



High-quality precision balance with automatic internal adjustment, also with EC type approval [M]

**Features**

- **Easy to use:** All primary functions have their own key on the keypad
- **Automatic internal adjustment,** time-controlled every 2 h, guarantees high degree of accuracy and makes the balance independent of its location
- **Capacity display:** A bar lights up to show how much of the weighing capacity is still available
- KERN EWJ/EWJ-H/EWJ-M: **USB interface** for transferring weighing data to the PC, printer etc., possibly in conjunction with KERN DBS-A02
- **Draft shield** standard on models KERN EWJ 300-3, EWJ 600-2SM, EWJ 600-2M, weighing space W×D×H 160×145×80 mm
- **KERN EWJ 300-3H: Large glass draught shield** with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 175×155×217 mm

- **Protective working cover** included with delivery

**Technical data**

- Large backlit LCD display, digit height 16,5 mm
- Dimensions weighing surface
  - A Ø 80 mm
  - B Ø 120 mm, see larger picture
  - C W×D 155×145 mm
- Overall dimensions W×D×H
  - 220×315×90 mm (without draught shield)
  - 220×340×321 mm (incl. draught shield)
- Permissible ambient temperature
  - KERN EWJ: 15 °C/35 °C
  - KERN EWJ-M: 15 °C/30 °C

**Accessories**

- **Protective working cover,** scope of delivery: 5 items, KERN EWJ-A04S05, € 40,-
- **Rechargeable battery pack internal,** operating time up to 15 h without backlight, charging time approx. 4 h, KERN KFB-A01, € 35,-
- KERN EWJ/-EWJ-H/EWJ-M: **USB Accessory Kit** for bi-directional data exchange between balance/moisture analyser and computer. Scope of delivery: USB cable, driver, Software BalanceConnection, KERN DBS-A02, € 290,-
- **RS-232/WiFi adapter** for wireless connection to networks and WiFi capable devices, such as tablets, laptops or smartphones, KERN YKI-03, € 690,-
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, € 290,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD										OPTION		FACTORY	
not EWJ-SM		not EWJ-SM								+3 DAYS		+3 DAYS	
										EWJ-M			

Model	Weighing capacity [Max] g	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option			
								Verification		DAkKS Calibr. Certificate	
									€	DAkKS	€
KERN EWJ 300-3	300	0,001	-	-	± 0,005	A	450,-	-	-	963-127	72,-
KERN EWJ 300-3H	300	0,001	-	-	± 0,005	A	490,-	-	-	963-127	72,-
KERN EWJ 3000-2	3000	0,01	-	-	± 0,05	B	430,-	-	-	963-127	72,-
Note: For applications that require verification, please order verificati on 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.											
KERN EWJ 600-2SM	600	0,01	0,1	0,5	± 0,03	B	350,-	965-216	66,-	963-127	72,-
KERN EWJ 600-2M	600	0,01	0,1	0,5	± 0,03	B	360,-	965-216	66,-	963-127	72,-
KERN EWJ 6000-1SM	6000	0,1	1	5	± 0,3	C	340,-	965-217	77,-	963-128	88,-
KERN EWJ 6000-1M	6000	0,1	1	5	± 0,3	C	350,-	965-217	77,-	963-128	88,-

# 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



**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. For details see page 206



**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, see page 161/162



**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. For details see page 70



**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 (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 for internal shipping preparations is shown in days in the pictogram