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MOISTURE ANALYSERS



They have a number of memories, network connectivity, different heating modes and are easy to use due to the intuitive operation and easy-to-read displays. Our high-quality moisture analysers are ideal for use in the food processing industry, water resource management, plastics industry, the energy industry or agriculture.

Halogen moisture analysers for rapid, reliable measuring results

Our models work on the thermogravimetric principle which means the sample is weighed and warmed with a halogen lamp. During this procedure, the weight loss is recorded continuously while it is drying until it reaches the defined value. The current moisture content for the sample can then be automatically calculated from the measured weight difference. All benefits of our moisture analysers with halogen drying:

- Even heating of the sample without risk of burning
- Rapid amortisation through low purchase costs
- Temperature ranges from 35 to 200 degrees
- High level of measurement accuracy to 0.01 %
- Spare capacity, weighing range up to 200 g
- You can select between different heating profiles
- You can select between different switch-off criteria, automatic or time-controlled

The drying programs

Depending on the model, our moisture analysers have different heating profiles, so the procedure can be adapted to best suit the sample in question.

- The standard drying setting is suitable for most types of sample. As an option you can choose between these two types of switch-off criteria: Automatic drying (AUTO) or time-controlled (TIME)
- Rapid drying is suitable for samples with a high moisture content
- Smooth heating through "gentle drying" prevents disintegration and formation of a skin
- As an alternative to rapid drying, you can also use stage drying as well. The temperature and the time period for the increase in temperature can be freely selected. Equally, the moisture can be determined selectively for different temperatures

Our recommendation: The high-performance DBS moisture analyser with excellent stability, reliability and reaction speed, 10 drying programs can be stored and memory for 100 drying processes carried out as well as a USB and RS 232 data interface.

Simple data transfer

For easy, convenient communication between the moisture analyser and printer, or PC there are interfaces available, for example to connect a USB or Ethernet. The devices themselves have several internal memories, where you can store drying programs with drying parameters, such as, for example, drying period, drying temperature, display settings, switch-off criteria etc. This saves time and guarantees repeatable results. Compatible printers to print out weights, calibration and interface kits are available in our extensive range of accessories, suitable for each moisture analyser.

For communication between the balance and the printer, the moisture analyser must be disconnected from the power supply and connected to the printer. We guarantee fault-free operation with the KERN interface cable. To transfer the values to the PC we recommend our "Balance Connection KERN SCD 4.0" transfer software. Programs such as Excel or other spreadsheet applications are ideal for displaying graphics.






Our recommendation: DLB moisture analyser with intuitive graphics display, multi-lingual user guidance, convenient Auto-Tare when closing the lid and RS 232 data interface.

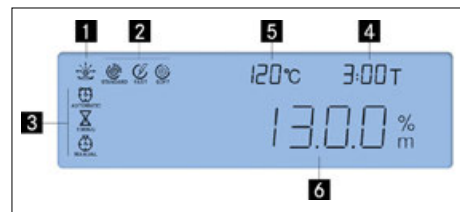
Our service options

In order for the comparability of the results of moisture analyses to be guaranteed, the correct temperatures must be maintained in the heating chamber or sample. We offer our customers regular calibration of the temperature for genuine and reliable measuring results. If requested, we can carry out sample analysis for you and support you in adjusting the parameters of your moisture analyser KERN 965-243

Please contact your personal customer advisor if you would like us to help!

Quick-Finder Moisture Analysers

Readout	Weighing range	Model	Page					
[d]	[Max]	KERN		For an explanation on the pictos, see the front flap				
g	g							
0,0001	50	DIS 50-4	50	●	●	●	●	●
0,0001	60	DLB 60-4A	51	●		●		●
0,001	60	DBS 60-3	52	●	●	●	●	●
0,001	110	DAB 100-3	49	●	●	●		●
0,001	120	DIS 100-3	50	●	●	●	●	●
0,001	160	DLB 160-3A	51	●		●		●
0,01	200	DAB 200-2	49	●	●	●		●



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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 Active drying process
 - 2 Active heating profile
 - 3 Active switch-off criteria
 - 4 Previous drying time
 - 5 Current temperature
 - 6 Current moisture content in %

- 400 W halogen-quartz glass heater
- Suitable for temperature-insensitive samples
- Helpful observation window above the sample
- 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
- On the internet, you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser

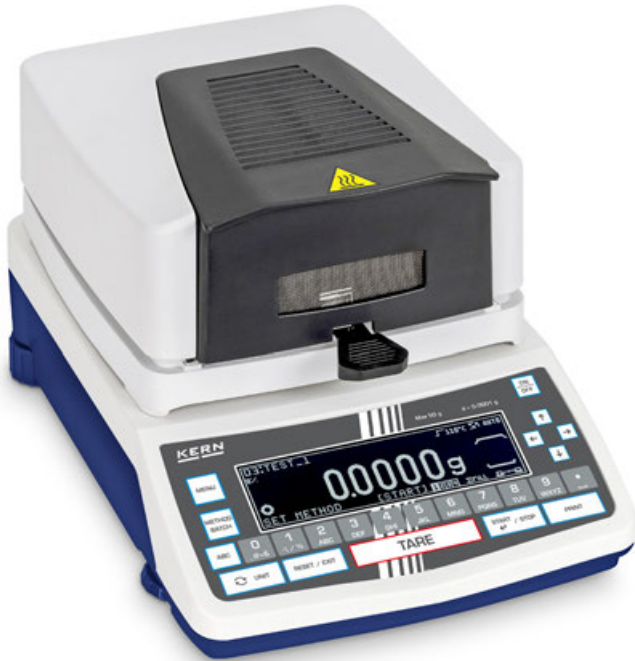
• Note: both models are also available in infrared version, see *internet*



KERN	DAB 100-3	DAB 200-2
Readability [d] Weight/Moisture (%)	0,001 g / 0,01 %	0,01 g / 0,05 %
Weighing capacity [Max]	110 g	200 g
Reproducibility weight of sample 2 g*	0,15 %	1,5 %
Reproducibility weight of sample 10 g*	0,03 %	0,3 %
Display after drying (Display can be switched over at any time)		
Moisture [%] = Moisture content (M) from wet weight (W)	20 % - 100 %	
Dry content [%] = Dry weight (D) from (W)	100 % - 20 %	
Moisture content (M)	Absolute value in [g]	
Temperature range (in steps up to)	40 °C - 199 °C (1 °C)	
Drying modes	Standard drying, Gentle drying, Rapid drying Automatic switch-off (2 mg loss in weight in 45 s) Time controlled switch-off (3 min - 99 min 59 s, 10 s increments) Manual switch-off at the press of a button	
Switch-off criteria		
Recall of measurement/ Log output	Interval can be set from 1 s - 10 min (Only when used with printer or PC)	
Overall dimensions W×D×H	240×365×180 mm	
Net weight	4,82 kg	
Option Calibr. Certificate DAkkS accr. Mass	963-127,	
Option Factory calibration certificate Temperature	964-305,	

* application-dependent

NEW



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High-precision moisture analyser for demanding analyses

Features

- Very high resolution: 0,1 mg / 1 mg readout for precise analyses even with low moisture content
- Intuitive operation in three steps (tare – add sample – start) for simple and reproducible analyses
- Real-time visualisation: Drying curves can be shown directly on the display
- Backlit LCD graphic display, digit height 15 mm
- Halogen quartz glass heater 400 W
- Internal scale memory for up to 1000 measurement results
- The last measured value remains visible in the display until the next measurement

- Password protection to prevent manipulation of stored settings, data, etc.
- Sample description for up to 1000 samples, freely programmable, and is printed in the measuring protocol
- Date and time display as standard
- USB data interface for transferring weighing data to the PC, printer etc.
- 50 sample plates included
- Protective working cover included with delivery
- On the internet, you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser

Main scope of applications

- Food processing and quality control
- Cosmetics industry
- Plastics and polymer industry
- Building materials and cement industry

STANDARD

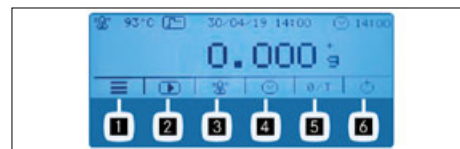


OPTION



KERN	DIS 50-4 <small>NEW</small>	DIS 100-3 <small>NEW</small>
Readability [d] Weight/Moisture (%)	0,0001 g / 0,0001 %	0,001 g / 0,001 %
Weighing capacity [Max]	50 g	120 g
Reproducibility weight of sample 2 g*	0,05 %	0,1 %
Reproducibility weight of sample 10 g*	0,02 %	0,03 %
Display after drying (Display can be switched over at any time)		
Moisture [%] = Moisture content (M) from wet weight (W)	0,01 % - 100 %	
Dry content [%] = Dry weight (D) from [W]	100 % - 0,01 %	
ATRO [%] [(W-D) : D] · 100 %	0-999 %	
Moisture content (M)	Absolute value in [g]	
Temperature range (in steps up to)	30 °C - 175 °C (1 °C)	
Drying modes	Standard drying, Rapid drying, Gentle drying, Drying in levels	
Switch-off criteria	time controlled, automatic, manual	
Overall dimensions W×D×H	211×342×187 mm	
Net weight	5 kg	
Option Calibr. Certificate DAKkS accr. Mass	963-127,	
Option Factory calibration certificate Temperature	964-305,	

* application-dependet



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Moisture analyser with intuitive graphic display and step-by-step user guidance in 6 languages

Features

- Backlit LCD graphic display, digit height 11 mm
- 6 direct keys for rapid access to the main functions

Home screen:

- 1 Main menu
- 2 Start drying process
- 3 Select drying temperature
- 4 Select shut-off criteria
- 5 Setting to zero/taring
- 6 Stand-by

During measurement:

- 7 Current temperature
- 8 Current heating profile
- 9 Active switch-off criteria
- 10 Abort drying process
- 11 Stop drying process
- 12 Display current drying parameters
- 13 Toggle the unit for displaying the results

At the end of the measurement:

- 14 Exit drying program
- 15 Print measurement report
- 16 (De)activate, edit GLP parameters
- 17 Display detailed result
- 18 Toggle the unit for displaying the results

- 400 W halogen-quartz glass heater
- User guidance in 6 languages (DE, EN, FR, IT, ES, PT)
- Automatic taring when starting a measurement by closing the lid
- The last measured value remains visible in the display until the next measurement
- Internal GLP; printout of balance ID, project ID, user ID, values determined by the drying process etc.
- 10 sample plates included
- Protective working cover included with delivery
- On the internet, you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser

STANDARD OPTION

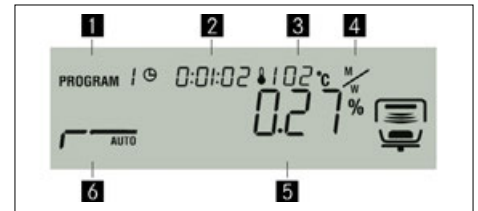
1 DAY

DAkkS

KERN	DLB 60-4A NEW	DLB 160-3A
Readability [d] Weight/Moisture (%)	0,0001 g / 0,001 %	0,001 g / 0,01 %
Weighing capacity [Max]	60 g	160 g
Reproducibility weight of sample 2 g*	0,18 %	0,15 %
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)	10 % - 100 %	
Dry content [%] = Dry weight (D) from (W)	100 % - 10 %	
ATRO [%] [(W-D) : D] · 100 %	0 - 999 %	
Moisture content (M)	Absolute value in [g]	
Temperature range (in steps up to)	35 °C - 160 °C (1 °C)	
Drying modes	Standard drying, Rapid drying, preheating can be switched on	
Switch-off criteria	Automatic unrestricted switch-off (Selectable loss in weight 0,01mg/30s - 10 mg/30s) Time controlled switch-off (1 min - 12 h) Manual switch-off at the press of a button	
Recall of measurement/ Log output	Interval can be set from 5 s - 250 s	
Overall dimensions W×D×H	215×345×235 mm	
Net weight	4,7 kg	
Option Calibr. Certificate DAkkS accr. Mass	963-103,	963-127,
Option Factory calibration certificate Temperature	964-305,	

* application-dependent NEW New model

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Moisture analyser with high-quality single-cell weighing system for outstanding stability, reliability and response speed

Features

- Tip: Suitable for samples with low moisture content, e.g. plastics
- Backlit graphic display, digit height 15 mm
 - 1 Active drying process
 - 2 Previous drying time
 - 3 Current temperature
 - 4 Unit for displaying the results
 - 5 Current moisture content in %
 - 6 Active heating profile

- 400 W halogen-quartz glass heater
- Excellent temperature control thanks to halogen technology, suitable for temperature-sensitive samples
- Internal memory for automatic sequence of 10 complete drying processes and 100 drying processes carried out
- The last measured value remains visible in the display until the next measurement
- Password protection to prevent manipulation of stored settings, data, etc.
- Sample description for up to 99 samples, freely programmable, and is printed in the measuring protocol
- Date and time display as standard
- USB data interface for transferring weighing data to the PC, printer etc.
- 50 sample plates included
- Protective working cover included with delivery
- On the internet, you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser

STANDARD OPTION

KERN	DBS 60-3
Readability [d] Weight/Moisture (%)	0,001 g / 0,01 %
Weighing capacity [Max]	60 g
Reproducibility weight of sample 2 g*	0,15 %
Reproducibility weight of sample 10 g*	0,02 %
Display after drying	
Moisture [%] = Moisture content (M) from wet weight (W)	0,1 % - 100 %
Dry content [%] = Dry weight (D) from (W)	100 % - 0,1 %
ATRO [%] [(W-D) : D] · 100 %	0 - 999 %
Moisture content (M)	Absolute value in [g]
Temperature range (in steps up to)	50 °C - 200 °C (1 °C)
Drying modes	Standard drying, Drying in levels, Gentle drying, Rapid drying 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
Switch-off criteria	
Recall of measurement/ Log output	Interval can be set from 1 s - 10 min (Only when used with printer or PC)
Overall dimensions W×D×H	204×336×167 mm
Net weight	4,6 kg
Option Calibr. Certificate DAkkS accr. Mass	963-127,
Option Factory calibration certificate Temperature	964-305,

* dépendant de l'application