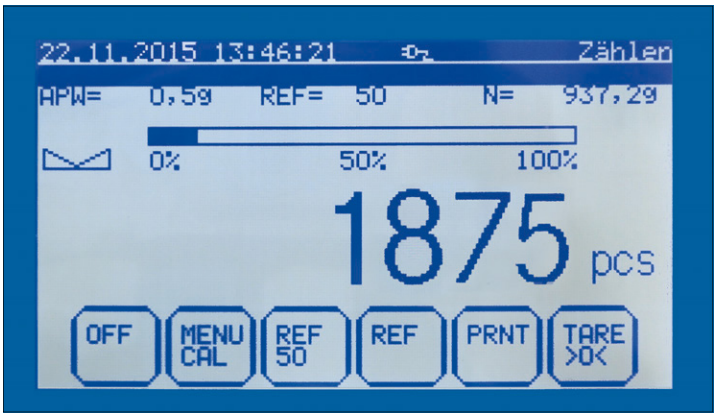
Bench scale KERN FKT

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

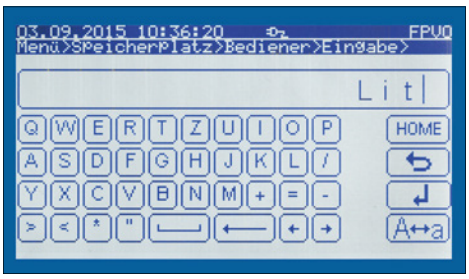
Touchscreen industrial scale with enormous range of functions, also with EC type approval [M]



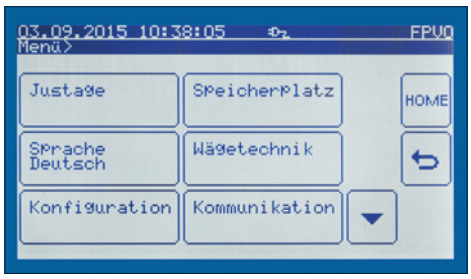
Display at full size, operating mode counting

Innovative touchscreen: Large touch-sensitive, backlit screen with very good contrast for easy operation and convenient reading

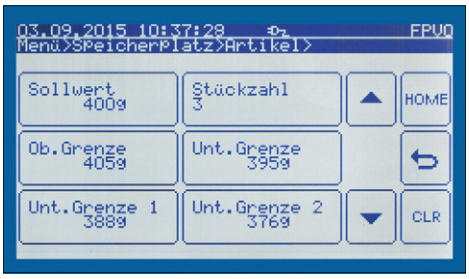
Advantages:
- The menu and processes are self-explanatory
- No more errors or lost time through keys wich have several functions assigned to them or unclear markings
- Large keys, which can also be operated when wearing gloves
- More efficient, faster and safer working



Easy entering of text and values
e.g. item descriptions, user name, weights of tare containers, etc. using the large keypad



80 memories for each mode (FKT-M: 40)
e.g. for checkweighing, PRE-TARE, reference weight, target weight for dispensing etc.



Weighing with tolerance range (checkweighing): a visual and audible signal helps with portioning, dispensing or grading

Bench scale KERN FKT

Features

- **Convenient recipe weighing:** 99 recipes each with 10 components each can be stored in plain text. 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. The actual and target values and the proportionate percentage can then be printed. The recipes can be generated easily in an Excel list at the PC and transferred to the balance using the RS-232 interface. Alternatively, the recipes can also be entered directly using the keypad
- **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 in 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. (35 V / 80 mA)
- **Hook for underfloor weighing** of hanging loads standard for models with weighing plate size B

Technical data

- Backlit LCD graphic display with digit height 18 mm, screen diagonal 5.8" (approx. 147 mm)
- Weighing plate dimensions (stainless steel) WxD
  - A 253x228 mm
  - B 340x240 mm, see enlarged picture
- Overall dimensions WxDxH
  - A 270x345x106 mm
  - B 350x390x120 mm
- Optional battery operation, only for models with weighing plate size B, 6 x 1.5 V Size C not included, operating time up to 20 h
- Permissible ambient temperature 10 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, for models with weighing plate size
  - A KERN FCB-A02S05
  - B KERN FKB-A02S05
- **Rechargeable battery pack external**, operating time up to 10 h, charging time approx. 10 h, not for FKT-M, KERN KS-A01
- **Signal lamp** for visual support of weighing with tolerance range, KERN IKT-A04
- **RS-232/Ethernet adapter**, for connection to an IP-based Ethernet network, for details see page 180, KERN YKI-01
- **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.

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, only with B, not for M
⑪ Rapid function, not for M

Functions

- Capacity display, with ① - ②, ⑤ - ⑦, ⑨ - ⑪
- Dispensing aid (subtractive/additive), 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
- Input 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/m², 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

only FKT-LM

Model KERN	Weighing range [Max] kg	Readout [d] g	Verific. value [e] g	Minimum load [Min] g	Repro-ducibility g	Linearity g	Min. piece weight [Counting] g/piece	Weighing plate		Options: Verification KERN		Options: DAkkS Calibr. Certificate KERN	
FKT 6K0.1	6	0,1	–	–	0,1	± 0,2	0,1	A		–	–	963-128	
FKT 12K0.2	12	0,2	–	–	0,2	± 0,4	0,2	A		–	–	963-128	
FKT 30K0.5L	30	0,5	–	–	0,5	± 1	0,5	B		–	–	963-128	
FKT 60K1L	60	1	–	–	1	± 2	1	B		–	–	963-129	
High-resolution display													
FKT 6K0.02L	6	0,02	–	–	0,04	± 0,1	0,02	B		–	–	963-128	
FKT 16K0.05L	16	0,05	–	–	0,1	± 0,25	0,05	B		–	–	963-128	
FKT 36K0.1L	36	0,1	–	–	0,2	± 0,5	0,1	B		–	–	963-128	
FKT 65K0.2L	65	0,2	–	–	0,4	± 1	0,2	B		–	–	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	0,5	± 0,5	1	B		965-228		963-128	
FKT 12K2LM	12	2	2	40	1	± 1	1	B		965-228		963-128	
FKT 30K5LM	30	5	5	100	2,5	± 2,5	5	B		965-228		963-128	
FKT 60K10LM	60	10	10	200	5	± 5	10	B		965-229		963-129	

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: