

## Industrial platform scale KERN IFB

## VAAKATALO

Vaakatalo Oy  
Vestonkatu 11  
33580 TAMPERE  
info@vaakatalo.com  
www.vaakatalo.com  
Puh. 020 73 51 500



### Accessories

- Protective working cover, 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. 800 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, must be ordered at purchase, not in combination with verification, KERN KFB-A03
- Analogue module, not possible in combination with signal lamp, must be ordered at purchase, 0-10 V, KERN KFB-A04 4-20 mA, KERN KFB-A05
- Signal lamp for visual support of weighing with tolerance range, 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 230×230×110mm, 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 250×160×58 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 | Verification | Option | DAKKS Calibr. Certificate |
|-------------|----------------------------|-------------------|--------------------------|----------------------|-----------------------|----------------|--------------|--------|---------------------------|
| KERN        |                            |                   |                          |                      |                       |                | M<br>KERN    |        | DAKKS<br>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                     | B              | -            | -      | 963-128                   |
| IFB 10K-4   | 15                         | 0,5               | -                        | -                    | 5                     | B              | -            | -      | 963-128                   |
| IFB 10K-4L  | 15                         | 0,5               | -                        | -                    | 8                     | C              | -            | -      | 963-128                   |
| IFB 30K-3   | 30                         | 1                 | -                        | -                    | 8                     | 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                 | -                        | -                    | 20                    | E              | -            | -      | 963-129                   |
| IFB 300K-2  | 300                        | 10                | -                        | -                    | 20                    | E              | -            | -      | 963-129                   |
| IFB 600K-2  | 600                        | 20                | -                        | -                    | 44                    | 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     | 5   | B | 965-228 | 963-128 |
| IFB 15K2DM    | 6   15    | 2   5     | 2   5     | 40   100    | 5   | B | 965-228 | 963-128 |
| IFB 15K2DLM   | 6   15    | 2   5     | 2   5     | 40   100    | 8   | 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  | 20  | 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 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.

- 
**Internal adjusting:**  
 Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)
- 
**Network interface:**  
 For connecting the scale to an Ethernet network
- 
**Suspended weighing:**  
 Load support with hook on the underside of the balance
- 
**Adjusting program CAL:**  
 For quick setting up of the balance's accuracy. External adjusting weight required
- 
**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
- 
**Battery operation:**  
 Ready for battery operation. The battery type is specified for each device
- 
**Easy Touch:**  
 Suitable for the connection, data transmission and control through PC or tablet.
- 
**Rechargeable battery pack:**  
 Rechargeable set
- 
**Memory:**  
 Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.
- 
**GLP/ISO log:**  
 The balance displays weight, date and time, independent of a printer connection
- 
**Universal plug-in power supply:**  
 with universal input and optional input socket adapters for  
 A) EU, CH, GB  
 B) EU, CH, GB, USA  
 C) EU, CH, GB, USA, AUS
- 
**Alibi memory:**  
 Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.
- 
**GLP/ISO log:**  
 With weight, date and time. Only with KERN printers.
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**Plug-in power supply:**  
 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available
- 
**KERN Universal Port (KUP):**  
 allows the connection of external KUP interface adapters, e.g. RS-232, RS-485, SB, Bluetooth, WLAN, Analogue, Ethernet etc. for the exchange of data and control commands, without installation effort
- 
**Piece counting:**  
 Reference quantities selectable. Display can be switched from piece to weight
- 
**Integrated power supply unit:**  
 Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request
- 
**Data interface RS-232:**  
 To connect the balance to a printer, PC or network
- 
**Recipe level A:**  
 The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out
- 
**Weighing principle: Strain gauges**  
 Electrical resistor on an elastic deforming body
- 
**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
- 
**Recipe level B:**  
 Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display
- 
**Weighing principle: Tuning fork**  
 A resonating body is electromagnetically excited, causing it to oscillate
- 
**USB data interface:**  
 To connect the balance to a printer, PC or other peripherals
- 
**Totalising level A:**  
 The weights of similar items can be added together and the total can be printed out
- 
**Weighing principle: Electromagnetic force compensation**  
 Coil inside a permanent magnet. For the most accurate weighings
- 
**Bluetooth\* data interface:**  
 To transfer data from the balance to a printer, PC or other peripherals
- 
**Percentage determination:**  
 Determining the deviation in % from the target value (100 %)
- 
**Weighing principle: Single cell technology:**  
 Advanced version of the force compensation principle with the highest level of precision
- 
**WiFi data interface:**  
 To transfer data from the balance to a printer, PC or other peripherals
- 
**Weighing units:**  
 Can be switched to e.g. nonmetric units. See balance model. Please refer to KERN's website for more details
- 
**Verification possible:**  
 The time required for verification is specified in the pictogram
- 
**Control outputs (optocoupler, digital I/O):**  
 To connect relays, signal lamps, valves, etc.
- 
**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
- 
**DAkkS calibration possible (DKD):**  
 The time required for DAkkS calibration is shown in days in the pictogram
- 
**Analogue interface:**  
 to connect a suitable peripheral device for analogue processing of the measurements
- 
**Hold function:**  
 (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value
- 
**Factory calibration (ISO):**  
 The time required for Factory calibration is shown in days in the pictogram
- 
**Interface for second balance:**  
 For direct connection of a second balance
- 
**Protection against dust and water splashes IPxx:**  
 The type of protection is shown 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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