

MOISTURE ANALYSERS




20,95 % M



PROFESSIONAL MEASURING

2016

KERN Pictograms

 <p>Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motordriven).</p>	 <p>Piece counting: Reference quantities selectable. Display can be switched from piece to weight.</p>	 <p>Suspended weighing: Load support with hook on the underside of the balance.</p>
 <p>Adjusting program CAL: For quick setting up of the balance's accuracy. External adjusting weight required.</p>	 <p>Recipe level A: Separate memory for the weight of the tare container and the recipe ingredients (net total).</p>	 <p>Battery operation: Ready for battery operation. The battery type is specified for each device.</p>
 <p>Memory: Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.</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>Rechargeable battery pack: Rechargeable set.</p>
 <p>Alibi memory: Electronic archiving of weighing results, complying with the 2009/23/EC standard. For details see page 214</p>	 <p>Recipe level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, adjustment of recipe when dosages are exceeded, multiplier function, barcode.</p>	 <p>Universal mains adapter: with universal input and optional input socket adapters for A) EU, GB B) EU, GB, CH, USA C) EU, GB, CH, USA, AUS</p>
 <p>Data interface RS-232: To connect the balance to a printer, PC or network.</p>	 <p>Totalising level A: The weights of similar items can be added together and the total can be printed out.</p>	 <p>Mains adapter: 230V/50Hz in standard version for EU. On request GB, USA or AUS version available.</p>
 <p>RS-485 data interface: To connect the balance to a printer, PC or other peripherals. High tolerance against electromagnetic disturbance.</p>	 <p>Totalising level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, adjustment of recipe when dosages are exceeded, multiplier function, barcode recognition.</p>	 <p>Power supply: Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request.</p>
 <p>USB data interface: To connect the balance to a printer, PC or other peripherals.</p>	 <p>Totalising level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, adjustment of recipe when dosages are exceeded, multiplier function, barcode recognition.</p>	 <p>Weighing principle: Strain gauges Electrical resistor on an elastic deforming body.</p>
 <p>Bluetooth* data interface: To transfer data from the balance to a printer, PC or other peripherals.</p>	 <p>Percentage determination: Determining the deviation in % from the target value (100 %).</p>	 <p>Weighing principle: Tuning fork A resonating body is electromagnetically excited, causing it to oscillate.</p>
 <p>WLAN data interface: To transfer data from the balance to a printer, PC or other peripherals.</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 principle: Electromagnetic force compensation Coil inside a permanent magnet. For the most accurate weighings.</p>
 <p>Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.</p>	 <p>Weighing with tolerance range: Upper and lower limiting values can be programmed individually for e.g. dosing, sorting and portioning</p>	 <p>Weighing principle: Single cell technology Advanced version of the force compensation principle with the highest level of precision.</p>
 <p>Interface for second balance: For direct connection of a second balance.</p>	 <p>Hold function: (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value.</p>	 <p>Verification possible: The time required for verification is specified in the pictogram.</p>
 <p>Network interface: For connecting the scale to an Ethernet network. With KERN products you can use a universal RS-232/LAN converter. See page 180</p>	 <p>Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram. For details see the glossary. See page 72.</p>	 <p>DAKkS calibration possible (DKD): The time required for DAKkS calibration is shown in days in the pictogram.</p>
 <p>Wireless data transfer: between the weighing unit and the evaluation unit using an integrated radio module.</p>	 <p>ATEX explosion protection: Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device.</p>	 <p>Package shipment: The time required for internal shipping preparations is shown in days in the pictogram.</p>
 <p>GLP/ISO log: The balance displays the weight, date and time, regardless of a printer connection.</p>	 <p>Stainless steel: The balance is protected against corrosion.</p>	 <p>Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram.</p>
 <p>GLP/ISO log: With weight, date and time. Only with KERN printers, see "Accessories", see page 177.</p>	 <p>Warranty: The warranty period is shown in the pictogram.</p>	 <p>Warranty: The warranty period is shown in the pictogram.</p>

KERN – measuring technology and testing services from a single source



Balances & Test service catalogue

Provides a complete overview of the KERN line of balances, test weights, and services, services such as verification, calibration, etc.



Medical scales catalogue

Complete line of medical scales, from infant scales to patient scales, chair scales and adiposity scales, as well as hand grip dynamometers, chemist's balances, and veterinary scales.



Microscopes & refractometers catalogue

Extensive range in the area of optical instruments, such as, for example, biological microscopes, stereo microscopes, metallurgical microscopes, polarisation microscopes as well as analogue and digital refractometers.



SAUTER measuring equipment catalogue

Test instruments for industry and commerce, such as force, coating thickness, material thickness and calibration service.



KERN DAkkS calibration service brochure

Detailed information on topics pertaining to the calibration and verification of balances, test weights, and force measuring devices.



KERN flyer Special offers

Compact overview of our bestselling products – just the balances/measuring instruments/microscopes your customers need! Can be customised to suit your requirements.



The gnome guide

Travel report from KERN, the famous scientific gnome, who travelled all over the world, in order to illustrate the physical law of gravitational force. Ideal for use in school education – please request, it's free of charge.



170 years of KERN

Interesting and readable overview of the history of the origins of Southern German balance manufacturing, as well as the company history, which stretches right back to 1770 – please request, it's free of charge.

Your advantages

1

Quick Delivery

Items in stock are sent the same day if orders are placed before 1:00 pm (valid for parcel service delivery within the EC).

2

Price performance ratio

KERN scales are always an inexpensive alternative. They are durable, uncomplicated and easy to place into operation.

3

Direct dispatch

of ordered goods to your customer is available, with personalised delivery note if desired (please ask), invoice will be issued to you (third party business).

4

3 years warranty

Items under € 400,- : 2 years

5

No stock-keeping necessary.

KERN does the warehousing for you.

6

Sale or return

within 14 days of purchase.

Moisture analysers

Moisture analysing is an integral part of production and processing of many raw and finished products and has a crucial impact on the quality of the product.

Moisture analysers are used particularly in the food industry, water resource management (sewage plants, etc.), plastics industry, agriculture and the energy industry (bio-energy plants, etc.).

Determining moisture requires a great deal of experience. Depending on the type of sample and the task involved, various drying processes are used.

KERN has concentrated on the most widely-used drying method: halogen drying, which brings many advantages:

- Sample is evenly warmed from above, without risk of burning the sample surface
- Affordable purchase costs ensure rapid amortisation of the device
- Most common temperature ranges from 35 – 200 °C

- High measuring precision, up to 0.01 %
- Sufficient buffer capacity, weighing range up to 160 g
- Various drying programs (soft drying, standard drying, drying in levels, rapid drying (Boost))

The numerous memories of the KERN moisture analyser are particularly useful, as they hold information on the complete drying processes with drying parameters such as drying time, drying period, drying temperature, display settings, switch off criteria, etc. This saves an enormous amount of time and helps to achieve repeatable results.

On the internet, you will find a practical application hand-book containing many examples, field reports, settings and tips for each KERN moisture analyser.

Note: We would be pleased to carry out individual analyses on the sample you submit, which will help you when setting the parameters of your moisture analyser and will lead to results which can be reproduced.

KERN 965-243, € 95,-/hour

Quick-Finder Moisture analysers

Read-out	Weighing range	Model	Price excl. of VAT ex works €	Page	DAYS ready for shipping	CAL EXT	MEMORY	RS 232
[d]	[Max]	KERN				For an explanation on the pictos, see the front flap		
0,001 g	50 g	MLS 50-3D	1450,-	57	1	●	●	●
0,001 g	60 g	DBS 60-3	1270,-	55	1	●	●	●
0,001 g	110 g	DAB 100-3	1130,-	54	1	●	●	●
0,001 g	160 g	DLB 160-3A	1170,-	56	1	●	●	●
0,001 g	160 g	DLT 100-3N	1870,-	58	1	●	●	●

■ = News 2016

● = Standard

○ = Option

Your product specialist's recommendation:



Optimum ease of operation



High level of process reliability thanks to drying programs which can be stored



Graphics display aids when setting and monitoring the drying process



Jesús Martínez

Product specialist Moisture analysers

Tel. +49 [0] 7433 9933-209

Fax +49 [0] 7433 9933-29209

jesus.martinez@kern-sohn.com

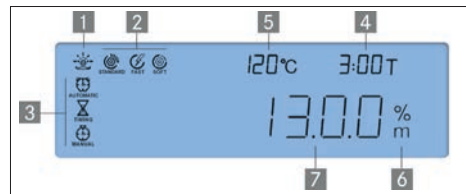


only €
1130,-

▶ page 54

KERN DAB

NEW



Features

- Backlit LCD display, digit height 14 mm
- 1 Drying process active
- 2 Active heating profile
- 3 Active switch-off criteria
- 4 Previous drying time
- 5 Current temperature
- 6 Moisture display in %
- 7 Interim result in moisture-%
- **Halogen quartz glass heater** 400 W
- **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 containing many examples, field reports, settings and tips for each KERN moisture analyser

Moisture analyser with user-friendly graphics display and 15 memories for drying programs

STANDARD



OPTION

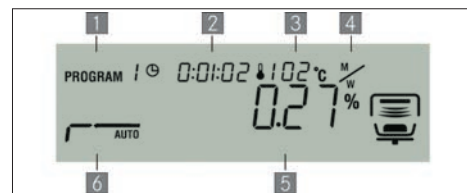


Model KERN	DAB 100-3
Readout [d]	0,001 g 0,01 %
Weighing range [Max]	110 g
Reproducibility, weight of sample 10 g	0,02 %
Display after drying (Display can be switched over at any time)	
Moisture [%] = Moisture content (M) from wet weight (W)	0-100 %
Dry content [%] = Dry weight (D) from W	100-0 %
Moisture content (M)	Absolute value in [g]
Temperature range	35 °C - 160 °C in steps up to 1 °C
Drying modes	<input type="checkbox"/> Standard drying <input checked="" type="checkbox"/> Gentle drying <input type="checkbox"/> Rapid drying
Switch off criteria	<ul style="list-style-type: none"> • Automatic switch off (2 mg loss in weight in 45 s) • Time controlled switch off (3 min - 99 h 59 min, 10 s increments) • Manual switch off at the press of a button
Recall of measurement	<ul style="list-style-type: none"> • At the end of the drying process, manual or automatic (Only in connection with KERN YKC-01)
Overall dimensions WxDxH	240x365x180 mm
Net weight	4,82 kg
Price €, excl. of VAT, ex works	1130,-
Option DAKKS Calibr. Certificate	963-127, € 72,-

Accessories

- **Sample plates aluminium**, Ø 90 mm. Unit of 80 pieces, KERN MLB-A01A, € 45,-
- **Round fiberglass filter** e.g. for samples that splash or become encrusted. Box with 100 pieces, KERN RH-A02, € 80,-
- **8 Temperature calibration set** consists of measuring sensor and display device, KERN DAB-A01, € 190,-
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, € 390,-
- **RS-232/Bluetooth adapter** to connect to Bluetooth capable devices, such as Bluetooth printers, tablets, laptops, smartphones, etc., KERN YKI-02, € 260,-
- **RS-232/WiFi adapter** for wireless connection to networks and WLAN capable devices, such as tablets, laptops or smartphones, KERN YKI-03, € 780,-
- **Thermal printer**, KERN YKB-01N, € 325,-

Moisture analyser KERN DBS



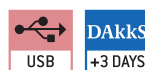
04

Moisture analyser with graphics display and 10 memories for drying programs

STANDARD



OPTION



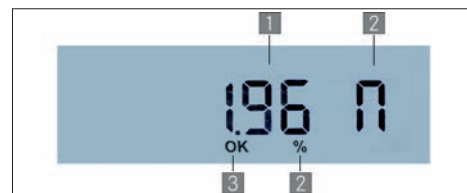
Model KERN	DBS 60-3
Readout [d]	0,001 g / 0,01 %
Weighing range [Max]	60 g
Reproducibility weight of sample 2 g	0,15 %
Reproducibility, weight of sample 10 g	0,02 %
Display after drying (Display can be switched over at any time)	
Moisture [%] = Moisture content (M) from wet weight (W)	0 - 100 %
Dry content [%] = Dry weight (D) from (W)	100 - 0 %
ATRO [%] [(W-D) : D] · 100%	0 - 999 %
Moisture content [g] (M)	Absolute value in [g]
Temperature range	50 - 200 °C in steps up to 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	Interval can be set from 1 sec - 10 min (Only when used with printer KERN YKB-01 or PC)
Overall dimensions WxDxH	202x336x157 mm
Net weight	approx. 4,2 kg
Price €, excl. of VAT, ex works	1270,-
Option DAkkS Calibr. Certificate	963-127, € 72,-

Features

- Backlit LCD display, digit height 15 mm
- 1 Drying program
- 2 Previous drying time
- 3 Current temperature
- 4 Unit of the shown result, e.g. moisture
- 5 Current moisture content in %
- 6 Drying mode/Status display drying
- **Halogen quartz glass heater** 400 W
- **Observation window above the sample**, useful during initial setting
- **Internal memory** for automatic run of 10 drying programs and 100 drying processes already executed
- The last value measured remains on the display until it is replaced by a new measurement
- **Sample description** for up to 99 samples, 2 digits, freely programmable, and is printed in the measuring protocol
- **Date and time display** as standard
- **10 sample plates included**
- **Application handbook:** On the internet, you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser

Accessories

- **Sample plates aluminium**, Ø 90 mm. Unit of 80 pieces, KERN MLB-A01A, € 45,-
- **Round fiberglass filter** e.g. for samples that splash or become encrusted. Box with 100 pieces, KERN RH-A02, € 80,-
- **Temperature calibration set** consists of measuring sensor and display device, KERN DBS-A01, € 480,-
- **USB interface kit** for bi-directional data exchange between moisture analyser and computer. Scope of delivery: USB cable, driver, Software Balance Connection, KERN DBS-A02, € 290,-
- **Protective working cover** standard. Can be re-ordered, scope of delivery: 5 items, KERN DBS-A03S05, € 65,-
- **Thermal printer**, KERN YKB-01N, € 325,-



04

The moisture analyser for heavy, high-volume samples

STANDARD



OPTION



Model KERN	DLB 160-3A
Readout [d]	0,001 g / 0,01 %
Weighing range [Max]	160 g
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 type="checkbox"/> Standard drying <input checked="" type="checkbox"/> Rapid drying, Pre-heat level, can be switched on
Switch off criteria	<ul style="list-style-type: none"> • Automatic unrestricted switch off (Selectable loss in weight 0,1%-9,9% in 60 s) <ul style="list-style-type: none"> • Time controlled switch off (1 min - 99 min) • Manual switch off at the press of a button
Recall of measurement	<ul style="list-style-type: none"> • Continuous output (residual weight) • At the end of the drying process, manual or automatic (Only in connection with KERN YKB-01N printer or PC)
Overall dimensions WxDxH	210x340x225 mm
Netweight	approx. 4,2 kg
Price €, excl. of VAT, ex works	1200,-
Option DAKKS Calibr. Certificate	963-127, € 72,-

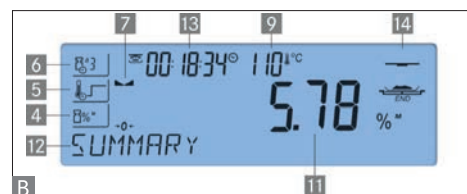
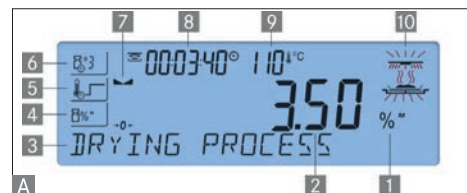
Features

- Backlit LCD display, digit height 17 mm
 - 1 Current moisture content in %
 - 2 Unit of the shown result, e.g. % moisture
 - 3 Drying process active
- Halogen quartz glass heater 400 W
- Internal memory for automatic sequence of 5 complete drying processes
- The last value measured remains on the display until it is replaced by a new measurement
- 10 sample plates included
- Application handbook: On the internet, you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser

Accessories

- Sample plates aluminium, Ø 90 mm. Box with 80 pieces, KERN MLB-A01A, € 45,-
- Round fiberglass filter e.g. for samples that splash or become encrusted. Box with 100 pieces, KERN RH-A02, € 80,-
- 5 Temperature calibration set consists of measuring sensor and display device, KERN DLB-A01, € 290,-
- Protective working cover standard. Can be re-ordered, scope of delivery: 5 items, KERN ALJ-A01S05, € 40,-
- Suitable printers see page 177 ff.

NEW



04

Infrared moisture analyzer with graphics display and a vast database

STANDARD



OPTION



Model KERN	MLS 50-3D
Readout [d]	0,001 g / 0,01 %
Weighing range [Max]	50 g
Reproducibility, weight of sample 2 g	0,1 %
Reproducibility, weight of sample 10 g	0,02 %
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	40 °C - 160 °C in steps up to 1 °C
Drying modes	<input checked="" type="checkbox"/> Standard drying <input checked="" type="checkbox"/> Drying in levels <input checked="" type="checkbox"/> Gentle drying <input checked="" type="checkbox"/> Rapid drying
Switch off criteria	• Automatic switch off (AUTO 1 - 5) • Automatic unrestricted switch off (selectable 1-10 mg / 10-120 s) • Time controlled switch off (1 min - 99 h 59 min) • Manual switch off at the press of a button
Recall of measurement	Interval can be set from 1 sec - 10 min (Only when used with printer KERN YKB-01N or PC)
Overall dimensions WxDxH	206x333x192 mm
Net weight	approx. 4,9 kg
Price €, excl. of VAT, ex works	1450,-
Option DAKKS Calibr. Certificate	963-127, € 72,-

Features

- Backlit graphic display, digit height 14mm

A Display during the drying process:

- 1 Moisture display in %
- 2 Interim result in moisture-%
- 3 Drying process active
- 4 Active result display
- 5 Active heating profile
- 6 Active switch-off criteria
- 7 Stability display
- 8 Previous drying time
- 9 Current temperature
- 10 Drying process active

B Display after the drying process:

- 11 End result in moisture-%
- 12 Active result display
- 13 Drying process has finished

- **Infrared heater** 400 W
- **Observation window above the sample**, useful during initial setting
- **Balance contains memory** for automatic sequence of 100 complete drying programs (92 drying programs with optimised drying characteristics for rapid sample warming and therefore shorter drying times, pre-installed at the factory), 100 users with related authorisations, 1000 drying processes performed and 1000 weighing results (alibi memory)
- The last value measured remains on the display until it is replaced by a new measurement
- The large ventilation slots in the heating cover combined with the sample viewing window in the form of a metal grid, ensure that moisture exhausts quickly which leads to shorter drying times
- **10 sample plates included**
- **Application handbook:** There are many practical examples in the user manual

Accessories

- **Sample plates aluminium**, Ø 90 mm. Unit of 80 pieces, KERN MLB-A01A, € 45,-
- **Round fiberglass filter** e.g. for samples that splash or become encrusted. Box with 100 pieces, KERN RH-A02, € 80,-
- **Temperature calibration set** consists of measuring sensor and display device, KERN MLB-A12, € 590,-
- **Protective working cover** standard. Can be re-ordered, scope of delivery: 5 items, KERN ALS-A02S05, € 35,-
- **Thermal printer**, KERN YKB-01N, € 325,-



04



High-end moisture analyser with touch-sensitive tablet and innovative Android® operating system



Particularly in the pharmaceutical, food, chemical and construction industries, being able to analyse the moisture content of materials at Goods Inwards and production is an important tool to ensure product quality and robust production processes.

In biogas plants, sewage treatment plants or landfill sites, the drying of biomass has always been extremely important. Controlling the moisture content precisely helps, for example, to reduce transport weights or increase heating values

In the timber industry, statements which can be validated relating to the moisture content and the resulting mechanical and technological characteristics of the wood or the fuel and heating values of wood chips, pellets, etc. are of economic importance

Moisture analyser KERN DLT-N



Features

Innovative touchscreen:

Large touch-sensitive, backlit screen with very good contrast for easy operation and convenient reading

Clear menu structure with plain text labels on the display. The menu and processes are self-explanatory. This reduces the training times, avoids operating errors and in this way, ensures more efficient functionality

Tablet: Colour LCD Display, digit height 12 mm, screen diagonal 7" (approx. 178 mm), WxH 118x88 mm, table stand standard, all information at a glance:

- 1 Drying process active
- 2 Status information, available for display
- 3 Current moisture content in %
- 4 Current temperature
- 5 Android®-specific navigation elements
- 6 Drying rate
- 7 Switch off mode
- 8 Drying type *Standard*
- 9 Target temperature
- 10 Current display and print-out of moisture-%

12 Practical net weighing assistance to a defined target value [g] with adjustable tolerance range 1 – 25 % of the target value

11 Graphic display of the drying curve shows the progress of the drying process in real time and can be used by the operator to check and evaluate the result

- **High mobility thanks to tablet operation**, data is available any time, anywhere
- **High-performance Android® operating system**
- **Lots of memory** for your applications
- **Halogen quartz glass heater** 400 W
- **10 sample plates included**
- **WLAN and Bluetooth interfaces as standard** to transfer data to a PC (e.g. to KERN Balance-Connection 4.0 software, see page 179) or to print out the weighing data, drying curves etc. for archiving purposes using a Bluetooth thermal printer KERN YKC-01, see page 178

13 Balance contains memories for 100 memories for drying processes (drying protocols) which have been carried out and which can be recalled individually



Balance contains memories for automatic sequence of 300 drying programs (12 free characters for each memory). Many useful programs are already preinstalled

STANDARD



OPTION

KERN	DLT 100-3N
Readout [d]	0,001 g 0,01 %
Weighing range [Max]	160 g
Reproducibility, weight of sample 10 g	0,001 g
Display after drying (Display switchable at all times)	
Moisture [%] = Moisture content (M) from wet weight	0–100 %
Dry content [%] = Dry weight (D) from (W)	100–0 %
ATRO [%] [(W-D):D] · 100%	0–999 %
Residual weight (M)	Absolute value in [g]
Temperature range	35 °C–160 °C in steps of 1 °C
Drying modes	<ul style="list-style-type: none"> ☑ Standard drying ☑ Gradual drying ☑ Gentle drying ☑ Rapid drying
Switch off criteria	<ul style="list-style-type: none"> • Automatic unrestricted switch off (selectable loss in weight 0,1–10 % or 1–60 mg, selectable time 1–99 s) <ul style="list-style-type: none"> • Time controlled switch off (1 min–99 min) • Manual switch off at the press of a button
Log output	<ul style="list-style-type: none"> • At the end of the drying process, manual or automatic (only in connection with printer KERN YKC-01)
Dimensions Moisture analyser WxDxH	210x340x225 mm
Dimensions Tablet WxDxH	195x120x10 mm
Net weight	5,2 kg
Price €, excl. of VAT ex works	1870,-
Option DAkkS Calibration Certificate	963-127, € 72,-

↓ Price reduction

For more information, please visit kern-sohn.com/en/DLT-N · Order hotline +49 [0] 7433 9933-0

Accessories

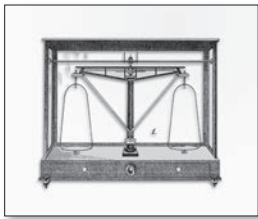
- **Sample plates aluminium**, Ø 90 mm. Unit of 80 pieces, KERN MLB-A01A, € 45,-
- **Round fiberglass filter** e.g. for samples that splash or become encrusted. Unit of 100 pieces, KERN RH-A02, € 80,-
- **Temperature calibration set**, KERN DLB-A01N, € 460,-
- **Protective working cover** standard, can be reordered, scope of delivery: 5 items, KERN ALJ-A01S05, € 40,-
- **Bluetooth thermal printer**, suitable for wireless connection to compatible, Bluetooth-enabled moisture analysers, balances, dynamometers etc., KERN YKC-01, € 690,-



14

Tradition and innovation for more than 170 years

An independent family business, KERN since already 7 generations is synonymous with quality and reliability in customer service.



► 1844

KERN is founded – precision balances are produced



► 1863

A proud Gottlieb Kern with his staff



► 1880

Pharmaceutical balance with Aesculap



► 1923

Inflation – KERN wages are paid with self printed currency



► 1980

The electronic balance ousts mechanical devices



► 1994

Accredited DKD laboratory (ISO 17025)



► 2000

New premises in Balingen



► 2002

Existing QM system certification in accordance with DIN EN ISO 9001:2000 standards



► 2007

Approval for the manufacture of medical products (DIN EN 13485 and 93/42/EEC)



► 2008

Authorisation for initial verification by the manufacturer (2009/23/EC)



► 2009

Approval for the manufacture and sale of height rods (DIN EN 13485 and 93/42/EEC)



► 2012

Verification point for non-automatic balances and test weights.

New customer portal www.kern-sohn.com goes live



► 2014

Expansion of the product range to include optical instruments (microscopes and refractometers)



► 2015

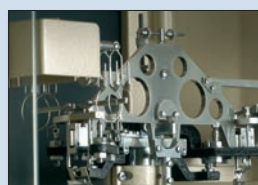
Inauguration of Ziegelei 2.0 with computer-controlled high-bay warehouse

Our Tip

Come to see the Museum of scale and weight ...



How a scale learned to weigh! Come and experience KERN history in the Zollernschloss at Balingen ...



www.balingen.de
→ "Kultur"

KERN – Tradition and Innovation for over 170 years

An independent family business, KERN since already 7 generations is synonymous with quality and reliability in customer service.

fast

- 24 hours delivery service – ordered today, on its way tomorrow
- Sales & service hotline available from 8:00 am to 6:00 pm

reliable


- 3 years warranty for balances over € 400,-
- Precision in weighing technology for more than 170 years

competent


- DAkkS accreditation
DIN EN ISO/IEC 17025
- Certified QM system
DIN EN ISO 9001:2008
- Authorisation for initial verification by the manufacturer
2009/23/EC
- Medical certifications
DIN EN ISO 13485 and
93/42/EEC

versatile


- One-stop shopping: from pocket balances through to floor scales – everything from one supplier
- Find the product you want at lightning speed with the “Balance Quick-Finder” at www.kern-sohn.com

 **Order hotline**
+49 [0] 7433 9933-0

 **Online-Shop**
www.kern-sohn.com


 **Our team of consultants will assist you**
from Monday to Friday
from 8:00 am to 6:00 pm

 **Service hotline**
+49 [0] 7433 9933-199

 **E-mail order**
info@kern-sohn.com

 **www.kern-sohn.com**
For product specification sheets, user manuals, useful information, technical glossary pictures and much more as well as a smart search engine for test weights and balances

 **Calibration hotline**
+49 [0] 7433 9933-196

 **Fax Order**
+49 [0] 7433 9933-146

KERN & SOHN GmbH
Balances, Test weights, DAkkS Calibration laboratory
Ziegelei 1
72336 Balingen
Germany

Tel. +49 [0] 7433 9933-0
Fax +49 [0] 7433 9933-149

info@kern-sohn.com
www.kern-sohn.com

