Platform scales KERN DS · DS-M







Industrial scale with laboratory accuracy, also with EC type approval [M]

Features

- **User guidance step by step** through Yes/No dialogue on the display
- **Numerical subtraction of tare weight** for known container weight. Useful for checking fill-levels
- **Precisec ounting:** The automatic optimisation of reference weight gradually improves the average value of the piece weight

Technical data

- Large backlit LCDdisplay, digit height 18 mm
- Dimensions of weighing plate stainless steel WxDxH
  A 228x228x70 mm
  B 308x318x75 mm, see larger picture
  C 450x350x115 mm
- Dimensions of display device WxDxH 225x115x60 mm
- Permissible ambient temperature
  KERN DS: 10 °C / 40 °C
  KERN DS-M: 10 °C / 30 °C

Accessories

- **Protective working cover** over the display device, standard, can be reordered, KERN DE-A12
- 1 **Stand** to elevate display device, height of stand approx. 480 mm, KERN DE-A10
- **Mount** to fasten the display device to the platform, KERN DE-A11
- **Wallm ount** for display device, can be reordered, KERN DS-A02
- **Set for underfloor weighing**, for models with weighing plate sizes B, KERN DS-A01
- **Rechargeable battery pack external**, operating time approx. 25 h, charging time approx. 10 h, KERN KS-A01
- **Rechargeable battery pack internal**, operating time up to 10 h, charging time approx. 10 h, can be reordered, KERN KB-A01N
- **Suitable printers** see page 130

STANDARD

CAL EXT · RS 232 · GLP PROTOCOL (only with printer) · PCS · RECIPE · PERCENT · UNIT · MOVE · UNDER B · 230 V · DMS · 1 DAY · 3 YEARS WARRANTY

OPTION

ACCU · DKD +3 DAYS

FACTORY

M +7 DAYS (only DS-M)

Model KERN	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Repro-ducibility g	Min. piece weight [PW min] g/piece	Cable length approx. m	Net weight approx. kg	Weighing plate		Options: Verification (M II) KERN		Options: DKD Calibr. Certificate (DKD) KERN	
DS 3K0.01S	3	0,01	–	0,02	0,01	2	5,1	A		–		963-127	
DS 5K0.05S	5	0,05	–	0,05	0,05	2	5,1	A		–		963-127	
DS 8K0.05	8	0,05	–	0,05	0,05	2	7,5	B		–		963-128	
DS 10K0.1S	10	0,1	–	0,1	0,1	2	4,5	A		–		963-128	
DS 16K0.1	16	0,1	–	0,1	0,1	2	7,5	B		–		963-128	
DS 20K0.1	20	0,1	–	0,1	0,1	2	7,5	B		–		963-128	
DS 30K0.1	30	0,1	–	0,1	0,1	2	7,5	B		–		963-128	
DS 30K0.1L	30	0,1	–	0,1	0,1	0,6	9,5	C		–		963-128	
DS 36K0.2	36	0,2	–	0,2	0,2	2	7,5	B		–		963-128	
DS 36K0.2L	36	0,2	–	0,2	0,2	0,6	9,5	C		–		963-128	
DS 60K0.2	60	0,2	–	0,2	0,2	0,6	9,5	C		–		963-129	
DS 65K0.5	65	0,5	–	0,5	0,5	0,6	9,5	C		–		963-129	
DS 100K0.5	100	0,5	–	0,5	0,5	0,6	9,5	C		–		963-129	
DS 150K1	150	1	–	1	1	0,6	9,5	C		–		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.													
DS 65K1M	65	1	10	1	1	0,6	9,5	C		950-118		963-129	

KERN Pictograms

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

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

Memory: Balance contains memories, e.g. for item data, weighing data, tare weights etc. PLU

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

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 also use a universal RS-232/LAN converter.

GLP/ISO record keeping: of weighing data with date, time and identification-no. Only with printers from KERN.

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

Net-total weighing: weight of tare cup and weight of components memorized in two separate stores.

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

Weighing units: 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.

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

Vibration-free weighing: (Animal weighing program) Vibrations are filtered out so that a stable weight is obtained.

Spray and dust protection IPxx: The type of protection is shown by the pictogram. For details see the glossary.

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.

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

Power supply: integrated in balance. 230V/50Hz in Germany. More standards e. g. GB, AUS, USA on request.

Strain gauges: Electrical resistor on an elastic deforming body.

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

Electromagnetic force compensation: Coil in a permanent magnet. For the most accurate weighings.

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.

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

Package shipment: The time required to manufacture the product internally is shown in days in the pictogram.

Pallet shipment: The time required to manufacture the product internally is shown in days in the pictogram.

Warranty: The warranty period is shown in the pictogram.

Precision is our business

To ensure the high level of precision of your balance, KERN offers the appropriate test weight package for your balance. This consists of the test weight, box and DKD calibration certificate, as proof of its accuracy. The best way to ensure 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, and M3 with weights from 1 mg to 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 ~ UKAS)

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 6000 kg
- 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 corresponsing test weight or the calibration service ? Your KERN specialist dealer will be pleased to assist you.

Your KERN specialist dealer:

KERN – Professional measuring. Measuring technology and testing services from a single source

DKD-K-11801

German Excellence Group
Member

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