b> 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	<b>Power supply:</b> Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request
<b>Bluetooth* data interface:</b> To transfer data from the balance to a printer, PC or other peripherals	<b>Totalising level A:</b> The weights of similar items can be added together and the total can be printed out	<b>Weighing principle: Strain gauges</b> Electrical resistor on an elastic deforming body
<b>WLAN data interface:</b> To transfer data from the balance to a printer, PC or other peripherals	<b>Percentage determination:</b> Determining the deviation in % from the target value (100 %)	<b>Weighing principle: Tuning fork</b> A resonating body is electromagnetically excited, causing it to oscillate
<b>Control outputs (optocoupler, digital I/O):</b> To connect relays, signal lamps, valves, etc.	<b>Weighing units:</b> 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	<b>Weighing principle: Electromagnetic force compensation</b> Coil inside a permanent magnet. For the most accurate weighings
<b>Analogue interface:</b> to connect a suitable peripheral device for analogue processing of the measurements	<b>Weighing with tolerance range:</b> (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	<b>Weighing principle: Single cell technology:</b> Advanced version of the force compensation principle with the highest level of precision
<b>Interface for second balance:</b> For direct connection of a second balance	<b>Hold function:</b> (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value	<b>Verification possible:</b> The time required for verification is specified in the pictogram
<b>Network interface:</b> For connecting the scale to an Ethernet network		<b>DAKkS calibration possible:</b> The time required for DAKkS calibration is shown in days in the pictogram
<b>Wireless data transfer:</b> between the weighing unit and the evaluation unit using an integrated radio module		<b>Package shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram
		<b>Pallet shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram

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## 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

## Your KERN specialist dealer: