



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 interfacee.

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 KERN 964-305

If requested, we can carry out sample analysis for you and support you in adjusting the parameters of your moisture analyser KFRN 965-243

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

Quick-Finder Moisture Analysers

Readout	Weighing range	Model	Price excl. of VAT	Page	CAL EXT	MEMORY	RS 232	USB	S
[d] g	[Max] g	KERN			For an e	explanation	on the picto	s, see the f	ront flap
0,001	 60	DBS 60-3		 55	•	•	•	•	•
0,001	110	DAB 100-3		54	•	•	•	_	•
0,001	160	DLB 160-3A		56	•		•		•
0,01	200	DAB 200-2	1200,-	54	•	•	•		•











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
- 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 accessories

Accessories

- Sample plates aluminium, Ø 90 mm, unit of 80 pieces, KERN MLB-A01A
- · Round fiberglass filter, medium mechanical stability, without organic binder, box of 100 pieces, KERN RH-A02
- 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
- 9 BalanceConnection software for flexible measured value recording or transmission, compatible with Microsoft® Excel, Access and other applications, Scope of supplies: Download link for 1 license, KERN SCD-4.0-DL
- · Thermal printer, KERN YKH-01
- · Matrix needle printer, to print the weights on normal paper, ideal for long-term archiving, KERN 911-013























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 switche	d 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)				
	Standard	drying			
Drying modes	Gentle drying				
	Rapid o	drying			
	· Automatic switch-off (2 mg lo	ss in weight in 45 s)			
Switch-off criteria	· Time controlled switch-off (3 min - 99 min 59 s, 10 s increments)				
	· Manual switch-off at the pres	s of a button			
Recall of measurement/	Interval can be set from 1 s - 10 min				
Log output	(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	963-127,				
Option Factory Calibr. Certificate Temperature	964-305,				

^{*} application-dependent



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
- Active drying process
- 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





STANDARD













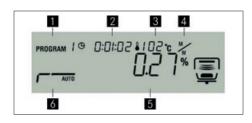


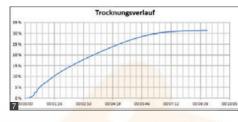




KERN	DBS 60-3				
Readability [d] Weight/Moisture (%)	0,001 g / 0,01 %				
Weighing capacity [Max]	60 g				
Reproducibility weight of sample 2 g*	0,15 %				
Reproducibility weight of sample 10 g*	0,02 %				
Display after drying					
Moisture [%] = Moisture content (M)	0 - 100 %				
from wet weight (W	0 - 100 %				
Dry content [%] = Dry weight (D)	100 - 0 %				
from [W]	100 - 0 70				
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)				
	Standard drying				
Drying modes	Drying in levels				
Drying modes	Gentle drying				
	Rapid drying				
	 Automatic unrestricted switch-off 				
Switch-off criteria	(Selectable loss in weight 0,01% - 0,1% in 30 s)				
Switch-on criteria	· 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 s - 10 min				
Log output	(Only when used with printer or PC)				
Overall dimensions W×D×H	204×336×167 mm				
Net weight	4,6 kg				
Option DAkkS Calibr. Certificate Mass	963-127,				
Option Factory Calibr. Certificate Temperature	964-305,				

^{*} application-dependent





- 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

Accessories

- · Protective working cover, scope of delivery 5 items, KERN DBS-A03S05
- Sample plates aluminium, Ø 90 mm, unit of 80 pieces, KERN MLB-A01A
- · Round fiberglass filter, medium mechanical stability, without organic binder, box of 100 pieces, KERN RH-A02
- · Temperature calibration set consists of measuring sensor and display device, KERN DBS-A01
- USB 2.0 cable, KERN DBS-A04
- **7** BalanceConnection software for flexible measured value recording or transmission, compatible with Microsoft® Excel, Access and other applications, Scope of supplies: Download link for 1 license, KERN SCD-4.0-DL
- Thermal printer, KERN YKH-01
- Matrix needle printer, to print the weights on normal paper, ideal for long-term archiving, KERN 911-013



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
- 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

- 10 Abort drying process

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















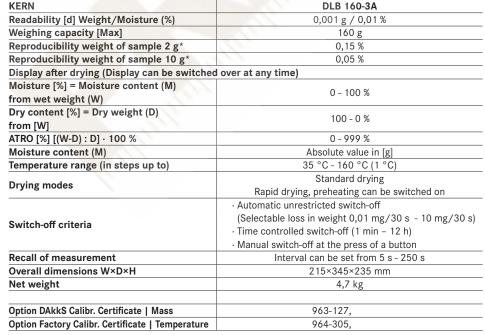




OPTION

DAkks

+3 DAYS

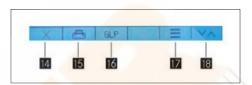


^{*}application-dependent



0.000%







At the end of the measurement:

- 14 Exit drying program
- 15 Print measurement report
- (De)activate, edit GLP parameters
- 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
- 19 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

Accessories

- · Protective working cover, scope of delivery 5 items, KERN ALJ-A01S05
- Sample plates aluminium, Ø 90 mm, unit of 80 pieces, KERN MLB-A01A
- · Round fiberglass filter, medium mechanical stability, without organic binder, box of 100 pieces, KERN RH-A02
- Temperature calibration set consists of measuring sensor and display device KERN DLB-A01N.
- Thermal printer, KERN YKH-01
- · Matrix needle printer, to print the weights on normal paper, ideal for long-term archiving, KERN 911-013