



The moisture analyser for heavy, high-volume samples

Features

- Backlit LCD display, digit height 17 mm
 - 1 Current moisture content in %
 - 2 Unit for displaying the results
 - 3 Drying process active
- **Halogen quartz glass heater** 400 W
- **Internal memory** for automatic sequence of 5 complete drying processes
- The last value measured remains on the display until it is replaced by a new measurement

- **10 sample plates included**
- **Application handbook:** On the internet, you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser

Accessories

- **Sample plates aluminium**, \varnothing 90 mm. Unit of 80 pieces, KERN MLB-A01A
- **Round fiberglass filter** e.g. for samples that splash or become encrusted. Box with 100 pieces, KERN RH-A02
- **4 Temperature calibration set** consists of measuring sensor and display device, KERN DLB-A01
- **Protective working cover**, standard, can be re-ordered, scope of delivery: 5 items, KERN ALJ-A01S05
- **Thermal printer**, KERN YKB-01N



Model KERN	DLB 160-3A
Readout [d]	0,001 g/0,01 %
Weighing range [Max]	160 g
Reproducibility, weight of sample 10 g	0,05 %
Display after drying (Display can be switched over at any time)	
Moisture [%] = Moisture content (M) from wet weight (W)	0-100 %
Dry content [%] = Dry weight (D) from W	100-0 %
ATRO [%] [(W-D) : D] · 100%	0-999 %
Moisture content (M)	Absolute value in [g]
Temperature range	35 °C - 160 °C in steps up to 1 °C
Drying modes	Standard drying Rapid drying, Pre-heat level, can be switched on
Switch off criteria	<ul style="list-style-type: none"> • Automatic unrestricted switch off (Selectable loss in weight 0,1%-9,9% in 60 s) • Time controlled switch off (1 min - 99 min) • Manual switch off at the press of a button
Log output	<ul style="list-style-type: none"> • Continuous output (residual weight) • At the end of the drying process, manual or automatic (Only in connection with KERN YKB-01N printer or PC)
Overall dimensions W×D×H	210×340×225 mm
Net weight	approx. 4,2 kg
Option DAkkS Calibr. Certificate	963-127

Price reduction

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.	 Totalising level A: The weights of similar items can be added together and the total can be printed out.	 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.	 Percentage determination: Determining the deviation in % from the target value (100 %).	 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.	 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: 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 with tolerance range: Upper and lower limiting values can be programmed individually for e.g. dosing, sorting and portioning.	 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.	 Hold function: (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value.	 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.	 Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram.	 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.	 ATEX explosion protection: Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device.	 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.	 Stainless steel: The balance is protected against corrosion.	 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.	 Suspended weighing: Load support with hook on the underside of the balance.	 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.	 Battery operation: Ready for battery operation. The battery type is specified for each device.	
 GLP/ISO log: With weight, date and time. Only with KERN printers.		

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: