



#### Alibi memory

- Ring memory for up to 49,152 measuring results (744 measuring results per day!)
- Saved measuring results cannot be changed or cleared. If the maximum memory capacity is reached, then the oldest value will be overwritten
- In addition to the measuring result, the date, time, tare value, a sequential number and the serial number of the balance are also saved.
- Saved measuring results can be searched and recalled easily
- The alibi memory can also be used for applications which do not require verification
- Complies with WELMEC 2.5

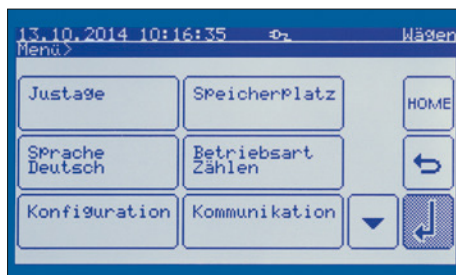


Touchscreen industrial scale with enormous range of functions, also with EC type approval [M]



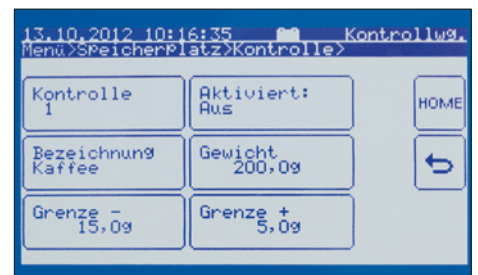
#### Easy input of text and values

Using large keypad, e.g. up to 80 item descriptions, user name, packaging weights etc.



#### 80 memories for each mode

e.g. for Checkweighing, PRE-TARE, reference weight, target value when dispensing, item descriptions, user name, weights for tare containers, etc. Easy to enter using the large-scale keypad



#### Weighing with tolerance range (checkweighing)

Input of an upper/lower limit value. A visual and audible signal assists with portioning, dispensing or grading

## Features

- **Convenient recipe weighing:** 99 recipes with 10 components each can be stored in plain text. There is a function to adjust the other components if the initial weight was too high. The actual values and the desired values as well as the proportionate percentages can be printed afterwards.
- **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.
- **Rapid function** for shortened stabilisation time with reduced readout
- **16 print forms** which can store up to 20 different information, such as, e.g., date, time, operator, item, net, tare, gross, PCS, target weight, PRE-TARE etc. The print forms can be generated easily in an Excel list at the PC and transferred to the balance using the RS-232 interface
- **Control outputs (optocoupler, digital I/O)** to connect relays, signal lamps, valves etc. (35V/80mA)
- **Protective working cover** and **hook for underfloor weighing** standard

## Technical data

- Backlit and touch-sensitive LCD display, digit height 18 mm, screen diagonal 5,8" (127×74 mm)
- Dimensions weighing surface, stainless steel, W×D 340×240 mm
- Overall dimensions W×D×H 350×390×120 mm
- Optional battery operation, 6×1.5 V Size C not included, operating time up to 20 h
- Permissible ambient temperature 10 °C/40 °C

## Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN FKB-A02S05
- **Rechargeable battery pack external**, operating time up to 20 h without backlight, charging time approx. 10 h, KERN KS-A01
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01
- **RS-232/USB adapter**, to connect peripheral devices with USB connection, KERN AFH 12
- **Signal lamp** for visual support of weighing with tolerance range, KERN IKT-A04
- Further details, plenty of further accessories and suitable printers see *Accessories*

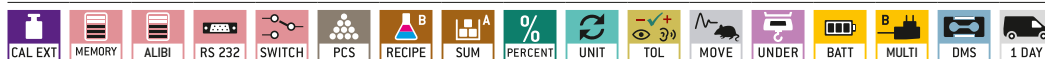
## Modes

- ① Weighing
- ② Counting
- ③ Dispensing
- ④ Recipe weighing
- ⑤ Checkweighing
- ⑥ Totalising with daily total
- ⑦ Percentage determination
- ⑧ Animal weighing
- ⑨ Surface weight
- ⑩ Density determination, not for [M]
- ⑪ Rapid function, not for [M]

## Functions

- Capacity display with ①–②, ⑤–⑦, ⑨–⑪
- Dispensing aid (–/+), with ③, ④
- Net/gross display, permanent, with ①, ③–⑤, ⑧–⑪
- Variable reference quantity, with ②
- Automatic reference optimisation, with ②
- PRE-TARE numerical or from the memory unit, with ①–⑦, ⑪
- Entering of item or batch description, operator etc., with ①–⑦, ⑪
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, grammage g/m<sup>2</sup>, or similar, with ⑨
- Date/time, with ①–⑪
- Statistical function, with ①
- GLP printout, with ①–⑪
- Individual formatting of up to 16 printer forms, recipes, operating mode master data in MS Excel, import via RS-232, for examples, see the internet, with ①–⑪

## STANDARD



## OPTION



## FACTORY



| Model                                                                                                                                               | Weighing range | Readout  | Verification value | Minimal load | Smallest part weight | Options      |  |                           |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|--------------------|--------------|----------------------|--------------|--|---------------------------|--|
|                                                                                                                                                     |                |          |                    |              |                      | Verification |  | DAkKS Calibr. Certificate |  |
|                                                                                                                                                     |                |          |                    |              |                      |              |  |                           |  |
| KERN                                                                                                                                                | [Max]<br>kg    | [d]<br>g | [e]<br>g           | [Min]<br>g   | [Normal]<br>g/piece  |              |  |                           |  |
| FKT 30K0.5L                                                                                                                                         | 30             | 0,5      | -                  | -            | 5                    | -            |  | 963-128                   |  |
| FKT 60K1L                                                                                                                                           | 60             | 1        | -                  | -            | 10                   | -            |  | 963-129                   |  |
| High resolution readout                                                                                                                             |                |          |                    |              |                      |              |  |                           |  |
| FKT 6K0.02L                                                                                                                                         | 6              | 0,02     | -                  | -            | 0,2                  | -            |  | 963-128                   |  |
| FKT 16K0.05L                                                                                                                                        | 16             | 0,05     | -                  | -            | 0,5                  | -            |  | 963-128                   |  |
| FKT 36K0.1L                                                                                                                                         | 36             | 0,1      | -                  | -            | 1                    | -            |  | 963-128                   |  |
| FKT 65K0.2L                                                                                                                                         | 65             | 0,2      | -                  | -            | 2                    | -            |  | 963-129                   |  |
| 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.                                                               |                |          |                    |              |                      |              |  |                           |  |
| FKT 6K1LM                                                                                                                                           | 6              | 1        | 1                  | 20           | 10                   | 965-228      |  | 963-128                   |  |
| FKT 12K2LM                                                                                                                                          | 12             | 2        | 2                  | 40           | 20                   | 965-228      |  | 963-128                   |  |
| FKT 30K5LM                                                                                                                                          | 30             | 5        | 5                  | 100          | 50                   | 965-228      |  | 963-128                   |  |
| FKT 60K10LM                                                                                                                                         | 60             | 10       | 10                 | 200          | 100                  | 965-229      |  | 963-129                   |  |

# KERN Pictograms

|                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>Internal adjusting:</b> Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)                                                                                                                                                                                                                                  |  <b>GLP/ISO log:</b> The balance displays serial number, user ID, weight, date and time, regardless of a printer connection                                                                                                                  |  <b>Suspended weighing:</b> Load support with hook on the underside of the balance                                                                         |
|  <b>Adjusting program CAL:</b> For quick setting up of the balance's accuracy. External adjusting weight required                                                                                                                                                                                                                                    |  <b>GLP/ISO log:</b> With weight, date and time. Only with KERN printers                                                                                                                                                                     |  <b>Battery operation:</b> Ready for battery operation. The battery type is specified for each device                                                      |
|  <b>Memory:</b> Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.                                                                                                                                                                                                                                                |  <b>Piece counting:</b> Reference quantities selectable. Display can be switched from piece to weight                                                                                                                                        |  <b>Rechargeable battery pack:</b> Rechargeable set                                                                                                        |
|  <b>Alibi memory:</b> Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.                                                                                                                                                                                                                                      |  <b>Recipe level A:</b> The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out                                                                                                    |  <b>Universal mains adapter:</b> with universal input and optional input socket adapters for<br>A) EU, GB<br>B) EU, GB, CH, USA<br>C) EU, GB, CH, USA, AUS |
|  <b>Data interface RS-232:</b> To connect the balance to a printer, PC or network                                                                                                                                                                                                                                                                    |  <b>Recipe level B:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display                                                                                             |  <b>Mains adapter:</b> 230V/50Hz in standard version for EU. On request GB, USA or AUS version available                                                   |
|  <b>RS-485 data interface:</b> To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible                                                                                                                                                                    |  <b>Recipe level C:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, multiplier function, adjustment of recipe when dosages are exceeded or barcode recognition |  <b>Power supply:</b> Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request                                          |
|  <b>USB data interface:</b> To connect the balance to a printer, PC or other peripherals                                                                                                                                                                                                                                                             |  <b>Totalising level A:</b> The weights of similar items can be added together and the total can be printed out                                                                                                                              |  <b>Weighing principle: Strain gauges</b> Electrical resistor on an elastic deforming body                                                                 |
|  <b>Bluetooth* data interface:</b> To transfer data from the balance to a printer, PC or other peripherals                                                                                                                                                                                                                                           |  <b>Percentage determination:</b> Determining the deviation in % from the target value (100 %)                                                                                                                                               |  <b>Weighing principle: Tuning fork</b> A resonating body is electromagnetically excited, causing it to oscillate                                          |
|  <b>WLAN data interface:</b> To transfer data from the balance to a printer, PC or other peripherals                                                                                                                                                                                                                                                |  <b>Weighing units:</b> 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                                                                                   |  <b>Weighing principle: Electromagnetic force compensation</b> Coil inside a permanent magnet. For the most accurate weighings                            |
|  <b>Control outputs (optocoupler, digital I/O):</b> To connect relays, signal lamps, valves, etc.                                                                                                                                                                                                                                                  |  <b>Weighing with tolerance range:</b> (Check-weighing) Upper and lower limiting can be programmed individually, e.g. for sorting and dosing. The process is supported by an audible or visual signal, see the relevant model              |  <b>Weighing principle: Single cell technology</b> Advanced version of the force compensation principle with the highest level of precision              |
|  <b>Interface for second balance:</b> For direct connection of a second balance                                                                                                                                                                                                                                                                    |  <b>Hold function:</b> (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value                                                                                              |  <b>Verification possible:</b> The time required for verification is specified in the pictogram                                                          |
|  <b>Network interface:</b> For connecting the scale to an Ethernet network                                                                                                                                                                                                                                                                         |  <b>Protection against dust and water splashes IPxx:</b> The type of protection is shown in the pictogram.                                                                                                                                 |  <b>DAkkS calibration possible (DKD):</b> The time required for DAkkS calibration is shown in days in the pictogram                                      |
|  <b>Wireless data transfer:</b> between the weighing unit and the evaluation unit using an integrated radio module                                                                                                                                                                                                                                 |  <b>Stainless steel:</b> The balance is protected against corrosion                                                                                                                                                                        |  <b>Package shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram                                         |
|  <b>KERN Communication Protocol (KCP):</b> It is a standardized interface command set for KERN balances and other instruments, which allows retrieving and controlling all relevant parameters and functions of the device. KERN devices featuring KCP are thus easily integrated with computers, industrial controllers and other digital systems |                                                                                                                                                                                                                                                                                                                               |  <b>Pallet shipment:</b> The time required for internal shipping preparations is shown in days 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 - 2500 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
- Volume determination and measuring of magnetic susceptibility (magnetic characteristics) for test weights
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DAkkS calibration certificates in the following languages DE, GB, FR, IT, ES, NL, PL
- Conformity evaluation and reverification of balances and test weights

## Your KERN specialist dealer:

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