



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

**Features**

- **1** 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
- **3** Protection against dust and water splashes IP65

**Technical data**

- Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, WxD 230x190 mm
- Overall dimensions WxDxH 230x300x130 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., WxDxH 370x240x20 mm, KERN RFS-A02

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimal load [Min] g	Options		
					Verification		DAkkS Calibr. Certificate
					M KERN		DKD 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).



**Piece counting:** Reference quantities selectable. Display can be switched from piece to weight.



**Rechargeable battery pack:** Rechargeable set.



**Adjusting program CAL:** For quick setting up of the balance's accuracy. External adjusting weight required.



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



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



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



**Recipe level B:** Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display.



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



**Alibi memory:** Electronic archiving of weighing results, complying with the 2014/31/EU standard.



**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.



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



**Data interface RS-232:** To connect the balance to a printer, PC or network.



**Weighing principle: Strain gauge**  
Electrical resistor on an elastic deforming body.



**RS-485 data interface:** To connect the balance to a printer, PC or other peripherals. High tolerance against electromagnetic disturbance.



**Totalising level A:** The weights of similar items can be added together and the total can be printed out.



**Weighing principle: Tuning fork**  
A resonating body is electromagnetically excited, causing it to oscillate.



**USB data interface:** To connect the balance to a printer, PC or other peripherals.



**Percentage determination:** Determining the deviation in % from the target value (100 %).



**Weighing principle: Electromagnetic force compensation** Coil inside a permanent magnet. For the most accurate weighings.



**Bluetooth\* data interface:** To transfer data from the balance to a printer, PC or other peripherals.



**Weighing units:** Can be switched to e.g. non-metric units at the touch of a key. See balance model. Please refer to KERN's website for more details.



**Weighing principle: Single cell technology**  
Advanced version of the force compensation principle with the highest level of precision.



**WLAN data interface:** To transfer data from the balance to a printer, PC or other peripherals.



**Weighing with tolerance range:** Upper and lower limiting values can be programmed individually for e.g. dosing, sorting and portioning.



**Verification possible:**  
The time required for verification is specified in the pictogram.



**Control outputs (optocoupler, digital I/O):** To connect relays, signal lamps, valves, etc.



**Hold function:** (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value.



**DAkKS calibration possible (DKD):** The time required for DAkKS calibration is shown in days in the pictogram.



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



**Protection against dust and water splashes IPxx:** The type of protection is shown in the pictogram.



**Package shipment:** The time required for internal shipping preparations is shown in days in the pictogram.



**Network interface:** For connecting the scale to an Ethernet network. With KERN products you can use a universal RS-232/LAN converter.



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



**Pallet shipment:** The time required for internal shipping preparations is shown in days in the pictogram.



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



**Stainless steel:** The balance is protected against corrosion.



**Warranty:** The warranty period is shown in the pictogram.



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



**Suspended weighing:** Load support with hook on the underside of the balance.



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



**Battery operation:** Ready for battery operation. The battery type is specified 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 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

## Your KERN specialist dealer: