PROFESSIONAL MEASURING
SINCE 1844

KERN

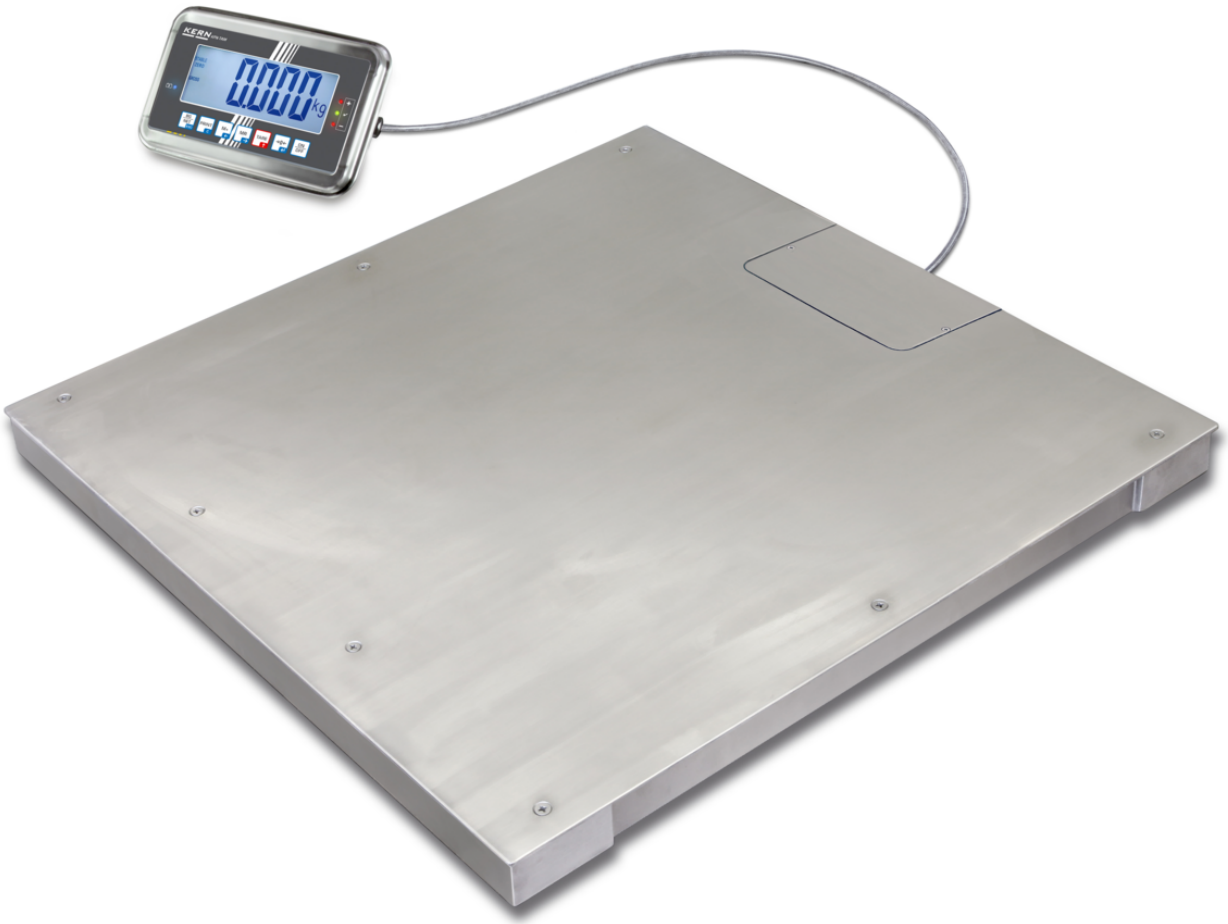
Product brochure

30.10.2026

KERN BFN 1T-4SM

Stainless steel weighing bridge with screwed-on weighing plate (IP68) and stainless steel display device (IP65), verification optional

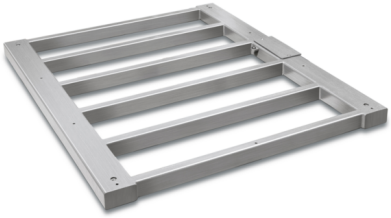
ENGLISH



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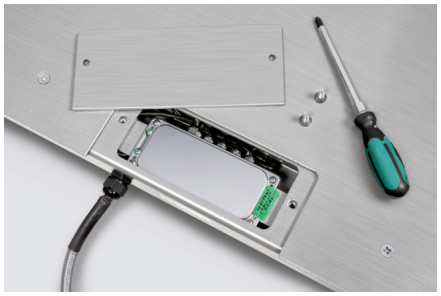
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APPLICATION EXAMPLE





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FEATURES

- Tough industry standard suitable for use in harsh industrial applications
- Weighing plate screwed on from the top with stainless steel screws, so it‘s easy to remove, hygienic and easy to clean
- Weighing bridge: stainless steel, extremely resistant to bending due to material thickness, 4 welded stainless steel load cells, IP68 dust and spray protection. Weighing bridge can also be delivered as component without the display device, for details see KERN KFP-V40
- Your support in a HACCP-compliant quality system
- Easy levelling of the weighing bridge as well as access to the junction box from above
- Display device: stainless steel, protection against dust and water splashesIP65. Ideal for industrial applications, hygienic and easy to clean
- Benchtop stand incl. wall mount for display device as standard
- Totalising of weights and piece counts
- Internal rechargeable battery pack included with the delievery

TECHNICAL DATA

- Large backlit LCD display, digit height 52 mm
- Weighing platform dimensions, stainless steel, W×D×H 1000×1000×90 mm
- Dimensions of display device W×D×H 266×165×96 mm
- Cable length of display device approx. 5 m
- Net weight approx. 95 kg
- Permissible ambient temperature -10 °C/40 °C

MAIN SCOPE OF APPLICATIONS

- Logistics
- Construction
- Warehousing
- Quality control and incoming goods inspection
- Dispatch

PLEASE NOTE FOR YOUR ORDER

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

PICTOGRAMS

Standard



Option



Factory



MODEL OVERVIEW

Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Cable length	Dimensions weighing surface	Net weight approx.
BFN 1T-4SM	1500 kg	0,5 kg	0,5 kg	10 kg	5 m	1000×1000 mm	95 kg

ACCESSORIES

Model	Description
BFB-A03	Cable BFB-A03, Cable length approx. 15 m
BFN-A03	Pair of base plates BFN-A03
BFN-A05	Access ramp BFN-A05 (1000×740×90 mm)
BFN-A06	Pit frame BFN-A06
BFS-A07	Tripod BFS-A07, Height of stand approx. 1040 mm

Model	Description
CFS-A01	RS232 interface cable CFS-A01
CFS-A04	RS-232 Y-interface cable CFS-A04
GAB-A04	Rechargeable battery pack GAB-A04 (Pb)
KFN-A01	RS-232 interface KFN-A01
PFB-A02	Power adapter PFB-A02 (12 V, 500 mA | 100 V - 240 V, 50 / 60 Hz | EURO, CH)
PFB-A03	Power adapter PFB-A03 (12 V, 500 mA | 100 V - 240 V, 50 / 60 Hz | UK)
PFB-A04	Power adapter PFB-A04 (12 V, 500 mA | 100 V - 240 V | US)
YGR-01	ESD grounding plug incl. grounding cable YGR-01
YKA-11	Power adapter YKA-11 (12 V, 500 mA | 100 - 240 V~ 50/60 Hz 190 mA | EURO, AUS, UK, US, CH)
YKC-01	Thermal printer YKC-01

SOFTWARE

Model	Description
SCD-4.0-DL	Software SCD-4.0-DL (Scope of supplies: Download link for 1 license)
SCD-4.0-DLS05	Software SCD-4.0-DLS05 (Scope of supplies: Download link for 5 licenses)
SCD-4.0-PRO-DL	Software SCD-4.0-PRO-DL (Scope of supplies: Download link for 1 license)
SCD-4.0-PRO-DL-AS05	Software SCD-4.0-PRO-DL-AS05 (Scope of supplies: Download link for 5 licenses)

SERVICES

Model	Description
961-250	Adjustment at the location of installation 961-250 (Not in combination with verification)
963-130	DAkkS calibration certificate 963-130
965-230	Verification / Conformity assessment according to NAWI (2014/31/EU) 965-230
969-517	Confirmation of the manufacturer's specification (only in combination with DAkkS calibration certificate)969-517
970-111	Warranty extension (+2 years) 970-111

KERN Pictogram Overview

	External adjustment: Adjusting accuracy using external adjustment weight
	KERN Communication Protocol (KCP): 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
	Piece counting: Reference quantities selectable. Display can be switched from piece to weight
	Sum function: The weight values of weighed items can be added together and the total printed out
	Measuring with tolerance range (checkweighing): Upper and lower limit values can be programmed, e.g. for sorting, portioning or for measuring coatings or material thicknesses. The process is supported by an acoustic and/or optical signal
	Hold function: When the weighing conditions are unstable, a stable weight is calculated as an average value
	Display device: Protection against dust and water splashes IP65
	Junction Box: Protection against dust and water splashes IP67
	Load Cell: Protection against dust and water splashes IP68
	Rechargeable battery pack: Rechargeable set
	Universal plug-in power supply: With universal input and optional input socket adapters for EU, CH, GB or EU, CH, GB, US or EU, CH, GB, US, AUS
	Weighing principle Strain gauges: Electrical resistor on an elastic deforming body
	Pallet shipment: The duration of internal product provision are three days
	Accredited calibration (DKD): The duration of the accredited calibration is 3 working days
	Data interface RS-232: For connection to printers, PCs or other peripheral devices for data transfer over longer distances. Network in bus topology possible
	Data interface Bluetooth: For connection to printers, PCs or other peripheral devices
	Analogue interface: to connect a suitable peripheral device for analogue processing of the measurements
	Conformity assessment: The duration of the conformity assessment is 3 working days

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