KERN BALANCES & TEST SERVICES CATALOGUE 2019

Stainless steel bench scales KERN FOB · FOB-LM











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

Features

- INEW: 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 system
- · Secure and non-slip positioning with rubber feet
- Increased protection against humidity through waterproof silicone sealing of the load cell, electronics and soldering joints

IP 67 INOX

BATT

· 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 W×D 165×175 mm, see larger picture W×D 215×215 mm
- Overall dimensions W×D×H A 175×235×62 mm.
- 220×305×80 mm

OPTION

ACCU

DAkkS

+3 DAYS

- 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 KERN FOB: 5 °C/35 °C, KERN FOB-LM: -10 °C/40 °C

FACTORY

М

+3 DAYS

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

1 OB-EW	I OD-LIVI		108	I OD-LIVI					
Model	Weighing	Readability	Verification	Minimal load	Weighing plate		Option		
	capacity		value				Verification DAkkS Calibr. Certific		ertificate
	[Max]	[d]	[e]	[Min]			MIII	DAkkS	
KERN	kg	g	g	g			KERN	KERN	
FOB 1.5K0.5	1,5	0,5	-	-	A		-	963-127	
FOB 3K1	3	1	-	-	A		-	963-127	
FOB 6K2	6	2	-	-	A		-	963-128	
Note: F	or applications th	nat require verific	ation, please ord	ler verification at	the same time, i	nitial verificat	ion at a later da	ate is not possible.	
		Verification a	t the factory, we	need to know th	e full address of t	he location o	f use.		
FOB 1K-4LM	1,5	0,5	0,5	10	В		965-227	963-127	
FOB 3K-3LM	3	1	1	20	В		965-227	963-127	
FOB 10K-3LM	15	5	5	100	В		965-228	963-128	
.									

New model

STANDARD

CAL EXT

TOL

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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 RS 232 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:

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



For direct connection of a second balance

Interface for 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

*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



PCS

PROTOCOL

GLP/ISO log:

The balance displays serial number, user ID, weight, date and time, regardless of a printer connection

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

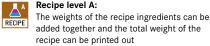


With weight, date and time. Only with KERN PRINTER printers

Piece counting:

Reference quantities selectable. Display can be switched from piece to weight

Recipe level A:



Recipe level B:

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

> name and target value of the recipe ingredients. User guidance through display, multiplier

function, adjustment of recipe when dosages

Recipe level C: Internal memory for complete recipes with



Totalising level A:

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

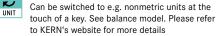
are exceeded or barcode recognition



Percentage determination:

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

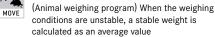
Weighing units: C

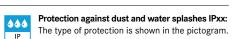


Weighing with tolerance range: ○ 3)

(Checkweighing) Upper and lower limiting can TOL 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:

Rechargeable set

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



ΙΝΟΧ

Rechargeable battery pack:



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 230 V 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



SC TECH

Μ

+3 DAYS

DAkkS

+3 DAYS

1 DAY

, b

2 DAYS

Your KERN specialist dealer:

Gamle Drammensvei 107

Impex Produkter AS

1363 Høvik

www.impex.no

info@impex.no

Tel.: 22 32 77 20

Weighing principle: Tuning fork: A resonating body is electromagnetically

excited, causing it to oscillate

s T

Weighing principle: Electromagnetic force compensation

Weighing principle: Single cell technology:

The time required for verification is specified in

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

FORCE Coil inside a permanent magnet. For the most accurate weighings

Verification possible:

Package shipment:

Pallet shipment:

DAkkS calibration possible:

shown in days in the pictogram

the pictogram