

Moisture Analyzers, KERN

Moisture analysing is an integral part of the manufacture respectively processing of many finished and raw products and significantly affects the quality of the product.

Moisture analysers are particularly often used in the food industry, water management (sewage plants etc.), plastic industry, agriculture, and energy management (bio-energy plants etc.).

You need experience to analyse moisture properly. Different drying processes are used depending on the type of sample and the respective task.

KERN focuses on halogen and infrared drying, the most frequently used drying processes which have a number of advantages:

- Even heating of the sample from above without any risk of burning the surface of the sample
- Low purchasing prices ensure a fast payback period of the device
- Temperature ranges from 35 to 200°C
- High measuring accuracy of up to 0.01 %
- Sufficient capacity reserves, weighing ranges up to 200 g
- Various drying programs (gentle drying, standard drying, step drying, fast drying/Boost)

A particularly convenient feature is the large number of storage spaces in the KERN moisture analysers to which complete drying processes with drying parameters such as duration and temperature of drying, display settings, switch-off criteria etc. can be saved. This helps you to work faster and to achieve reproducible results.

Go to the KERN website to download a helpful application manual for each KERN moisture analyser with plenty of examples, field reports, settings and tips.

Determination of drying parameters

Send us a sample of your product for individual testing on our premises. This helps you to find the optimum settings for the parameters of your moisture analyser to achieve reproducible results. KERN 965-243, 95 EUR/hour plus VAT

Temperature calibration of KERN moisture analysers (works calibration certificate)

To ensure the comparability of the moisture analysis results, the temperature in the heating chamber and thus the sample temperature must be kept accurately. This requires regular temperature calibration, KERN 964-305, 140 EUR plus VAT.

① Moisture analyzer KERN DAB

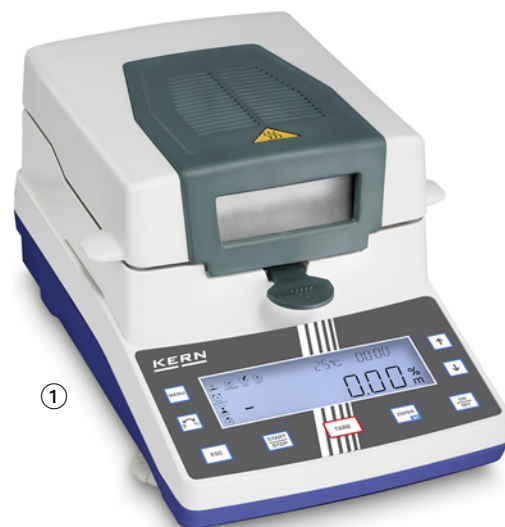
Moisture analyser which is particularly easy to use - now also as a version with [d] = 10 mg, ideal for recurring rapid tests

KERN DAB 200-2: Version with lower resolution which ensures that the switch-off criterion is reached faster to save time. Ideally suited for rapid testing and random sampling. Backlit graphic display, digit height 14mm

All information visible at a glance from the graphic display:

- Drying process active
- Active heating profile
- Active switch-off criterion
- Previous drying time
- Current temperature
- 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 overwritten by a new measurement
- 50 sample plates included
- Application handbook: Online you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser

Model	Increment g/%	Weighing range g	Order No.
DAB 100-3	0.001/0.01	110	10 58 35903
DAB 200-2	0.01/0.05	200	10 58 35902



①



Accessories for KERN DAB

Article	Order No.
Sample plates aluminium KERN MLB-A01A, Ø 90 mm, packaging unit 80 pcs.	10 58 37442
Round fiberglass filter KERN RH-A02, packaging unit 100 pcs. high mechanical stability, with organic binder	10 58 37443
Round fiberglass filter KERN YMF-A01, packaging unit 100 pcs. medium mechanical stability, without organic binder	10 58 37444
Temperature calibration set KERN DAB-A01 consists of measuring sensor and display device	10 58 35901
Infra-red glass emitter KERN DAB-A02 Temperature range 40°C – 160°C, Factory Option	10 58 37445
RS-232 Ethernet adapter KERN YKI-01 for connection to an IP-based Ethernet network	10 58 39501
RS-232 Bluetooth adapter KERN YKI-02 for connection to Bluetooth-capable devices, such as Bluetooth printers, tablets, laptops, smartphones etc.	10 58 39502
RS-232 WLAN adapter KERN YKI-01 for wireless connection to networks and WLAN-capable devices, such as tablets, laptops, smartphones etc.	10 58 39503
Software BalanceConnection SCD-4.0 for visualisation of the drying process	10 58 39040
Thermal printer KERN YKB-01N	10 58 35005
Matrix needle printer KERN 911-013 for printing out weighing values on standard paper for long-term archiving	10 58 37446

② Moisture analyzer DBS

Moisture analyser with premium single-cell weighing system for excellent stability, reliability, and reaction speed

- Tip: Suitable for samples with low moisture content, e.g. plastics
- Backlit LCD graphic display with digit height 15 mm
- All information visible at a glance in the graphic display:
 - Drying process active
 - Previous drying time
 - Current temperature
 - Unit of the shown result
 - Current moisture content in %
 - Active heating profile
 - Halogen quartz glass heater 400 W
- Excellent temperature control thanks to halogen technology, suitable for temperature-sensitive samples
- Internal memory for automatic run of 10 drying programs and 100 drying processes already executed
- The last value measured remains on the display until overwritten by a new measurement
- Password protection to prevent the manipulation of stored settings, data etc.
- Sample description for up to 99 samples, 2 digits, freely programmable, printed in the measuring protocol
- Date and time display as standard
- USB data interface for transfer of weighing data to PC or printer (can be used only in connection with accessory KERN DBS-A02)
- 10 sample plates included
- Protective working cover included with delivery
- Application handbook: Online you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser

Model	Increment g/%	Weighing range g	Heater	Order No.
DBS 60-3	0.001/0.01	60	halogen	10 58 35603



②



Accessories for KERN DBS

Article	Order No.
Protective working cover KERN DBS-A03S05, packaging unit 5 pcs.	10 58 37447
Sample plates aluminium KERN MLB-A01A, Ø 90 mm, packaging unit 80 pcs.	10 58 37442
Round fiberglass filter KERN RH-A02, packaging unit 100 pcs.	10 58 37443
high mechanical stability, with organic binder	
Temperature calibration set KERN DBS-A01	10 58 35103
consists of measuring sensor and display device	
USB interface kit KERN DBS-A02	10 58 37448
for bidirectional data exchange between balance/moisture analyser and computer. USB cable, driver CD, BalanceConnection software comprised in the delivery	
Software BalanceConnection SCD-4.0	10 58 39040
for visualisation of the drying process	
Thermal printer KERN YKB-01N	10 58 35005
Matrix needle printer KERN 911-013	10 58 37446
for printing out weighing values on standard paper for long-term archiving	
Label printer KERN YKE-01	10 58 35006

