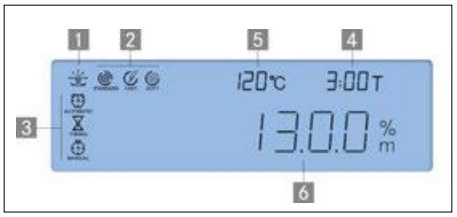
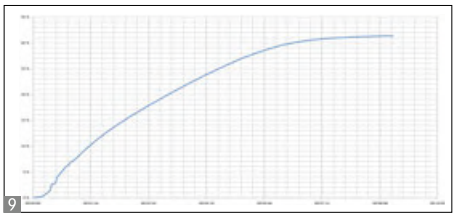
Moisture analyser KERN DAB




## Particularly user-friendly moisture analyser with high-quality halogen quartz glass heater- also available as version with [d] = 10 mg, ideal for recurring rapid tests

### Features

- KERN DAB 200-2: Version with lower resolution, whereby the switch-off criterion is reached faster, which saves time. Ideal for quick tests and spot checks
- Backlit graphic 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 Current moisture content in %
- Halogen quartz glass heater 400 W
- Observation window above the sample, useful during initial setting
- Internal memory for automatic sequence of 15 complete drying processes and 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

STANDARD

CAL EXT · MEMORY · RS 232 · PRINTER · UNIT · 230 V · DMS · 1 DAY

OPTION

DAkkS +3 DAYS

| Model KERN | DAB 200-2 | DAB 100-3 |
|---|---|---|
| Readability [d] | 0,01 g/0,05 % | 0,001 g/0,01 % |
| Weighing capacity [Max] | 200 g | 110 g |
| Reproducibility weight of sample 2 g* | 1,5 % | 0,15 % |
| Reproducibility, weight of sample 10 g* | 0,3 % | 0,03 % |
| 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 | 40 °C–199 °C in steps up to 1 °C | |
| Drying modes | Standard drying<br>Gentle drying<br>Rapid drying | |
| Switch-off criteria | • Automatic switch-off (2 mg loss in weight in 45 s)<br>• Time controlled switch-off (3 min – 99 min 59 s, 10 s increments)<br>• Manual switch-off at the press of a button | |
| Recall of measurement/ Log output | Interval can be set from 1 s – 10 min<br>(Only when used with printer or PC) | |
| Overall dimensions W×D×H | 240×365×180 mm | |
| Net weight | 4,82 kg | |
| | | |
| Option DAkkS Calibr. Certificate | Mass: | KERN 963-127 |
| Option Factory Calibr. Certificate | Temperature: | KERN 964-305 |

* application-dependent

### Accessories

- Sample plates aluminium, ⌀ 90 mm, unit of 80 pieces, KERN MLB-A01A
- Round fiberglass filter high mechanical stability, with organic binder, box of 100 pieces, KERN RH-A02
- Round fiberglass filter, medium mechanical stability, without organic binder, box of 100 pieces, KERN YMF-A01
- 7 Temperature calibration set consists of measuring sensor and display device, KERN DAB-A01.
- 8 Infrared quartz glass heater, temperature range 40 °C-160 °C, Factory Option, KERN DAB-A02
- 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 WiFi capable devices, such as tablets, laptops or smartphones, KERN YKI-03
- 9 Display of the drying process in conjunction with BalanceConnection, KERN SCD-4.0
- Thermal printer, KERN YKB-01N
- Matrix needle printer, to print the weights on normal paper, ideal for long-term archiving, KERN 911-013

## 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 or tablet.

**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.

**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 datatransfer 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

**WiFi 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

**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.

**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

**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. 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.

**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 plug-in power supply:**
with universal input and optional input socket adapters for A) EU, CH, GB; B) EU, CH, GB, USA; C) EU, CH, GB, USA, AUS

**Plug-in power supply:**
230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available

**Integrated power supply unit:**
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

**Factory calibration (ISO):**
The time required for Factory 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 required for internal shipping preparations is shown in days 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 - 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, EN, FR, IT, ES, NL, PL
- Conformity evaluation and reverification of balances and test weights

## Your KERN specialist dealer: