Moisture analyser KERN DAB

NEW

Moisture analyser with user-friendly graphics display and 15 memories for drying programs

STANDARD

| CAL EXT | MEMORY | RS 232 | GLP PRINTER | UNIT | 230 V | DMS | 1 DAY | 3 YEARS WARRANTY |

OPTION

| DAkkS +3 DAYS |

Features

- Backlit LCD display, digit height 14 mm
  - 1 Drying process active
  - 2 Active heating profile
  - 3 Active switch-off criteria
  - 4 Previous drying time
  - 5 Current temperature
  - 6 Moisture display in %
  - 7 Interim result in moisture-%
- **Halogen quartz glass heater** 400 W
- **Observation window above the sample**, useful during initial setting
- **Internal memory** for automatic sequence of 15 complete drying processesand 5 drying processes carried out
- The last value measured remains on the display until it is replaced by a new measurement
- **50 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

Model KERN	DAB 100-3
Readout [d]	0,001 g | 0,01 %
Weighing range [Max]	110 g
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 %
Moisture content (M)	Absolute value in [g]
Temperature range	35 °C - 160 °C in steps up to 1 °C
Drying modes	Standard drying Gentle drying Rapid drying
Switch off criteria	• Automatic switch off (2 mg loss in weight in 45 s) • Time controlled switch off (3 min – 99 h 59 min, 10 s increments) • Manual switch off at the press of a button
Recall of measurement	• At the end of the drying process, manual or automatic (Only in connection with KERN YKC-01)
Overall dimensions WxDxH	240x365x180 mm
Net weight	4,82 kg
Option DAkkS Calibr. Certificate	963-127

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
- 8 **Temperature calibration set** consists of measuring sensor and display device, KERN DAB-A01
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01
- **RS-232/Bluetooth adapter** to connect to Bluetooth capable devices, such as Bluetooth printers, tablets, laptops, smartphones, etc., KERN YKI-02
- **RS-232/WiFi adapter** for wireless connection to networks and WLAN capable devices, such as tablets, laptops or smartphones, KERN YKI-03
- **Thermal printer**, KERN YKB-01N

KERN Pictograms:

Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motordriven). *(CAL INT)*

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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. *(RECIPE C)*

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

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. *(SUM C)*

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

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. *(UNIT)*

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

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

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

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

Stainless steel: The balance is protected against corrosion. *(INOX)*

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

Battery operation: Ready for battery operation. The battery type is specified for each device. *(BATT)*

Rechargeable battery pack: Rechargeable set. *(ACCU)*

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
(MULTI)

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

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

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

Weighing principle: Tuning fork A resonating body is electromagnetically excited, causing it to oscillate. *(T-FORK)*

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

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

Verification possible: The time required for verification is specified in the pictogram. *(M +3 DAYS)*

DAkkS calibration possible (DKD): The time required for DAkkS calibration is shown in days in the pictogram. *(DAkkS +3 DAYS)*

Package shipment: The time required for internal shipping preparations is shown in days in the pictogram. *(1 DAY)*

Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram. *(2 DAYS)*

Warranty: The warranty period is shown in the pictogram. *(3 YEARS WARRANTY)*

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: