IP protected bench scale KERN FFN-N









All-round bench scale, protected by stainless steel and IP65 rating, now also with EC type approval [M]

Features

- 🖬 Ideal for the increased hygienic requirements in the food, pharmaceutical and chemical industries
- 2 Ideal for the robust industrial applications
- 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.)
- · Stainless steel design of the housing and weighing plate. Its smooth surfaces make it simple to clean
- · Recessed grips on the underside of the scale for easy transportation
- S Protection against dust and water splashes IP65

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- Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, W×D 230×190 mm
- Overall dimensions W×D×H 230×300×130 mm
- · Rechargeable battery pack internal, operating time up to 50 h without backlight, charging time approx. 12 h
- Net weight approx. 4,0 kg
- · Permissible ambient temperature FFN-N: 0 °C/40 °C FFN-NM: -10 °C/40 °C

Accessories

• 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								FACTORY	
	665		ACCU		1 DAY	2 _{YEARS} WARRANTY	DAkkS +3 DAYS	H3 DAYS	
	2								

Model	Weighing range	Readout	Verification value	Minimal load		Options				
						Verification		DAkkS Calibr. Certificate		
	[Max]	[d]	[e]	[Min]		MIII		DKD		
KERN	kg	g	g	g		KERN		KERN		
FFN 1K-4N	1,5	0,2	-	-		-		963-127		
FFN 3K0.5IPN	3	0,5	-	-		-		963-127		
FFN 6K1IPN	6	1	-	-		-		963-128		
FFN 15K2IPN	15	2	-	-		-		963-128		
FFN 25K5IPN	25	5	-	-		-		963-128		
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.										
Verification at the factory, we need to know the full address of the location of use.										
FFN 1K-4NM	1,5	0,5	0,5	10		965-227		963-127		
FFN 3K1IPM	3	1	1	20		965-227		963-127		
FFN 6K2IPM	6	2	2	40		965-228		963-128		
FFN 15K5IPM	15	5	5	100		965-228		963-128		
FFN 25K10IPM	25	10	10	200		965-228		963-128		

KERN 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.



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



Alibi memory: 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. High tolerance against electromagnetic disturbance.



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.



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



Network interface: For connecting the scale



to an Ethernet network. With KERN products you can use a universal RS-232/LAN converter.



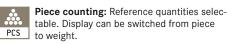
Wireless data transfer: between the weighing unit and the evaluation unit using an integrated radio module.



GLP/ISO log: The balance displays the weight, date and time, regardless of a printer connection.



GLP/ISO log: With weight, date and time. Only with KERN printers.



Recipe level A: Separate memory for the weight of the tare container and the recipe RECIPE ingredients (net total).



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.

Weighing units: Can be switched to e.g. non-

metric units at the touch of a key. See balance

Weighing with tolerance range: Upper and

lower limiting values can be programmed indivi-

dually for e.g. dosing, sorting and portioning.

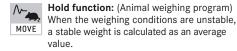
model. Please refer to KERN's website for

Percentage determination: Determining <u>70</u> the deviation in % from the target value PERCENT (100 %).

more details.

S UNIT





a stable weight is calculated as an average value. Protection against dust and water splashes **666** IPxx: The type of protection is shown in the IΡ



ATEX explosion protection: Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device.

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 BATT for each device.

KERN – Precision is our business

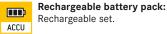
To ensure the high precision of your balance KERN offers you the the appropriate test weight in the international OIML error limit classes E1-M3 from 1 mg - 2500 kg. In combination with a DAkkS calibration certificate the best pre-requisite for proper balance calibration.

The KERN DAkkS calibration laboratory today is one of the most modern and best-equipped DAkkS calibration laboratories for balances, test weights and forcemeasurement 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
 - SOHN GmbH is under license. Other trademarks and trade names are those of their respective owner



Universal mains adapter: with universal input and optional input socket adapters for MULTI A) EU, GB B) EU, GB, CH, USA C) EU, GB, CH, USA, AUS

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



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



Weighing principle: Strain gauge 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.

<u>آ</u>بوا SC TECH



Verification possible:

The time required for verification is specified +3 DAYS in the pictogram.



DAkkS calibration possible (DKD): 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.



Warranty: The warranty period is shown in the pictogram.

Your KERN specialist dealer:



INOX

pictogram.