

Premium precision balance KERN PET



KERN PET [d] = 0,001 g

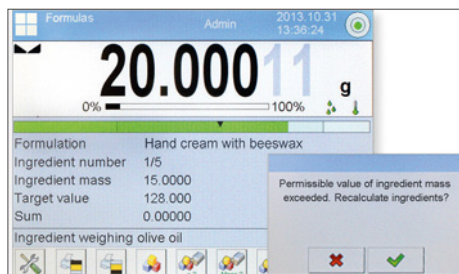


KERN PET [d] = 0,01 g

Premium touchscreen precision balance with the complete range of functions for demanding processes



Individual print formats: Printouts can be individually adjusted depending on operating mode, application or your own requirements, directly at the balance or the PC. In this way the data related to these processes is documented accurately, efficiently and clearly



Convenient recipe-weighing: complete recipes with all recipe ingredients and associated target values, names, tolerances, tare weights etc. can be stored. If one recipe ingredient is overweight, then the practical recipe adjustment function for when dosages are exceeded automatically calculates the new target weights of the other ingredients

Modes

- ① Weighing
- ② Piece counting
- ③ Checkweighing
- ④ Dispensing
- ⑤ Percentage determination
- ⑥ Density
- ⑦ Animal weighing
- ⑧ Recipe weighing
- ⑨ Statistics
- ⑩ Pipette calibration
- ⑪ Differential weighing
- ⑫ Statistical Quality Control (SQC)

Functions

- Capacity display, with ① - ⑫
- Dispensing assistance, with ④, ⑤
- Net/Gross display, with ① - ⑫
- Variable reference quantity, with ②
- Automatic reference optimization, with ②
- Tare deduction automatic, with ① - ⑫
- Entering of item or batch description, operator etc., with ① - ⑫
- Freely programmable weighing unit, with ① - ⑫
- Date/time, with ① - ⑫
- Statistical function, as stand-alone application
- GLP printout, with ① - ⑫
- Individual formatting of print-outs, with ① - ⑫

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3 rapid assignment keys

for frequently recurring applications, functions, settings or memory contents



2 infrared sensors

to initiate functions such as TARE, zeroing, for carrying out, starting or aborting adjustment, calling up database or menu and much more, without having to touch the balance – just give it a wave!

Customised formatting of printout

a range of printouts which can be edited easily at the PC

High level of connectivity

- 1 x Ethernet
- 2 x RS-232
- 2 x USB
- e.g. for data exchange or connecting barcode or RFID scanners
- Digital I/O (4 in/4 out) e.g. to control machines and plants
- 1 x additional display
- 1 x WLAN (selected models)

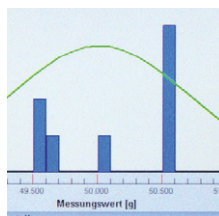
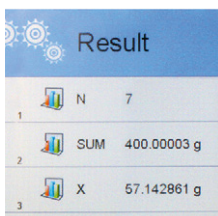


Individual user settings can be stored

- User name and number
- Password
- Authorisations
- Menu language (DE, GB, FR, IT, ES, PL)
- User profiles
- Additional guest mode for users without user log-in

Alibi memory

Electronic archiving of weighing results, see also page 214



Statistical function

for statistical analysis of series of measurements. The graphic display of measurements can be used by the operator to check and evaluate their results

Convenient recipe-weighing

complete recipes with all recipe ingredients and associated nominal values, names, tolerances, tare weights etc. can be stored. If one recipe ingredient is overweight, then the practical recipe adjustment function for when dosages are exceeded automatically calculates the new target weights of the other ingredients. Recipes and their ingredients can be multiplied at will at the press of a button, which is ideal for the production of larger containers, bulk packs etc. (Multiplier function)

Enormous database

with optional software KERN PET-A01, this can be filled in easily at the PC. Particularly beneficial when counting a large number of individual items, as part of a stocktaking, for checkweighing, recording recipes etc.

Intuitive use, increases efficiency and saves costs

Easy capture of article data at the PC, call up of items on the balance using the connected barcode or RFID scanner, output of weighing data using the large or second display or control outputs, data transfer to the PC, printer or alibi memory.



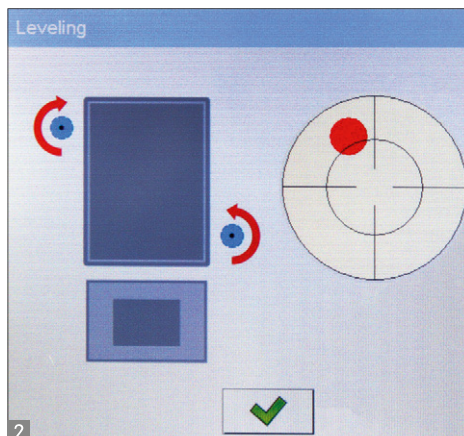
Innovative touchscreen

Large backlit and touch-sensitive LCD screen with digit height 17 mm, screen size 5.7" (approx. 145 mm), WxH 115x86 mm. Dimensions of display device WxDxH 208x71x150 mm.

Data exchange via USB

to download software updates, export recipes or weighing results, export/import databases, balance settings, data exchange between individual balances and much more

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Features

- **Intuitive operation, increases efficiency and saves costs:** Easy entering of item data at the PC, call up of items on the balance using the connected **1** barcode or RFID scanner, output of weighing data using the large or second display or control outputs, data transfer to the PC, printer or alibi memory
- **Individual user settings can be stored**
User name and number
 - Password
 - Menu language
 - User profile
 - Additional guest mode for users without log-in
 - Authorisations, e.g. capture or modification of a recipe only with authorisation, recipe weighing can be carried out by the user
- **Best-before dates** can be stored and printed for each item
- **Difference determination:** Weighing a sample before and after a machining process and automatic output of the difference value
- **Multiplier function:** recipes and their ingredients can be multiplied at will at the press of a button, which is ideal for the production of larger containers, bulk packs etc.
- **Enormous database (1 GB)** for thousands of weighing results, items, recipes, recipe ingredients, container weights, user data etc.
- **Alibi memory:** electronic archiving of weighing results, see also page S. 214

- **2 Electronic level indicator** continuously checks the position of the balance, sounds an alarm when the device is out of balance and gives visual instructions on how to correct the situation
- **3 High level of process reliability:** you can define limit values for selected parameters, such as, for example, temperature, levelling, minimum load, adjustment, etc. When the value falls outside these limits, a warning message will be issued and this can be stored with the measuring result
- **Draught shield** standard for models with weighing plate size **A**, weighing space WxDxH 140x140x65 mm

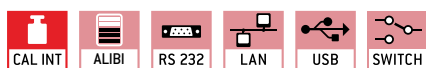
Technical data

- Backlit and touch-sensitive LCD display with digit height 21 mm, screen diagonal 5,7" (approx. 145 mm), WxH 115x86 mm. Dimensions of display device WxDxH 215x156x71 mm
- Hook for underfloor weighing standard
- Weighing plate dimensions, stainless steel, WxD
 - A** 128x128 mm
 - B** 195x195 mm
- Overall dimensions WxDxH
 - A** 431x221x168 mm
 - B** 431x221x99 mm
- Permissible ambient temperature 15 °C / 35 °C

Accessories

- **RS-232 barcode scanner**, hand-held version, dimensions WxDxH 152x84x63 mm, for details see page 184, KERN PET-A05
- **USB barcode scanner**, hand-held version, dimensions WxDxH 152x84x63 mm, for details see page 184, KERN PET-A09
- **USB keyboard** for easy capture of items, descriptions etc., dimensions WxDxH 440x128x24 mm, for details see page 185, KERN PET-A06
- **Second display**, dimensions WxDxH 150x33x80 mm, for details see page 185, KERN PET-A03
- **Direct thermal label printer**, software for easy editing of (adhesive) labels included, for details see page 184, KERN PET-A13
- **Thermal transfer and direct thermal label printer**, software for easy editing of (adhesive) labels included, for details see page 184, KERN PET-A14
- **Software for database management**, for convenient maintenance of item data at the PC. Data transfer to the balance using the interface cable, for details see page 184, KERN PET-A01
- **Set for density determination** of liquids and solids $\leq/\geq 1$, for details see page 183, KERN YDB-03

STANDARD



OPTION

FACTORY



Model	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Weighing plate		Options			
							Verification		DAkkS-Calibr. Certificate	
KERN							MD KERN		DKD KERN	
PET 600-3M	600	0,001	0,01	0,02	A		965-216		963-127	
PET 1000-3M	1000	0,001	0,01	0,02	A		965-216		963-127	
PET 2500-2M	2500	0,01	0,1	0,5	B		965-216		963-127	
PET 6000-2M	6000	0,01	0,1	0,5	B		965-217		963-128	

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.
Verification at the factory, we need to know the full address of the location of use.

KERN Pictograms:



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



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



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



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



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



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



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



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



Rechargeable battery pack: Rechargeable set.



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



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.



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



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



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



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



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



Power supply: 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 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.



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



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



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



WLAN 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: 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 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.



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



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



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



Verification possible:
The time required for verification is specified in the pictogram.



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



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



DAKkS calibration possible (DKD): The time required for DAKkS calibration is shown in days in the pictogram.



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



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



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



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



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



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



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



Stainless steel: The balance is protected against corrosion.



Warranty: The warranty period is shown in the pictogram.

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: