



## KERN FCF 3K-4 Compact Bench Scale User Guide

[Home](#) » [KERN](#) » KERN FCF 3K-4 Compact Bench Scale User Guide 

### KERN FCF 3K-4 Compact Bench Scale User Guide



#### Contents

- [1 Features](#)
- [2 Technical data](#)
- [3 Accessories](#)
- [4 Pictograms](#)
- [5 KERN – Precision is our business](#)
- [6 Documents / Resources](#)
- [7 Related Posts](#)

#### Features

- Simple and convenient 5-key operation
- Very fast display: steady weight values within 3 s
- Ideal as a
  - compact letter and parcel scale, especially in constricted spaces
  - grading or commissioning balance or simple checkweigher in production or dispatch
  - Checkweigher in the catering trade, cafeterias, school kitchens

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.)

- Protective working cover included with delivery

## Technical data

- Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, W×D 253×228 mm
- Overall dimensions W×D×H 270×345×106 mm
- Optional battery operation, 9 V block not included in scope of delivery, operating time up to 20 h, AUTO-OFF function to preserve the battery
- Net weight approx. 2,8 kg
- Permissible ambient temperature 5 °C/35 °C

## Accessories

- Protective working cover, scope of delivery: 5 items, KERN FCF-A01S05
- Internal rechargeable battery pack, operating time up to 120 h without backlight, charging time approx. 16 h, KERN GAB-A04

## STANDARD



## OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Smallest part weight [Normal] g/piece	Option
						DAkkS Calibr. Certificate
						DAKKS KERN
FCF 3K-4	3	0,1	0,1	$\pm 0,3$	2	963-127
FCF 30K-3	30	1	1	$\pm 3$	20	963-12820

## 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 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.



### 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. 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, USA; C) EU, CH, GB, USA, 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



**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

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-measure – ment 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**

### **Documents / Resources**



#### **[KERN FCF 3K-4 Compact Bench Scale](#) [pdf] User Guide**

FCF 3K-4, Compact Bench Scale, FCF 3K-4 Compact Bench Scale, FCF 30K-3, FCF Series