

LAB & INDUSTRY EQUIPMENT

BUCH  HOLM



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Moisture analyser KERN DBS



Moisture analyser with graphics display and 10 memories for drying programs

STANDARD

CAL EXT

MEMORY

RS 232

GLP PRINTER

UNIT

230 V

NTS FORCE

1 DAY WARRANTY

OPTION

USB

DAkkS +3 DAYS

Model KERN	DBS 60-3
Readout [d]	0,001 g / 0,01 %
Weighing range [Max]	60 g
Reproducibility weight of sample 2 g	0,15 %
Reproducibility, weight of sample 10 g	0,02 %
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 [g] (M)	Absolute value in [g]
Temperature range	50 - 200 °C in steps up to 1 °C
Drying modes	☐ Standard drying ☐ Drying in levels ☐ Gentle drying ☐ Rapid drying
Switch off criteria	• Automatic unrestricted switch off (Selectable loss in weight 0,01%-0,1% in 30 s) • Time controlled switch off (1 min - 12 h) • Manual switch off at the press of a button
Recall of measurement	Interval can be set from 1 sec - 10 min (Only when used with printer KERN YKB-01 or PC)
Overall dimensions WxDxH	202x336x157 mm
Net weight	approx. 4,2 kg
Option DAkkS Calibr. Certificate	963-127



Features

- Backlit LCD display, digit height 15 mm
- 1 Drying program
- 2 Previous drying time
- 3 Current temperature
- 4 Unit of the shown result, e.g. moisture
- 5 Current moisture content in %
- 6 Drying mode/Status display drying
- Halogen quartz glass heater 400 W
- Observation window above the sample, useful during initial setting
- Internal memory for automatic run of 10 drying programs and 100 drying processes already executed
- The last value measured remains on the display until it is replaced by a new measurement
- Sample description for up to 99 samples, 2 digits, freely programmable, and is printed in the measuring protocol
- Date and time display as standard
- 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, Ø 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
- Temperature calibration set consists of measuring sensor and display device, KERN DBS-A01
- USB interface kit for bi-directional data exchange between moisture analyser and computer. Scope of delivery: USB cable, driver, Software Balance Connection, KERN DBS-A02
- Protective working cover standard. Can be re-ordered, scope of delivery: 5 items, KERN DBS-A03S05
- Thermal printer, KERN YKB-01N

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.



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



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).



Battery operation: Ready for battery operation. The battery type is specified for each device.



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.



Rechargeable battery pack: Rechargeable set.



Alibi memory: Electronic archiving of weighing results, complying with the 2009/23/EC standard.



Recipe level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, adjustment of recipe when dosages are exceeded, multiplier function, barcode.



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



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



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



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.



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



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



Totalising level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, adjustment of recipe when dosages are exceeded, multiplier function, barcode recognition.



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



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



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



WLAN data interface: To transfer data from 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.



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



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.



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



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.



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



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.



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



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.



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



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.



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



Stainless steel: The balance is protected against corrosion.



Warranty: The warranty period is shown in the pictogram.

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 - 2000 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
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DAKkS calibration certificates in the following languages D, GB, F, I, E, NL, PL

Your KERN specialist dealer: