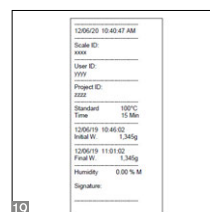
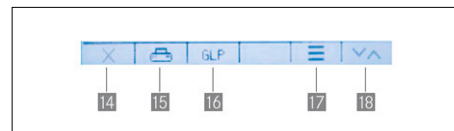
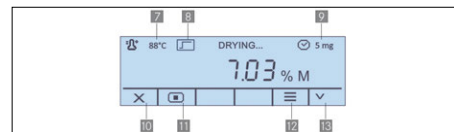


Moisture analyser KERN DLB



FACE LIFT



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

Features

- Rapid and efficient operation thanks to the graphics display
- Backlit graphics display, digit height 11 mm
- Start 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 shut-off criteria
 - 10 Abort drying process
 - 11 Stop drying process
 - 12 Display current drying parameters
 - 13 Toggle the unit for displaying the results
 - 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: On the internet, you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyzer

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

Modell KERN	DLB 160-3A
Readability [d]	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)	Absolute value in [g]
Temperature range	35 °C-160 °C in steps up to 1 °C
Drying modes	<input checked="" type="checkbox"/> Standard drying <input 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 W×D×H	215×345×235 mm
Net weight	approx. 4,7 kg
Option DAkKS Calibr. Certificate	Mass: KERN 963-127
Option Factory Calibr. Certificate	Temperature: KERN 964-305

* application-dependent

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 high mechanical stability, with 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 DLB-A01N.
- Thermal printer, KERN YKB-01N
- Matrix needle printer, to print the weights on normal paper, ideal for long-term archiving, KERN 911-013

Pictograms

<p> Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)</p> <p> Adjusting program CAL: For quick setting up of the balance's accuracy. External adjusting weight required</p> <p> Easy Touch: Suitable for the connection, data transmission and control through PC, tablet or smartphone.</p> <p> Memory: Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.</p> <p> Alibi memory: Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard</p> <p> Data interface RS-232: To connect the balance to a printer, PC or network</p> <p> 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</p> <p> USB data interface: To connect the balance to a printer, PC or other peripherals</p> <p> Bluetooth* data interface: To transfer data from the balance to a printer, PC or other peripherals</p> <p> WiFi data interface: To transfer data from the balance to a printer, PC or other peripherals</p> <p> Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.</p> <p> Analogue interface: to connect a suitable peripheral device for analogue processing of the measurements</p> <p> Interface for second balance: For direct connection of a second balance</p> <p> Network interface: For connecting the scale to an Ethernet network</p>	<p> 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</p> <p> GLP/ISO log: The balance displays serial number, user ID, weight, date and time, regardless of a printer connection</p> <p> GLP/ISO log: With weight, date and time. Only with KERN printers</p> <p> Piece counting: Reference quantities selectable. Display can be switched from piece to weight</p> <p> Recipe level A: The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out</p> <p> Recipe level B: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display</p> <p> Totalising level A: The weights of similar items can be added together and the total can be printed out</p> <p> Percentage determination: Determining the deviation in % from the target value (100 %)</p> <p> Weighing units: Can be switched to e.g. nonmetric units at the touch of a key. See balance model. Please refer to KERN's website for more details</p> <p> 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</p> <p> Hold function: (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value</p> <p> Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram</p>	<p> Suspended weighing: Load support with hook on the underside of the balance</p> <p> Battery operation: Ready for battery operation. The battery type is specified for each device</p> <p> Rechargeable battery pack: Rechargeable set</p> <p> Universal mains adapter: with universal input and optional input socket adapters for A) EU, CH, GB; B) EU, CH, GB, USA; C) EU, CH, GB, USA, AUS</p> <p> Mains adapter: 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available</p> <p> Power supply: Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request</p> <p> Weighing principle: Strain gauges: Electrical resistor on an elastic deforming body</p> <p> Weighing principle: Tuning fork: A resonating body is electromagnetically excited, causing it to oscillate</p> <p> Weighing principle: Electromagnetic force compensation: Coil inside a permanent magnet. For the most accurate weighings</p> <p> Weighing principle: Single cell technology: Advanced version of the force compensation principle with the highest level of precision</p> <p> Verification possible: The time required for verification is specified in the pictogram</p> <p> DAKkS calibration possible (DKD): The time required for DAKkS calibration is shown in days in the pictogram</p> <p> Factory calibration (ISO): The time required for Factory calibration is shown in days in the pictogram</p> <p> Package shipment: The time required for internal shipping preparations is shown in days in the pictogram</p> <p> Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram</p>
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KERN – Precision is our business

To ensure the high precision of your balance KERN offers you the the appropriate test weight in the international OIML error limit classes E1-M3 from 1 mg - 2500 kg. In combination with a DAKkS calibration certificate the best pre-requisite for proper balance calibration.

The KERN DAKkS calibration laboratory today is one of the most modern and best-equipped DAKkS calibration laboratories for balances, test weights and force-measurement in Europe.

Thanks to the high level of automation, we can carry out DAKkS calibration of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

Range of services:

- DAKkS calibration of balances with a maximum load of up to 50 t
- DAKkS calibration of weights in the range of 1 mg - 2500 kg
- Volume determination and measuring of magnetic susceptibility (magnetic characteristics) for test weights
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DAKkS calibration certificates in the following languages DE, EN, FR, IT, ES, NL, PL
- Conformity evaluation and reverification of balances and test weights

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