Moisture analyser KERN DLT-N

PREMIUM
★★★

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
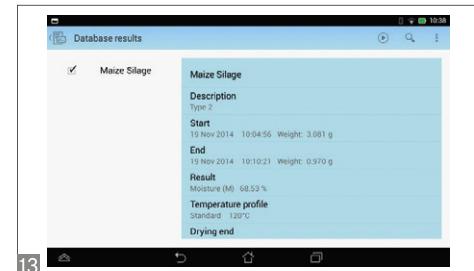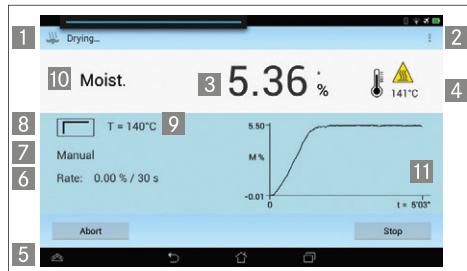
Features

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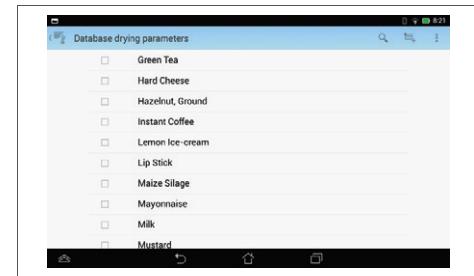
Balance contains memories for automatic sequence of 300 drying programs (12 free characters for each memory). Many useful programs are already preinstalled

Accessories

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

STANDARD | OPTION

| CAL EXT | MEMORY | RS 232 | BT | WLAN | PRINTER (GLP) | UNIT | 230 V | 230 V | DMS | 1 DAY | 3 YEARS WARRANTY | DAkkS +3 DAYS |

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	⌐ Standard drying ⌐ Gradual drying ⌐ Gentle drying ⌐ Rapid drying
Switch off criteria	• Automatic unrestricted switch off (selectable loss in weight 0,1–10 % or 1–60 mg, selectable time 1–99 s) • Time controlled switch off (1 min–99 min) • Manual switch off at the press of a button
Log output	• 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
	❗
Option DAkkS Calibration Certificate	963-127

❗ Price reduction

KERN Pictograms:

Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motordriven).
CAL INT

Adjusting program CAL: For quick setting up of the balance's accuracy. External adjusting weight required.
CAL EXT

Memory: Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.
MEMORY

Alibi memory: Electronic archiving of weighing results, complying with the 2009/23/EC standard.
ALIBI

Data interface RS-232: To connect the balance to a printer, PC or network.
RS 232

RS-485 data interface: To connect the balance to a printer, PC or other peripherals. High tolerance against electromagnetic disturbance.
RS 485

USB data interface: To connect the balance to a printer, PC or other peripherals.
USB

Bluetooth* data interface: To transfer data from the balance to a printer, PC or other peripherals.
BT

WLAN data interface: To transfer data from the balance to a printer, PC or other peripherals.
WLAN

Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.
SWITCH

Interface for second balance: For direct connection of a second balance.
DUAL

Network interface: For connecting the scale to an Ethernet network. With KERN products you can use a universal RS-232/LAN converter.
LAN

Wireless data transfer: between the weighing unit and the evaluation unit using an integrated radio module.
RC

GLP/ISO log: The balance displays the weight, date and time, regardless of a printer connection.
GLP INTERN

GLP/ISO log: With weight, date and time. Only with KERN printers.
GLP PRINTER

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

Recipe level A: Separate memory for the weight of the tare container and the recipe ingredients (net total).
RECIPE A

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

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.
RECIPE C

Totalising level A: The weights of similar items can be added together and the total can be printed out.
SUM A

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.
SUM C

Percentage determination: Determining the deviation in % from the target value (100 %).
PERCENT

Weighing units: Can be switched to e.g. non-metric units at the touch of a key. See balance model. Please refer to KERN's website for more details.
UNIT

Weighing with tolerance range: Upper and lower limiting values can be programmed individually for e.g. dosing, sorting and portioning.
TOL

Hold function: (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value.
MOVE

Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram.
IP

ATEX explosion protection: Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device.
ATEX

Stainless steel: The balance is protected against corrosion.
INOX

Suspended weighing: Load support with hook on the underside of the balance.
UNDER

Battery operation: Ready for battery operation. The battery type is specified for each device.
BATT

Rechargeable battery pack: Rechargeable set.
ACCU

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
MULTI

Mains adapter: 230V/50Hz in standard version for EU. On request GB, USA or AUS version available.
230 V

Power supply: Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request.
230 V

Weighing principle: Strain gauge Electrical resistor on an elastic deforming body.
DMS

Weighing principle: Tuning fork A resonating body is electromagnetically excited, causing it to oscillate.
T-FORK

Weighing principle: Electromagnetic force compensation Coil inside a permanent magnet. For the most accurate weighings.
FORCE

Weighing principle: Single cell technology Advanced version of the force compensation principle with the highest level of precision.
SC TECH

Verification possible: The time required for verification is specified in the pictogram.
M +3 DAYS

DAkkS calibration possible (DKD): The time required for DAkkS calibration is shown in days in the pictogram.
DAkkS +3 DAYS

Package shipment: The time required for internal shipping preparations is shown in days in the pictogram.
1 DAY

Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram.
2 DAYS

Warranty: The warranty period is shown in the pictogram.
3 YEARS WARRANTY

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 - 2000 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
• Database supported management of checking equipment and reminder service
• Calibration of force-measuring devices
• DAkkS calibration certificates in the following languages D, GB, F, I, E, NL, PL

Your KERN specialist dealer: