Counting scale KERN IFS

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 (verifiable), 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

- 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

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 Column height approx. 600 mm, for models with weighing plate size D, E, KERN IFB-A02
- **Rechargeable battery pack internal**, 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											OPTION	FACTORY
CAL EXT	MEMORY	RS 232	KCP PROTOCOL	GLP INTERN	PCS	SUM	PERCENT	TOL	MULTI	DMS	1 DAY	DAkkS +3 DAYS	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 M KERN	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

Pictograms

Internal adjusting:
Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)
CAL INT

Adjusting program CAL:
For quick setting up of the balance's accuracy. External adjusting weight required
CAL EXT

Easy Touch:
Suitable for the connection, data transmission and control through PC, tablet or smartphone
EASY-T

Memory:
Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.
MEMORY

Alibi memory:
Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.
ALIBI

Data interface RS-232:
To connect the balance to a printer, PC or network
RS 232

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
RS 485

USB data interface:
To connect the balance to a printer, PC or other peripherals
USB

Bluetooth* data interface:
To transfer data from the balance to a printer, PC or other peripherals
BT

WLAN data interface:
To transfer data from the balance to a printer, PC or other peripherals
WLAN

Control outputs (optocoupler, digital I/O):
To connect relays, signal lamps, valves, etc.
SWITCH

Analogue interface:
to connect a suitable peripheral device for analogue processing of the measurements
ANALOG

Interface for second balance:
For direct connection of a second balance
DUAL

Network interface:
For connecting the scale to an Ethernet network
LAN

Wireless data transfer:
between the weighing unit and the evaluation unit using an integrated radio module
RC

*The *Bluetooth*® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by KERN & SOHN GmbH is under license. Other trademarks and trade names are those of their respective owners.

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
KCP PROTOCOL

GLP/ISO log:
The balance displays serial number, user ID, weight, date and time, regardless of a printer connection
GLP INTERN

GLP/ISO log:
With weight, date and time. Only with KERN printers
GLP PRINTER

Piece counting:
Reference quantities selectable. Display can be switched from piece to weight
PCS

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 A

Recipe level B:
Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display
RECIPE B

Recipe level C:
Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, multiplier function, adjustment of recipe when dosages are exceeded or barcode recognition
RECIPE C

Totalising level A:
The weights of similar items can be added together and the total can be printed out
SUM A

Percentage determination:
Determining the deviation in % from the target value (100 %)
PERCENT

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
UNIT

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
TOL

Hold function:
(Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value
MOVE

Protection against dust and water splashes IPxx:
The type of protection is shown in the pictogram.
IP

Stainless steel:
The balance is protected against corrosion
INOX

Suspended weighing:
Load support with hook on the underside of the balance
UNDER

Battery operation:
Ready for battery operation. The battery type is specified for each device
BATT

Rechargeable battery pack:
Rechargeable set
ACCU

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
MULTI

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

Power supply:
Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request
230 V

Weighing principle: Strain gauges
Electrical resistor on an elastic deforming body
DMS

Weighing principle: Tuning fork
A resonating body is electromagnetically excited, causing it to oscillate
T-FORK

Weighing principle: Electromagnetic force compensation
Coil inside a permanent magnet. For the most accurate weighings
FORCE

Weighing principle: Single cell technology:
Advanced version of the force compensation principle with the highest level of precision
SC TECH

Verification possible:
The time required for verification is specified in the pictogram
M +3 DAYS

DAkkS calibration possible:
The time required for DAkkS calibration is shown in days in the pictogram
DAkkS +3 DAYS

Package shipment:
The time required for internal shipping preparations is shown in days in the pictogram
1 DAY

Pallet shipment:
The time required for internal shipping preparations is shown in days in the pictogram
2 DAYS

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, GB, FR, IT, ES, NL, PL
- Conformity evaluation and reverification of balances and test weights

Your KERN specialist dealer: