BALANCES & TEST SERVICE 2023

MOISTURE ANALYSERS



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
 Drying process active
- Active heating profile
- Active switch-off criteria
- Previous drying time
- Current temperature
- 6 Current moisture content in %

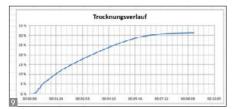
- 400 W halogen-quartz glass heater
- Observation window above the sample, useful during initial setting
- Internal memory for automatic sequence of 15 complete drying processes and 5 drying processes carried out
- The last value measured remains on the display until it is replaced by a new measurement
- 50 sample plates included
- Application handbook: On the internet, you will find a practical application handbook

STANDARD						OPTION
CAL EXT	RS 232	GLP PRINTER	€ 230 V	DMS	1 DAY	DAkkS +3 DAYS

Model KERN	DAB 100-3		DAB 200-2				
Readability [d]	0,001 g/0,01 %	6	0,01 g/0,05 %				
Weighing capacity [Max]	110 g		200 g				
Reproducibility	0,15 %		1,5 %				
weight of sample 2 g*	0,13 //		1,5 %				
Reproducibility,	0,03 %		0,3 %				
weight of sample 10 g*			0,3 %				
Display after drying (Display can be switched over at any time)							
Moisture [%] = Moisture	0-100 %						
content (M) from wet weight (W)	0-100 %						
Dry content [%] =	100-0 %						
Dry weight (D) from W							
Moisture content (M)	Absolute value in [g]						
Temperature range	40 °C-199 °C in steps up to 1 °C						
	J ■ Standard drying						
Drying modes	✓ Gentle drying						
	」 ── Rapid drying						
	Automatic switch-off (2 mg loss 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 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	240×365×180 mm						
Net weight	5,0 kg						
Option DAkkS Calibr. Certificate	Mass:	KERN 963-	127				
Option Factory Calibr. Certificate	Temperature: KERN 964-305						
* application-dependent							







containing many examples, field reports, settings and tips for each KERN moisture analyser

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

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
- Round fiberglass filter, medium mechanical stability, without organic binder, box of 100 pieces, KERN YMF-A01
- Temperature calibration set consists of measuring sensor and display device, KERN DAB-A01.
- II 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
- Display of the drying process in conjunction with BalanceConnection, for more details see the internet, Scope of supplies: 1 CD, 1 license, 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

inLab @ www.imlab.e

www.imlab.eu - info@imlab.eu 🥄 🕕 +33(0)3 20 55 19 11 🌔 +32(0)16 73 55 72

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KERN 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.



• 888. •

RS 232

• 1998. •

RS 485

KERN Universal Port (KUP):

allows the connection of external KUP interface adapters, e.g. RS-232, RS-485, SB, Bluetooth, WLAN, Analogue, Ethernet etc. for the exchange of data and control commands, without installation effort

Data interface RS-232:

To connect the balance to a printer, PC or network



To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible

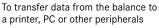
USB data interface:

To connect the balance to a printer, PC or other peripherals



USB

Bluetooth* data interface:





0^0

SWITCH

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

license. Other trademarks and trade names are those of their respective owner

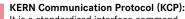
mLab



KCP

Network interface: For connecting the scale to an

Ethernet network



It is a standardized interface command PROTOCOL 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





PRINTER

The balance displays weight, date and time, independent of a printer connection

GLP/ISO log:

With weight, date and time. Only with KERN printers.



Reference quantities selectable. PCS Display can be switched from piece to weight

Recipe level A:

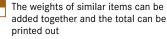
The weights of the recipe ingredients RECIPE can be added together and the total weight of the recipe can be printed out



Internal memory for complete recipes RECIPE with name and target value of the recipe ingredients. User guidance through display



Totalising level A:



Determining the deviation in % from

Percentage determination:

the target value (100 %)

%

B

Weighing units: Can be switched to e.g. nonmetric UNIT units. See balance model. Please refer to KERN's website for more details

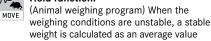


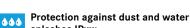
*The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by KERN & SOHN GmbH is under

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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: M--





splashes IPxx: The type of protection is shown in the pictogram.

Suspended weighing: Load support with hook on the UNDER 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 +3 DAYS specified in the pictogram



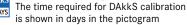
DAkkS calibration possible (DKD):

The time required for internal shipping prepa-

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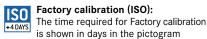
rations is shown in days in the pictogram

rations is shown in days in the pictogram



Package shipment:

Pallet shipment:



1 DAY

2 DAYS

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