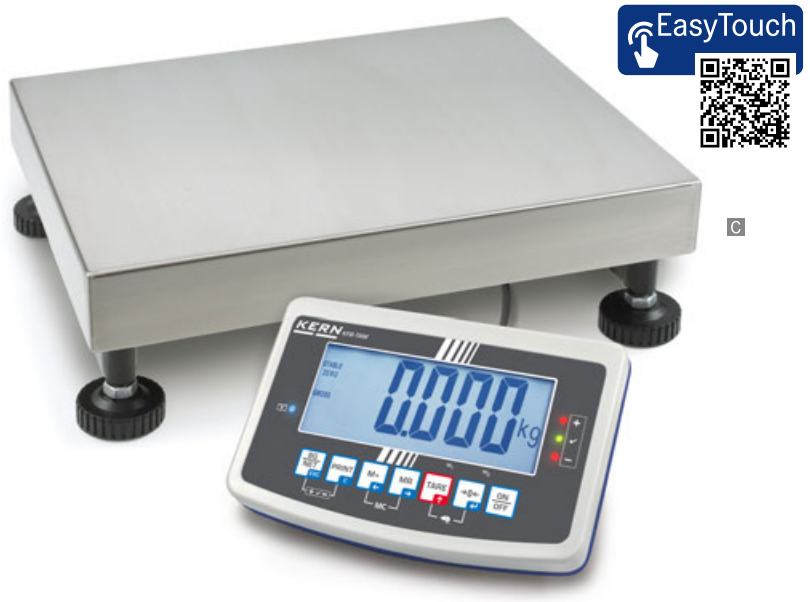
Industrial platform scale KERN IFB



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 – F: 2 Height of stand approx. 600 mm, KERN IFB-A02
  A – F: Height of stand approx. 800 mm, Stand to elevate display device Column KERN BFS-A07
- 3 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, KERN KFB-A03
- Analogue module, 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 for visual support of weighing with tolerance range, only in combination with, 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: CAL EXT, RS 232, KCP PROTOCOL, GLP PRINTER, PCS, SUM, TOL, MOVE, IP 65 (1), MULTI, DMS, 1 DAY, 2 DAYS (F)

OPTION: ET, DAkkS +3 DAYS

FACTORY: BT 2.0, ANALOG, ACCU (3), M +3 DAYS IFB-M

Model KERN	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Net weight approx. kg	Weighing plate		Option Verification KERN		Option DAkkS Calibr. Certificate 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	
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readibility [d]											
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.

Pictograms

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

Easy Touch:
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.

Data interface RS-232:
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 datatransfer 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:
The balance displays serial number, user ID, weight, date and time, regardless of a printer connection

GLP/ISO log:
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, USA; C) EU, CH, GB, USA, 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

Verification possible:
The time required for verification 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

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

Your KERN specialist dealer: