

Stainless steel bench scales KERN FOB · FOB-LM









# Stainless steel balance with special protection against humidity, also with EC-Type Approval [M]

## **Features**

- II NEW: Innovative weighing with tolerance range (Checkweighing): The colour of the display changes depending on the weight (too light/ok/too heavy) and is an aid to help with portioning, dosing and grading
- · Stainless steel design of the housing and weighing plate. Its smooth surfaces make it simple to clean
- · 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.)
- Your support in a **HACCP**-compliant quality
- · Secure and non-slip positioning with rubber feet
- Increased protection against humidity through waterproof silicone sealing of the load cell, electronics and soldering joints

· Check the weighing capacity which is in use at the press of a button (net/gross weight)

## Technical data

- · Large backlit LCD display, digit height 25 mm
- · Dimensions weighing surface, Stainless steel
  - M W×D 165×175 mm, see larger picture
- **B** W×D 215×215 mm · Overall dimensions W×D×H
- A 175×235×62 mm.
- B 220×305×80 mm
- · KERN FOB-LM: Optional battery operation, 4×1.5 V AA, standard, operating time up to 48 h, AUTO-OFF function to preserve the battery
- · Net weight
- A approx. 2,0 kg, B approx. 3,8 kg
- · Permissible ambient temperature
- A KERN FOB: 5 °C/35 °C,
- B KERN FOB-LM: -10 °C/40 °C

## **Accessories**

- Protective working cover, scope of delivery: 5 items, KERN FOB-A13S05
- KERN FOB: Rechargeable battery pack internal, operating time up to 24 h without backlight, charging time approx. 8 h, KERN FOB-A07
- · Mains adapter external, not included, can be reordered, 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

# STANDARD















							OPTION			
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	INOX	BATT	230 V	DMS	1 DAY		ACCU	+3 DAY	'S +3	DAYS
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<b>KERN</b> kg	g	g	g			KERN		KERN		
FOB 1.5K0.5 1,5	0,5	-	-	A		-		963-127		
FOB 3K1 3	1	-	-	Α		-		963-127		
FOB 6K2 6	2	-	-	Α		-		963-128		
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.										

erification at the factory, we need to know the full address of the loc FOB 1K-4LM 965-227 963-127 0.5 В 10 FOB 3K-3LM 3 20 В 965-227 963-127 963-128 965-228 FOB 10K-3LM

New model

# **KERN BALANCES & TEST SERVICES CATALOGUE 2019**



## **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, tablet or smartphone



#### 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



## 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



## Interface for second balance:

For direct connection of a second balance



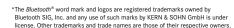
## Network interface:

For connecting the scale to an Ethernet network



## Wireless data transfer:

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





#### **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



## 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



## 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 at the touch of a key. 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.



#### 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 specified for each device



## Rechargeable battery pack:

Rechargeable set



#### 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:

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



#### Power supply:

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:

The time required for DAkkS 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

# 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

The KERN DAkkS calibration laboratory today is one of the most modern and best-equipped DAkkS calibration laboratories for balances, test weights and force-measure-

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.

## . . .

- 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: