

The new FCB: Checkweighing and portioning scale with up to three interfaces

Features

- Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- Compact size, practical for small spaces
- Industry 4.0: Data and control commands can be exchanged through the KERN Universal Port using one interface, which can be connected to the housing, or through three parallel interfaces using the KUP Extension box. The following interfaces are available as an option: RS-232, USB, Ethernet, WiFi, Bluetooth
- Data query and remote control of the balance using a computer or CRM/ERP systems using the KERN Communication Protocol
- For further information on KUP and KCP see page 20/21
- High mobility: Thanks to battery operation/ rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department, etc.)

- Weighing with tolerance range (checkweighing): Input of two upper and two lower limit values through four arrow keys. An audible and visual signal assists with the portioning, dispensing or grading
- Summation of weight values
- Protective working cover included with delivery

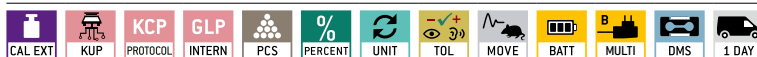
Technical data

- Backlit LCD display, digit height 24 mm
- Dimensions weighing surface, stainless steel, WxD 252x225 mm
- Overall dimensions WxDxH 322x267x91 mm
- Optional battery operation, 4x1.5 V AA not included in scope of delivery, operating time up to 20 h
- Net weight approx. 3,8 kg
- Permissible ambient temperature 0 °C/40 °C

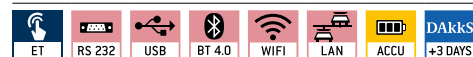
Accessories

- Protective working cover, scope of delivery 5 items, KERN YBA-A14S05
- **1** Signal lamp for visual support of weighing with tolerance range. connection is only possible in combination with KUP-01 (RS 232 interface), KERN CFS-A03
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01
- External data interface RS-232, interface cable included, KERN KUP-01
- External data interface USB, interface cable included, KERN KUP-03
- Interface adapter Ethernet, KERN KUP-04
- Interface adapter WiFi, KERN KUP-05
- Bluetooth interface adapter, KERN KUP-06
- **2** Extension box for connecting up to three interfaces in parallel, KERN KUP-13
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



| Model | Weighing capacity [Max] kg | Readability [d] g | Reproducibility g | Linearity g | Smallest part weight (Normal) g/piece | Resolution Points | Options DAkKS Calibr. Certificate DAkKS KERN |
|----------------|----------------------------|-------------------|-------------------|-------------|---------------------------------------|-------------------|--|
| KERN FCB 6K-5 | 6 | 0,05 | 0,05 | ± 0,15 | 0,5 | 120.000 | 963-128 |
| KERN FCB 8K0.1 | 8 | 0,1 | 0,1 | ± 0,3 | 1 | 80.000 | 963-128 |
| KERN FCB 12K-4 | 12 | 0,1 | 0,1 | ± 0,3 | 1 | 120.000 | 963-128 |
| KERN FCB 12K1 | 12 | 1 | 1 | ± 3 | 10 | 12.000 | 963-128 |
| KERN FCB 30K-4 | 30 | 0,2 | 0,2 | ± 0,6 | 2 | 150.000 | 963-128 |
| KERN FCB 30K1 | 30 | 1 | 1 | ± 3 | 10 | 30.000 | 963-128 |

NEW New model

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

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

ET **EasyTouch**
Suitable for the connection, data transmission and control through PC or tablet

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

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

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

RS 485 **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 **USB Data interface**
To connect the balance to a printer, PC or other peripherals

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

WIFI **WIFI Data interface**
To transfer data from the balance to a printer, PC or other peripherals

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

D/A ANALOG **Analogue interface**
to connect a suitable peripheral device for analogue processing of the measurements

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

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

KCP PROTOCOL **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 INTERN **GLP/ISO log intern**
The balance displays weight, date and time, independent of a printer connection

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

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

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

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

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

UNIT **Weighing units**
Can be switched to e.g. nonmetric units. See balance model. Please refer to KERN's website for more details

TOL **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

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

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

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

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

ACCU **Rechargeable battery pack**
Rechargeable set

MULTI **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

230 V **Plug-in power supply**
230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available

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

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

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

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

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

M +3 DAYS **Conformity Assessment**
The time required for conformity assessment is specified in the pictogram

DAkkS +3 DAYS **DAkkS calibration possible (DKD)**
The time required for DAkkS calibration is shown in days in the pictogram

ISO +4 DAYS **Factory calibration (ISO)**
The time required for Factory calibration is shown in days in the pictogram

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

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

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