Platform scale KERN ILT

PREMIUM ★★★

Note for information on further useful functions for this range, please see pages 6 and 7

KERN ILT-BAM

Modes
① Weighing
② Counting
③ Percentage determination
④ Dispensing
⑤ Recipe weighing
⑥ Density determination
⑦ Animal weighing

Functions
- Capacity display, with ① – ⑦
- Dispensing assistance, with ④, ⑤
- Net/gross display, permanent, with ① – ⑦
- Variable reference quantity, with ②
- Automatic reference optimisation, with ②
- PRE-TARE numerical or from the memory unit, with ① – ⑦
- Input of item or batch description, operator etc., with ① – ⑦
- Freely programmable weighing unit, with ① – ⑦
- Date/time, with ① – ⑦
- Statistical function, with ① – ⑦
- GLP printout, with ① – ⑦
- Individual formatting with ① – ⑦

KERN ILT-BAM

KERN ILT-NM

KERN ILT-GAM

Modern premium touchscreen platform scale with the complete range of functions for demanding processes

User-friendly piece-counting function: creation and recall items to be counted from the database with all relevant additional data such as piece weight, name, price (for internal valuation), reference quantity, tare container weight, barcode, item image etc. Also integrated: automatic reference optimisation, correction of reference weights, freely selectable reference quantity and much more
Note: on the basis of the KERN ILT range, you can put together a wide range of high-performance counting systems - your KERN product specialist will be pleased to advise you

Backlit and touch-sensitive LCD display with digit height 21 mm, screen diagonal 5,7" (145 mm), WxH 115x86 mm. Dimensions of display device WxDxH 215x156x71 mm. Thanks to the interactive touch display, the menu and processes are self-explanatory. This reduces the training times, avoids operating errors and in this way, ensures more efficient functionality

Intuitive operation, increases efficiency and saves costs: Easy capture of item 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.

1

Identification by RFID: rapid and secure identification of users, items, vehicles, etc. using the optional RFID transponder card reader. The data can be read and edited (suitable for ILT-BAM, -GAM, KXE-TAM)

2

Item recognition using the optional barcode scanner is possible, see accessories. Ideal for rapid recording of items, e.g. as part of a stocktake or to record recipe ingredients as part of a recipe etc.

Platform scale KERN ILT

Features

- **Convenient recipe-weighing:** complete recipes with all recipe ingredients and associated target values, names, tolerances, tare weights etc. can be stored. If there is an excess amount of one recipe ingredient the practical back calculation function automatically calculates the new target weights of the other ingredients
- **Multiplier function:** recipes with the ingredient weights recorded as percentage values can easily be replicated by entering a new target weight. The ideal solution for the preparation of larger containers, bulk packs etc.
- **Best-before dates** can be stored and printed for each item
- **Statistical function** for statistical analysis of series of measurements
- **User-friendly batch management** with batch master and batch number assignment, classification, batch derivation, batch determination, batch status management, shelf-life processing, documentary, original and WIP batches, batch-specific units of measure, batch where-used list
- **Individual user settings can be stored:**
  - User name and number
  - Password
  - Menu language
  - User profile
  - Additional guest mode for users without log-in
  - Authorisations
- **Enormous database** for thousands of weighing results, items, recipes, recipe ingredients, container weights, user data etc. ILT-BAM, -GAM: 8 GB, ILT-NM,-C: 1 GB
- **Alibi memory:** paperless archive of weighing results, see page 214
- **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 (only ILT-NM, -C)
- **High level of process reliability:** you can define limit values for selected parameters, such as temperature, levelling, minimum load, adjustment, etc. When the value limit exceeds or falls below, a warning message will be issued and this can be stored with the measuring result
- **Individual print formats:** Printouts can be individually adjusted depending on operating mode, application or your own requirements, directly at the balance or the PC.

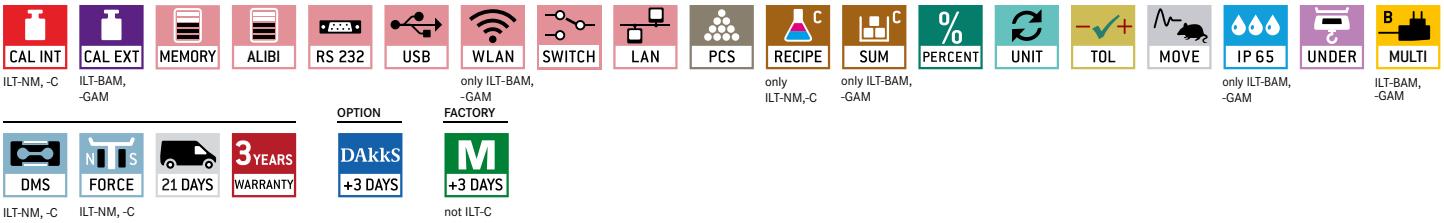
Technical data

- Cable length of display device ILT-BAM approx. 2,5 m; ILT-GAM, -NM, -C approx. 1 m
- Permissible ambient temperature
  ILT-NM, -BAM: 15 °C / 35 °C
  ILT-GAM -10 °C / 40 °C

Accessories

- only -GAM: **Protective working cover** over the display device standard. Can be re-ordered, scope of delivery: 5 items, KERN ILT-A02S05
- **Transponder card reader**, RFID technology, dimensions WxDxH100x135x30 mm, for details see page 186, KERN KET-A05
- **Transponder cards**, 10 pieces, for details see page 186, KERN KET-A08
- 2 **Barcode scanner**, hand-held version, dimensions WxDxH 152x84x63 mm, details see page 184,
  Variant RS-232, KERN PET-A05
  Variant USB, KERN PET-A09
- only-BAM,-GAM: **Signal lamp** for visual support of weighing with tolerance range. For details see page 187, KERN KET-A10
- **Wall mount** for display device, dimensions WxDxH 135x148x110 mm, for details see page 184, KERN KET-A02
- **Second display**, dimensions WxDxH 150x34x80 mm, for details see page 184, KERN KET-A03
- **Large display**, stainless steel, digit height 111,7 mm, dimensions WxDxH 635x195x48 mm, for details see page 184, KERN KET-A06
- **Analogue/Digital converter** to connect up to two platforms to the display device, for details see page 187, KERN KET-A01
- **Label printer**, software for easy editing of (adhesive) labels included, for details see page 184
  thermodirect: KERN PET-A13
  thermotransfer and thermodirect: KERN PET-A14
- **Software for database management**, for convenient maintenance of item data at the PC. For details see page 184, KERN KET-A04
- **Cable with special length**, between display device and platform, for verified models which must be ordered at the time of purchase, KERN ILT-A03
- **RS-232/USB adapter**, to connect peripheral devices with USB connection, for details see page 181, KERN AFH 12
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD



Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Weighing plate mm		Options Verification MC KERN		DAkkS Calibr. Certificate DKD KERN	
ILT 6K-3GAM	3 | 6	1 | 2	1 | 2	40	230x230		965-228		963-128	
ILT 6K-4BAM	6	0,1	1	5	195x195		965-217		963-128	
ILT 10K-3GAM	6 | 15	2 | 5	2 | 5	40	300x240		965-228		963-128	
ILT 10K-3LGAM	6 | 15	2 | 5	2 | 5	40	400x300		965-228		963-128	
ILT 10K-5NM	10	0,01	0,1	0,5	347x259		965-217		963-128	
ILT 30K-2GAM	15 | 30	5 | 10	5 | 10	200	400x300		965-228		963-128	
ILT 60K-2GAM	30 | 60	10 | 20	10 | 20	400	400x300		965-229		963-129	
ILT 60K-2LGAM	30 | 60	10 | 20	10 | 20	400	500x400		965-229		963-129	
ILT 35K-4NM	35	0,1	1	5	347x259		965-217		963-128	
ILT 50K-4C	50	0,1	–	–	347x259		–	–	963-128	
ILT 60K-3BAM	60	1	10	50	500x400		965-218		963-129	
ILT 100K-2GAM	60 | 150	20 | 50	20 | 50	1000	500x400		965-229		963-129	
ILT 100K-2LGAM	60 | 150	20 | 50	20 | 50	1000	650x500		965-229		963-129	
ILT 300K-2GAM	150 | 300	50 | 100	50 | 100	2000	650x500		965-229		963-129	

Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d].

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).

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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.

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

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.

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

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

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

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

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

Stainless steel: The balance is protected against corrosion.

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

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

Rechargeable battery pack: Rechargeable set.

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

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

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

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

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

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

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

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

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

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

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

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:

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