

MOISTURE ANALYSERS

PROFESSIONAL MEASURING



KERN Pictograms

 Internal adjusting Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)	 Interface for second balance For direct connection of a second balance	 Hold function (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value	 Conformity Assessment The time required for conformity assessment is specified in the pictogram
 Adjusting program CAL For quick setting up of the balance's accuracy. External adjusting weight required	 Network interface For connecting the scale to an Ethernet network	 Protection against dust and water splashes IPxx The type of protection is shown in the pictogram	 DAkkS calibration possible (DKD) The time required for DAkkS calibration is shown in days in the pictogram
 EasyTouch Suitable for the connection, data transmission and control through PC or tablet	 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	 Suspended weighing Load support with hook on the underside of the balance	 Factory calibration (ISO) The time required for Factory calibration is shown in days in the pictogram
 Memory Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	 GLP/ISO log intern The balance displays weight, date and time, independent of a printer connection	 Battery operation Ready for battery operation. The battery type is specified for each device	 Package shipment The time required for internal shipping preparations is shown in days in the pictogram
 Alibi memory Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.	 GLP/ISO log Printer With weight, date and time. Only with KERN printers.	 Rechargeable battery pack Rechargeable set	 Pallet shipment The time required for internal shipping preparations is shown in days in the pictogram
 KERN Universal Port (KUP) allows the connection of external KUP interface adapters, e.g. RS-232, RS-485, SB, Bluetooth, WIFI, Analogue, Ethernet etc. for the exchange of data and control commands, without installation effort	 Piece counting Reference quantities selectable. Display can be switched from piece to weight	 Universal plug-in power supply with universal input and optional input socket adapters for A) EU, CH, GB B) EU, CH, GB, US C) EU, CH, GB, US, AUS	
 RS-232 Data interface To connect the balance to a printer, PC or network	 Recipe level A The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out	 Plug-in power supply 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available	
 RS-485 Data interface To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible	 Recipe level B Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display	 Integrated power supply unit Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request	
 USB Data interface To connect the balance to a printer, PC or other peripherals	 Totalising level A The weights of similar items can be added together and the total can be printed out	 Weighing principle Strain gauges Electrical resistor on an elastic deforming body	
 Bluetooth* Data interface To transfer data from the balance to a printer, PC or other peripherals	 Percentage determination Determining the deviation in % from the target value (100 %)	 Weighing principle Tuning fork A resonating body is electromagnetically excited, causing it to oscillate	
 WIFI Data interface To transfer data from the balance to a printer, PC or other peripherals	 Weighing units Can be switched to e.g. nonmetric units. See balance model. Please refer to KERN's website for more details	 Weighing principle Electromagnetic force compensation Coil inside a permanent magnet. For the most accurate weighings	
 Control outputs (optocoupler, digital I/O) To connect relays, signal lamps, valves, etc.	 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	 Weighing principle Single cell technology Advanced version of the force compensation principle with the highest level of precision	
 Analogue interface to connect a suitable peripheral device for analogue processing of the measurements			

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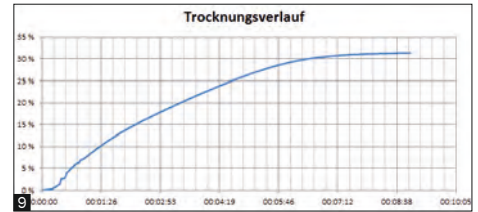
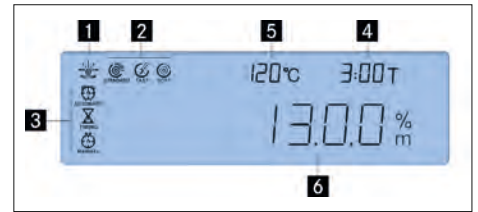
KERN Quick-Finder

How I quickly find the product I am looking for

Ahead of each product group allows you to base the search for a certain target group on weighing data you need such as readout, weighing capacity and main features for each model.

And it's as simple as that – find the product you want in 2 steps:

1. Go to the product group index on page 3
2. Pick the appropriate product group and find the product you want using the Quick-Finder



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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
- 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: In the download centre 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

STANDARD



OPTION

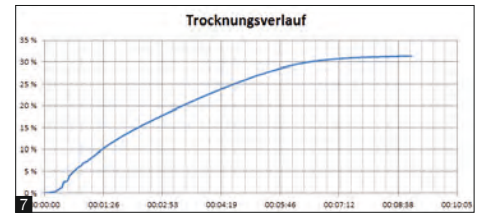
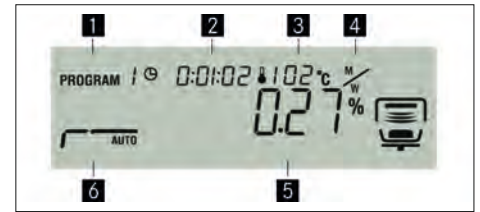


KERN	DAB 100-3	DAB 200-2
Readability [d] Weight/Moisture (%)	0,001 g / 0,01%	0,01 g / 0,05%
Weighing capacity [Max]	110 g	200 g
Reproducibility weight of sample 2 g*	0,15%	1,5%
Reproducibility weight of sample 10 g*	0,03%	0,3%
Display after drying (Display can be switched over at any time)		
Moisture [%] = Moisture content (M) from wet weight (W)	0 - 100 %	
Dry content [%] = Dry weight (D) from W	100 - 0 %	
Moisture content (M)	Absolute value in [g]	
Temperature range (in steps up to)	40 °C - 199 °C (1 °C)	
Drying modes	<input type="checkbox"/> Standard drying <input checked="" type="checkbox"/> Gentle drying <input type="checkbox"/> Rapid drying	
Switch-off criteria	• 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	
Recall of measurement/ Log output	Interval can be set from 1 s - 10 min (Only when used with printer or PC)	
Overall dimensions WxDxH	240x365x180 mm	
Net weight	4,82 kg	
Price excl. of VAT ex works €	1250,-	1200,-
Option DAKKS Calibr. Certificate Mass	KERN 963-127, € 98,-	
Option Factory Calibr. Certificate Temperature	KERN 964-305, € 174,-	

* application-dependent

Accessories

- Sample plates aluminium, ø 90 mm, unit of 80 pieces, KERN MLB-A01A, € 45,-
- Round fiberglass filter, medium mechanical stability, without organic binder, box of 100 pieces, KERN RH-A02, € 86,-
- Round fiberglass filter, medium mechanical stability, without organic binder, box of 100 pieces, KERN YMF-A01, € 45,-
- 7 Temperature calibration set consists of measuring sensor and display device, KERN DAB-A01., € 200,-
- 8 Infrared quartz glass heater, temperature range 40 °C-160 °C, Factory Option, KERN DAB-A02, € 198,-
- Display of the drying process in conjunction with BalanceConnection, Software BalanceConnection, for flexible recording or transmission of measured values, in particular also to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs, for more details see internet, scope of supplies: 1 CD, 1 license, KERN SCD-4.0, € 210,-
- Thermal printer, KERN YKB-01N, € 380,-
- Matrix needle printer, to print the weights on normal paper, ideal for long-term archiving, KERN 911-013, € 480,-



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

STANDARD	OPTION
CAL EXT	DAKKS +3 DAYS
MEMORY	
RS 232	
USB	
GLP INTERN	
UNIT	
230 V	
FORCE	
SC TECH	
1 DAY	

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 - 100 %
Dry content [%] = Dry weight (D) from W	100 - 0 %
ATRO [%] $[(W-D) : D] \cdot 100 \%$	0 - 999 %
Moisture content (M)	Absolute value in [g]
Temperature range (in steps up to)	50 °C - 200 °C (1 °C)
Drying modes	<input type="checkbox"/> Standard drying <input type="checkbox"/> Drying in levels <input type="checkbox"/> Gentle drying <input type="checkbox"/> Rapid drying
Switch-off criteria	<ul style="list-style-type: none"> • 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
Recall of measurement/ Log output	Interval can be set from 1 s - 10 min (Only when used with printer or PC)
Overall dimensions WxDxH	204x336x167 mm
Net weight	4,6 kg
Price excl. of VAT ex works €	1650,-
Option DAkKS Calibr. Certificate Mass	KERN 963-127, € 98,-
Option Factory Calibr. Certificate Temperature	KERN 964-305, € 174,-

* application-dependent

- The last value measured remains on the display until it is replaced by a new measurement
- Password protection to prevent manipulation of stored settings, data, etc.
- Sample description for up to 99 samples, 2 digits, 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.
- 10 sample plates included
- Protective working cover included with delivery
- Application handbook: In the download centre 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, € 44,-
- Sample plates aluminium, ø 90 mm, unit of 80 pieces, KERN MLB-A01A, € 45,-
- Round fiberglass filter, medium mechanical stability, without organic binder, box of 100 pieces, KERN RH-A02, € 86,-
- Temperature calibration set consists of measuring sensor and display device, KERN DBS-A01., € 570,-
- USB 2.0 cable, KERN DBS-A04, € 28,-
- Software BalanceConnection, for flexible recording or transmission of measured values, in particular also to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs, Scope of supplies: Download link for 1 license, KERN SCD-4.0-DL, € 210,-
- Thermal printer, KERN YKB-01N, € 380,-
- Matrix needle printer, to print the weights on normal paper, ideal for long-term archiving, KERN 911-013, € 480,-
- Affordable universal label printer to print out weights on thermal labels. ASCII-capable. Convenient Auto-Forward function to automatically jump from label to label (only with KERN standard labels), KERN YKE-01, € 790,-



5

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

Features

- Rapid and efficient operation thanks to the graphics display
- Backlit LCD graphic display, digit height 11 mm
- 6 direct keys for rapid access to the main functions

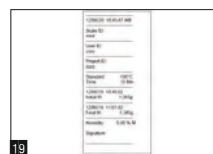
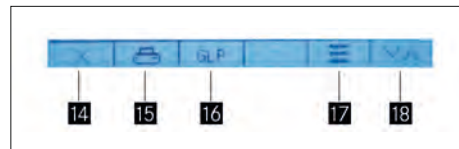
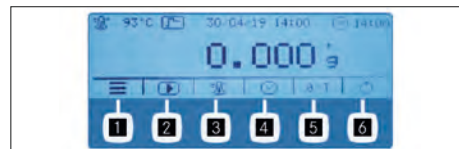
Home screen:

- 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 value measured remains on the display until it is replaced by a new 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
 - Application handbook: In the download centre you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser

STANDARD						OPTION	
CAL EXT	RS 232	PRINTER	UNIT	230 V	DMS	1 DAY	+3 DAYS

KERN	DLB 160-3A
Readability [d] Weight/Moisture (%)	0,001 g / 0,01%
Weighing capacity [Max]	160 g
Reproducibility weight of sample 2 g*	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)	0 - 100 %
Dry content [%] = Dry weight (D) from W	100 - 0 %
ATRO [%] [(W-D) : D] · 100 %	0 - 999 %
Moisture content (M)	Absolutwert in [g]
Temperature range (in steps up to)	35 °C - 160 °C (1 °C)
Drying modes	<input type="checkbox"/> Standard drying <input checked="" type="checkbox"/> Rapid drying, preheating can be switched on
Switch-off criteria	<ul style="list-style-type: none"> • Automatic unrestricted switch-off (Selectable loss in weight 1 mg/30 s–10 mg/30 s) • Time controlled switch-off (1 min - 99 min) • Manual switch-off at the press of a button
Log output	Interval adjustable (5 s - 250 s)
Overall dimensions WxDxH	240x365x180 mm
Net weight	4,82 kg
Price excl. of VAT ex works €	1490,-
Option DAKKS Calibr. Certificate Mass	KERN 963-127, € 98,-
Option DAKKS Calibr. Certificate Temperature	KERN 964-305, € 174,-

* application-dependent

! ONLY WHILE STOCKS LAST

Accessories

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- Sample plates aluminium, ø 90 mm, unit of 80 pieces, KERN MLB-A01A, € 45,-
- Round fiberglass filter, medium mechanical stability, without organic binder, box of 100 pieces, KERN RH-A02, € 86,-
- Round fiberglass filter, medium mechanical stability, without organic binder, box of 100 pieces, KERN YMF-A01, € 45,-
- Temperature calibration set consists of measuring sensor and display device KERN DLB-A01N., € 570,-
- Thermal printer, KERN YKB-01N, € 380,-
- Matrix needle printer, to print the weights on normal paper, ideal for long-term archiving, KERN 911-013, € 480,-

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- Operating Instructions
- Descriptive Image and Video Material
- Useful KERN Services
- Technical Glossary
- KERN Dealer Portal
- Practical Filter and Search Functions



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