KERN BALANCES & TEST SERVICES CATALOGUE 2019

Stainless steel bench scales KERN FOB-NL

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Features

- Stainless steel design of the housing and weighing plate. Its smooth surfaces make it simple to clean
- Your support in a **HACCP**-compliant quality system
- **High mobility:** thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations (kitchen, sales office, cafeteria, Food industry-Laboratory etc.)
- Protection against dust and water splashes IP67 (only when using battery)

Technical data

- Large backlit LCD display, digit height 25 mm, stainless steel
- Overall dimensions W×D×H 285×255×90 mm
- Ready for use: Batteries included, 4×1.5 V AA, operating time up to 48 h
- Net weight approx. 3,8 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN FOB-A13S05
- Mains adapter external, not included, not suitable for model FOB 3K-4NL, KERN FOB-A01
- 2 Tare pan made of stainless steel, ideal for weighing loose small parts, fruit, vegetables etc., W×D×H 370×240×20 mm, KERN RFS-A02

| | C | 666 | = | m | | | | DAkkS |
|---------|------|-------|------|------|-----|-------|-------|---------|
| CAL EXT | UNIT | IP 67 | INOX | BATT | DMS | 1 DAY | 230 V | +3 DAYS |
| | | | | | | | 1 | |

OPTION

| Model | Weighing capacity | Readability | Weighing plate | Option | | | |
|-----------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|--------|---------------------------|--|--|
| | | | W×D | | DAkkS Calibr. Certificate | | |
| | [Max] | [d] | | | DAkkS | | |
| KERN | kg | g | mm | | KERN | | |
| FOB 3K-4NL 🔤 | 3 | 0,2 | 252×200 | | 963-127 | | |
| Dual-range balance switches automatically to the next largest weighing capacity [Max] and readibility [d] | | | | | | | |
| FOB 7K-4NL | 5 7,5 | 0,5 1 | 252×200 | | 963-128 | | |
| FOB 10K-3NL | 8 15 | 1 2 | 252×200 | | 963-128 | | |
| FOB 30K-3NL | 16 30 | 2 5 | 252×200 | | 963-128 | | |

🔤 New model

STANDARD







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PROTOCOL



Internal adjusting:

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

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 Memory:

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

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-485 data interface:

• 6534 • To connect the balance to a printer, PC or other RS 485 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: ₿ BT

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



WLAN 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



ANALOG

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



Network interface: For connecting the scale to an Ethernet network

| ((a)) | |
|-------|--|
| (N) | |
| RC | |

Wireless data transfer:

between the weighing unit and the evaluation unit using an integrated radio module

*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 – 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 bestequipped 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

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

digital systems



PCS

With weight, date and time. Only with KERN PRINTER printers

KERN Communication Protocol (KCP):

It is a standardized interface command set for

KERN balances and other instruments, which

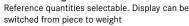
parameters and functions of the device. KERN

devices featuring KCP are thus easily integrated

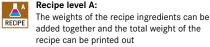
with computers, industrial controllers and other

allows retrieving and controlling all relevant

Piece counting:



Recipe level A:



Recipe level B:

Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display

Recipe level C: ∠^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

Totalising level A:

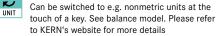
The weights of similar items can be added SUM together and the total can be printed out



Percentage determination:

Determining the deviation in % from the target value (100 %)

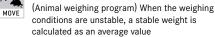
Weighing units: S

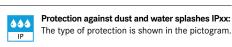


Weighing with tolerance range: ⊙ ີ 🤊 ୬ TOL

(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

M--Hold function:





KERN

Stainless steel:

The balance is protected against corrosion

Suspended weighing:

Load support with hook on the underside of the balance

Battery operation:

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



ΙΝΟΧ

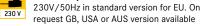
Rechargeable battery pack: Rechargeable set

MULTI

Universal mains adapter:

with universal input and optional input socket adapters for A) EU, CH; B) EU, CH, GB, USA; C) EU, CH, GB, USA, AUS

Mains adapter:



Power supply:



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



T-FORK

s T

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

(((**U**)))

Weighing principle: Tuning fork: A resonating body is electromagnetically

excited, causing it to oscillate

Weighing principle: Electromagnetic force compensation

FORCE 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

The time required for DAkkS calibration is

The time required for internal shipping

The time required for internal shipping

preparations is shown in days in the pictogram

preparations is shown in days in the pictogram



Verification possible: The time required for verification is specified in

DAkkS calibration possible:

shown in days in the pictogram

Package shipment:

Pallet shipment:

the pictogram



+3 DAYS

1 DAY

2 DAYS

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