

Floor scale with EC type approval [M]\* and the best price-to-performance ratio – now also as high-resolution dual-range balance



**Did you know?**

Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN – always one step ahead



**3 Access ramp incl. pair of base plates** to facilitate access of e.g. wire cage trolleys, shelf trolleys, container trolleys, storage trolleys, sack trucks, transpallets, mobile containers, containers refuse etc.



**4 Verification plug**, for verified balances this enables you to separate the display device and platform without affecting the verification

## Floor scales KERN BiD/BiD-D

### Features

- Dual-range floor scales, ideal, high maximum loads need to be weighed, but in the lower load range you still need high resolution. This means that two scales can be replaced with one – which saves space and money!
- BID 1T-4EM: Compact special size, especially for weighing europallets
- **1** Weighing bridge: out of anti-slip corrugated steel, 4 silicone-coated steel load cells, dust and spray protection IP67
- Easy levelling of the weighing bridge as well as access to the junction box from above
- **2** Display device: for details see KERN KIB-TM
- Totalising of weights and piece counts
- Thanks to interfaces such as RS-232 or USB, WiFi, Bluetooth, Ethernet (optional), the scale can easily be connected to existing networks. Data exchange between the scale, PC or printer
- Searching and remote control of the balance using external control devices or computers with the KERN Communication Protocol (KCP). KCP is a standardised interface command structure for KERN balances and other instruments which allows you to recall and manage all relevant parameters and device functions. You can therefore simply connect KERN devices with KCP to computers, industrial control systems and other digital systems. In a large number of cases the KCP is compatible with the MT-SICS protocol.

### Technical data

- Large LCD display, digit height 25 mm
- Weighing plate dimensions W×D×H
  - A** 1000×1000×108 mm
  - B** 1200×1000×108 mm
  - C** 1200×1500×108 mm
  - D** 1500×1500×108 mm
- Dimensions of display device W×D×H 268×115×80 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

### Accessories

- Protective working cover, scope of delivery: 5 items, KERN EOC-A01S05
- Pair of base plates to fix the weighing bridge to the floor, KERN BIC-A07
- Ascending ramp, steel, powder coated, for models with weighing plate size
  - A, B** KERN BIC-A01
  - C** KERN BIC-A02
  - D** KERN BIC-A03
- Stable pit frame, Steel, powder-coated, to install the weighing bridge so you can drive straight on, for models with weighing plate size
  - A** KERN BIC-A04
  - B** KERN BIC-A08
  - C** KERN BIC-A05
  - D** KERN BIC-A06
- Benchtop stand incl. wall mount for display device, KERN EOC-A04
- Internal rechargeable battery pack, operating time up to 43 h without backlight, charging time approx. 3 h, KERN KFB-A01
- USB data interface, for transferring weighing to the PC, printer etc., KERN KIB-A03
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not possible in combination with verification, KERN KIB-A04

- WiFi interface for wireless connection of the balance to networks and WiFi capable devices, such as tablets, laptops or smartphones, continuous data transfer, must be ordered at purchase, KERN KIB-A10
- Ethernet data interface, to connect an IP-based Ethernet network, continuous data transfer, must be ordered at purchase, KERN KIB-A02
- Signal lamp, including interface, for visual support of weighing with tolerance range, must be ordered at purchase, KERN KIB-A06
- Alibi memory, including USB interface for exporting weighing results to external data storage media, such as, for example, USB sticks, hard drives, etc. Not in combination with verification, KERN KIB-A01
- Verification plug, for verified balances this enables you to separate the display device and platform without affecting the verification, e.g. for installing the scale in a packing and dispatch table, pit frame etc. at a later date. Please order this at the same time as you purchase your scale, KERN KIB-A12

### Note:

For verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame

In addition to the RS-232 data interface, which is integrated as standard, only one other data interface can be installed and operated

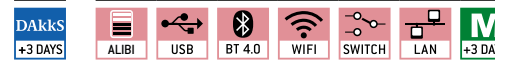
**!** Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

STANDARD



OPTION



























FACTORY



Model	Weighing capacity [Max] kg	Readability = Verification value [d] = [e] kg	Minimal load [Min] kg	Net weight approx. kg	Weighing plate	Option		
						Verification		DAkKS Calibr. Certificate
<b>KERN</b>						<b>MID</b>		<b>DAkKS</b>
						KERN		KERN
<b>BID 600K-1SM</b>	600	0,2	4	70	<b>A</b>	965-230		963-130
<b>BID 600K-1M</b>	600	0,2	4	150	<b>C</b>	965-230		963-130
<b>BID 1T-4SM</b>	1500	0,5	10	70	<b>A</b>	965-230		963-130
<b>BID 1T-4M</b>	1500	0,5	10	150	<b>C</b>	965-230		963-130
<b>BID 1T-4EM</b>	1500	0,5	10	85	<b>B</b>	965-230		963-130
<b>BID 1T-4LM</b>	1500	0,5	10	160	<b>D</b>	965-230		963-130
<b>BID 3T-3M</b>	3000	1	20	150	<b>C</b>	965-232		963-132
<b>BID 3T-3LM</b>	3000	1	20	160	<b>D</b>	965-232		963-132
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readability [d]								
<b>BID 600K-1DSM</b>	300   600	0,1   0,2	4	70	<b>A</b>	965-230		963-130
<b>BID 600K-1DM</b>	300   600	0,1   0,2	4	150	<b>C</b>	965-230		963-130
<b>BID 1T-4DSM</b>	600   1500	0,2   0,5	10	70	<b>A</b>	965-230		963-130
<b>BID 1T-4DM</b>	600   1500	0,2   0,5	10	150	<b>C</b>	965-230		963-130
<b>BID 3T-3DM</b>	1500   3000	0,5   1	20	150	<b>C</b>	965-232		963-132
<b>BID 3T-3DLM</b>	1500   3000	0,5   1	20	160	<b>D</b>	965-232		963-132
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.								

\* Verification not in combination with KERN KIB-A02, KIB-A03, KIB-A04, KIB-A10

## 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>Suspended weighing:</b> Load support with hook on the underside of the balance
 <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>Battery operation:</b> Ready for battery operation. The battery type is specified for each device
 <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>Rechargeable battery pack:</b> Rechargeable set
 <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>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>Alibi memory:</b> Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard	 <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>Mains adapter:</b> 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available
 <b>Data interface RS-232:</b> To connect the balance to a printer, PC or network	 <b>Recipe level B:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display	 <b>Power supply:</b> Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request
 <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>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>USB data interface:</b> To connect 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>Bluetooth* data interface:</b> To transfer data from the balance to a printer, PC or other peripherals	 <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>WiFi data interface:</b> To transfer data from the balance to a printer, PC or other peripherals	 <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>Control outputs (optocoupler, digital I/O):</b> To connect relays, signal lamps, valves, etc.	 <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>Analogue interface:</b> to connect a suitable peripheral device for analogue processing of the measurements	 <b>Protection against dust and water splashes IPxx:</b> The type of protection is shown in the pictogram	 <b>DAKkS calibration possible (DKD):</b> The time required for DAKkS calibration is shown in days in the pictogram
 <b>Interface for second balance:</b> For direct connection of a second balance		 <b>Factory calibration (ISO):</b> The time required for Factory calibration is shown in days in the pictogram
 <b>Network interface:</b> For connecting the scale to an Ethernet network		 <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, EN, FR, IT, ES, NL, PL
- Conformity evaluation and reverification of balances and test weights

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