

## Counting Scale KERN IFS



- C** 400×300×120 mm **D** 500×400×140 mm
- E** 650×500×140 mm
- 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 – counting resolution up to 75.000 points, verification optional

### Features

- Ergonomic display device with large keypad and high-contrast display for easy entry and reading of, e.g., tare weights, reference weights, limit values etc.
- Three displays for weight display (verifiable), reference weight, total pieces
- 100 item memories for master data such as reference weight, reference quantity, container weight (PRE-TARE) etc.
- Precise counting: The manual reference weight optimisation gradually improves the average

value of the piece weight

- Totalising of pieces when counting
- Printout with date and time
- Protective working cover over the display device included with the delivery

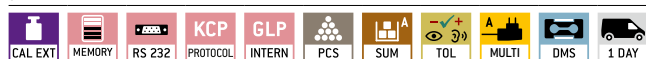
### Technical data

- Large backlit LCD displays, digit height 16,5 mm
- Weighing plate dimensions, stainless steel, W×D×H  
**A** 230×230×110 mm **B** 300×240×110 mm

### Accessories

- Protective working cover over the display device, scope of delivery: 5 items, KERN KFB-A02S05
- Stand to elevate display device  
**1 A - E** Height of stand approx. 330 mm, KERN IFB-A01  
**D, E** Height of stand approx. 600 mm, KERN IFB-A02
- Internal rechargeable battery pack, operating time up to 18 h without backlight, charging time approx. 12 h, must be ordered at purchase, KERN KFB-A01
- 2** 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



### OPTION



### FACTORY



Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min] g	Smallest part weight (Normal) g/piece	Net weight approx. kg	Weighing plate	Verification	Options
KERN	kg	g	g	g	g/piece	kg		KERN	DAkKS Calibr. Certificate
									DAkKS KERN
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									
IFS 6K-4S	3   6	0,1   0,2	-	-	1	3,8	<b>A</b>	-	963-128
IFS 10K-4	6   15	0,1   0,2	-	-	2	4,8	<b>B</b>	-	963-128
IFS 30K0.2DL	12   30	0,2   0,5	-	-	5	7	<b>C</b>	-	963-128
IFS 60K0.5D	30   60	0,5   1	-	-	10	7	<b>C</b>	-	963-129
IFS 60K0.5DL	30   60	0,5   1	-	-	10	12	<b>D</b>	-	963-129
IFS 100K-3	75   150	1   2	-	-	25	12	<b>D</b>	-	963-129
IFS 100K-3L	75   150	1   2	-	-	25	20	<b>E</b>	-	963-129
IFS 300K-3	150   300	2   5	-	-	50	22	<b>E</b>	-	963-129
Note: 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.									
IFS 6K-3SM	3   6	1   2	1   2	20   40	1	3,8	<b>A</b>	965-228	963-128
IFS 6K-3M	3   6	1   2	1   2	20   40	1	5,0	<b>B</b>	965-228	963-128
IFS 10K-3M	6   15	2   5	2   5	40   100	2	4,8	<b>B</b>	965-228	963-128
IFS 10K-3LM	6   15	2   5	2   5	40   100	2	7	<b>C</b>	965-228	963-128
IFS 30K-3M	15   30	5   10	5   10	100   200	5	7	<b>C</b>	965-228	963-128
IFS 60K-2M	30   60	10   20	10   20	200   400	10	7	<b>C</b>	965-229	963-129
IFS 60K-2LM	30   60	10   20	10   20	200   400	10	13	<b>D</b>	965-229	963-129
IFS 100K-2M	60   150	20   50	20   50	400   1000	25	12	<b>D</b>	965-229	963-129
IFS 100K-2LM	60   150	20   50	20   50	400   1000	25	22	<b>E</b>	965-229	963-129

**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

**EasyTouch**  
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.

**KERN Universal Port (KUP)**  
allows the connection of external KUP interface adapters, e.g. RS-232, RS-485, SB, Bluetooth, WIFI, Analogue, Ethernet etc. for the exchange of data and control commands, without installation effort

**RS-232 Data interface**  
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 intern**  
The balance displays weight, date and time, independent of a printer connection

**GLP/ISO log Printer**  
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, US  
C) EU, CH, GB, US, 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

**Conformity Assessment**  
The time required for conformity assessment 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

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