Counting scale KERN IFS


A


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- Dimensions of display device W×D×H 260×150×65 mm
- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C

Industrial counting scale with convenient decimal keypad for easy data entry – now also with EC type approval [M], counting resolution up to 75000 points

Features

- Tough industry standard suitable for use in harsh industrial applications
- Ergonomic display device with large keypad and high-contrast LCD display for easy entry and reading of, e.g., tare weights, reference weights, limit values etc.
- Three displays for weight display, reference weight, total pieces
- 100 item memories for master data such as reference weight, reference quantity, container weight (PRE-TARE) etc.
- Printout of date and time for GLP and GMP compliant data logging
- Precise counting: The manual reference weight optimisation gradually improves the average value of the piece weight
- Totalising of pieces when counting
- Protective working cover included with delivery

Technical data

- Large backlit LCD displays, digit height 16,5 mm
- Dimensions weighing surface, Stainless Steel
  - A 230×230×110 mm
  - B 300×240×110 mm
  - C 400×300×120 mm
  - D 500×400×140 mm
  - E 650×500×140 mm

Accessories

- Protective working cover, scope of delivery: 5 items, KERN KFB-A02S05
- 1 Stand to elevate display device Height of stand approx. 330 mm, KERN IFB-A01 Height of stand approx. 600 mm, for models with weighing plate size D, E, KERN IFB-A02
- Internal rechargable battery pack, operating time up to 40 h, without backlight, charging time approx. 12 h , must be ordered at purchase, KERN KFB-A01
- ESD drain to protect against electrostatic discharge e.g. for electrostatically-charged weighing objects or people who work with the scale, KERN YGR-01
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD: CAL EXT, MEMORY, RS 232, KCP PROTOCOL, GLP INTERN, PCS, SUM, PERCENT, TOL, MULTI, DMS, 1 DAY

OPTION: DAkkS +3 DAYS

FACTORY: ACCU, M +3 DAYS IFS-M

Model KERN	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Smallest part weight [Normal] g/piece	Counting resolution Points	Net weight approx. kg	Weighing plate		Option Verification MID KERN		Option DAkkS Calibr. Certificate DAkkS KERN	
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readibility [d]												
IFS 6K-4S	3 | 6	0,1 | 0,2	-	1	60.000	4,6	A		-		963-128	
IFS 10K-4	6 | 15	0,1 | 0,2	-	2	75.000	6	B		-		963-128	
IFS 30K0.2DL	12 | 30	0,2 | 0,5	-	5	60.000	11	C		-		963-128	
IFS 60K0.5D	30 | 60	0,5 | 1	-	10	60.000	10	C		-		963-129	
IFS 60K0.5DL	30 | 60	0,5 | 1	-	10	60.000	12	D		-		963-129	
IFS 100K-3	75 | 150	1 | 2	-	25	60.000	12	D		-		963-129	
IFS 100K-3L	75 | 150	1 | 2	-	25	60.000	20	E		-		963-129	
IFS 300K-3	150 | 300	2 | 5	-	50	60.000	22	E		-		963-129	
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.												
IFS 6K-3SM	3 | 6	1 | 2	1 | 2	1	60.000	6	A		965-228		963-128	
IFS 6K-3M	3 | 6	1 | 2	1 | 2	1	60.000	6	B		965-228		963-128	
IFS 10K-3M	6 | 15	2 | 5	2 | 5	2	75.000	6	B		965-228		963-128	
IFS 10K-3LM	6 | 15	2 | 5	2 | 5	2	75.000	10	C		965-228		963-128	
IFS 30K-3M	15 | 30	5 | 10	5 | 10	5	60.000	10	C		965-228		963-128	
IFS 60K-2M	30 | 60	10 | 20	10 | 20	10	60.000	11	C		965-229		963-129	
IFS 60K-2LM	30 | 60	10 | 20	10 | 20	10	60.000	13	D		965-229		963-129	
IFS 100K-2M	60 | 150	20 | 50	20 | 50	25	60.000	12	D		965-229		963-129	
IFS 100K-2LM	60 | 150	20 | 50	20 | 50	25	60.000	22	E		965-229		963-129	
IFS 300K-2M	150 | 300	50 | 100	50 | 100	50	60.000	22	E		965-229		963-129	

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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, tablet or smartphone.

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 data transfer 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 at the touch of a key. 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 mains adapter:
with universal input and optional input socket adapters for A) EU, CH, GB; B) EU, CH, GB, USA; C) EU, CH, GB, USA, AUS

Mains adapter:
230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available

Power supply:
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:

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