

The new touchscreen models KERN AET · PET · ILT



NEW

PREMIUM
★★★

State-of-the-art premium touchscreen balance series with the complete range of functions for demanding processes



Analytical balance KERN AET



Analytical balance KERN AET [d] 0,01 mg



Precision balance KERN PET



Industry scale KERN ILT-NM



Platform scale KERN ILT-BM

Features of the new touchscreen models KERN AET · PET · ILT

2 infrared sensors

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



Innovative touchscreen

Large backlit and touch-sensitive LCD screen with digit height 17 mm, screen size 5.7" (approx. 145 mm), W x H 115x86 mm. Dimensions of display device WxDxH 208x150x71 mm.

Intuitive operation, increases efficiency and saves costs

Easy capture of item data at the PC, recall 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.

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 rapid assign keys

for frequently recurring applications, functions, settings or memories

Difference calculation

Weighing a sample before and after a machining process and automatic output of the difference value (AET, PET only)



Individual print formats

up to 16 printouts which can be edited easily at the PC

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 more than it should be, then the practical back calculation function automatically calculates the new target weights of the other ingredients



High level of connectivity

- 1 x Ethernet
- 2 x RS-232
- 2 x USB
- 1 x additional display
- Digital I/O (4 in / 4 out)
e.g. for data exchange or connection of barcode or RFID scanners for quick recall of stored items

Individual user settings can be stored

- User name and number
- Password
- Authorisations
- Menu language
- User profiles
- Additional guest mode for users who are not logged in



Statistical function

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

Intuitive pipette calibration in accordance with ISO 8655

to guarantee pipette volumes and to minimise the risks in the daily work with your pipettes (AET only)

Alibi memory

Paperless archiving of weighing results, see also page 13

Enormous database (1 GB)

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



Data exchange via USB

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

Technical data of the new touchscreen models KERN AET · PET · ILT

For models with EC type approval: 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.

STANDARD (FOR ALL SERIES)

OPTION FACTORY



Analytical balances	Weighing range [Max] g	Read-out [d] mg	Verific. value [e] mg	Minimum load [Min] mg	Reproducibility mg	Linearity mg	Net weight approx. kg	Options					
								Verification		DKD Calibr. Certificate			
								MT KERN		KERN			
KERN													
AET 500-4	510	0,1	-	-	0,1	0,4	6,2	-			963-101		
AET 200-5DM	82 220	0,01 0,1	1	1	0,02 0,1	0,06 0,2	12,7	965-201			963-101		
AET 100-5M	110	0,01	1	1	0,03	0,07	12,7	965-201			963-101		
AET 200-4NM	220	0,1	1	10	0,2	0,3	6,2	965-201			963-101		



KERN AET [d] 0,1 mg

KERN AET [d] 0,01 mg



Technical data

- Hook for underfloor weighing standard
- Dimensions of weighing plate, stainless steel, Ø 85 mm
- Dimensions housing BxTxH on all models with [d] = 0,01 mg: 217x573x348 mm with [d] = 0,1 mg: 217x360x348 mm
- Weighing space WxDxH 217x360x348 mm
- Permissible ambient temperature 18°C / 30°C

Accessories

- **Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03,
- **Set for the determination of density** of liquids and solids $\leq/\geq 1$. Step-by-step user guidance, as well as the calculated density shown immediately on the display, see page 142, KERN YDB-01,
- For suitable printers, see page 130

Precision balances	Weighing range [Max] g	Read-out [d] g	Verific. value [e] g	Minimum load [Min] g	Weighing plate mm	Net weight approx. kg	Options						
							Verification		DKD Calibr. Certificate				
							MT KERN		KERN				
KERN													
PET 600-3M	600	0,001	0,01	0,02	128x128	5,2	965-216				963-127		
PET 1000-3M	1000	0,001	0,01	0,02	128x128	5,2	965-216				963-127		
PET 2500-2M	2500	0,01	0,1	0,5	195x195	5,2	965-216				963-127		
PET 6000-2M	6000	0,01	0,1	0,5	195x195	5,2	965-217				963-128		



Technical data

- Hook for underfloor weighing standard
- Weighing space on all models [d] = 0,001 g WxDxH 128x128x128 mm
- Permissible ambient temperature 15 °C / 35 °C

Platform scales	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Minimum load [Min] g	Weighing plate mm	Net weight approx. kg	Options						
							Verification		DKD Calibr. Certificate				
							MT KERN		DKD KERN				
ILT 6K-3GM	3 6	1 2	1 2	40	230x230	5,25	965-228				963-128		
ILT 6K-4BM	6	0,1	1	5	195x195	2,7	965-217				963-128		
ILT 10K-3GM	6 15	2 5	2 5	40	300x240	5,25	965-228				963-128		
ILT 10K-3LGM	6 15	2 5	2 5	40	400x300	14,95	965-228				963-128		
ILT 10K-5NM	10	0,01	0,1	0,5	347x259	19,9	965-217				963-128		
ILT 30K-2GM	15 30	5 10	5 10	200	400x300	10,35	965-228				963-128		
ILT 60K-2GM	30 60	10 20	10 20	400	400x300	10,35	965-229				963-129		
ILT 60K-2LGM	30 60	10 20	10 20	400	500x400	14,9	965-218				963-129		
ILT 35K-4NM	35	0,1	1	5	347x259	19,9	965-217				963-128		
ILT 50K-4C	50	0,1	-	-	347x259	13,5	-				963-128		
ILT 60K-3BM	60	1	10	50	500x400	12,5	965-229				963-129		
ILT 100K-2GM	60 150	20 50	20 50	1000	500x400	14,9	965-229				963-129		
ILT 100K-2LGM	60 150	20 50	20 50	1000	650x500	21,4	965-229				963-129		
ILT 300K-2GM	150 300	50 100	50 100	2000	650x500	21,4	965-229				963-129		



ILT-NM

ILT-BM

ILT-GM

ILT-BM






































Technical data

- Permissible ambient temperature 15 °C / 35 °C



KERN Pictograms

 Internal adjusting (CAL): Quick setting of the balance's accuracy with internal adjusting weight (motordriven).	 Recipe level A: Separate memory for the weight of the tare container and the recipe ingredients (net total).	 Rechargeable battery pack: rechargeable set.
 Adjusting program (CAL): For quick setting of the balance's accuracy. External adjusting weight required.	 Recipe level B: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through displays.	 Mains adapter: 230V/50Hz in standard version for Germany. On request GB, AUS or USA version.
 Memory: Balance contains memories, e.g. for item data, weighing data, tare weights etc. PLU.	 Recipe level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through displays. Additional convenient functions, such as barcode and back calculation functions.	 Power supply: integrated in balance. 230V/50Hz in Germany. More standards e. g. GB, AUS, USA on request.
 Data interface RS-232: To connect the balance to a printer, PC or network.		 Strain gauges: Electrical resistor on an elastic deforming body.
 RS 485 data interface: To connect the balance to a printer, PC or other peripheral devices. High tolerance against electromagnetic disturbance.	 Percentage determination: Determining the deviation in % from the target value (100%).	 Tuning fork principle: A resonating body is electromagnetically excited, causing it to oscillate.
 USB data interface: To connect the balance to a printer, PC or other peripheral devices.	 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.	 Electromagnetic force compensation: Coil in a permanent magnet. For the most accurate weighings.
 Bluetooth data interface: To transfer data from the balance to a printer, PC or other peripheral devices.	 Weighing with tolerance range: Upper and lower limiting can be programmed individually, e.g. dosing/sorting and portioning.	 Single cell technology: Advanced version of the force compensation principle with the highest level of precision.
 Control outputs (optocoupler, digital I/O): to connect relays, signal lamps, valves, etc.	 Vibration-free weighing: (Animal weighing program) Vibrations are filtered out so that a stable weight is obtained.	 Verification possible: The time required for verification is specified in the pictogram.
 Interface for second balance: for direct connection of a second balance.	 Spray and dust protection IPxx: The type of protection is shown by the pictogram. For details see the glossary.	 DKD calibration possible: The time required for DKD calibration is shown in days in the pictogram.
 Network interface: For connecting the scale to an Ethernet network. With KERN products you can also use a universal RS-232/LAN converter.	 Stainless steel: the balance is protected against corrosion.	 Package shipment: The time required to manufacture the product internally is shown in days in the pictogram.
 GLP/ISO record keeping: of weighing data with date, time and identification-no. Only with printers from KERN.	 Suspended weighing: load support with hook on the underside of the balance.	 Pallet shipment: The time required to manufacture the product internally is shown in days in the pictogram.
 Piece counting: Reference quantities selectable. Display can be switched from piece to weight.	 Battery operation: Ready for battery operation. The battery type is specified for each device.	 Warranty: The warranty period is shown in the pictogram.

Precision is our business

To ensure the high precision of your balance KERN offers you the the appropriate test weight package for your balance, consisting of the test weight, box and DKD certificate, as proof of its accuracy ... the best pre-requisite for proper balance calibration.

In the extensive KERN test weight range, you will find test weights in the international OIML error limit classes: E1, E2, F1, F2, M1, M2, M3 with weights from 1 mg - 2000 kg.

The KERN DKD calibration laboratory for electronic balances and weights has been accredited by DKD since 1994 and today is one of the most modern and best-equipped DKD calibration laboratories for balances, test weights and force-measurement in Europe.

(DKD = German Calibration Service)

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

Range of services:

- DKD calibration of balances with a maximum load of up to 6 t
- DKD calibration of weights in the range of 1 mg – 500 kg
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DKD calibration certificates in the following languages
D, GB, F, I, E, NL, PL

Do you have questions about your scale, the corresponding test weight or the calibration service? Your KERN specialist dealer will be pleased to assist you.

Your KERN specialist dealer: