



Precision industrial scale with laboratory accuracy, also with EC type approval [M] class II

Features

- **High-capacity precision balance**, ideal for high volume or heavy samples to be weighed with a high degree of accuracy
- **User guidance step by step** on display by Yes/No dialogue
- Numerical subtraction of tare weight for known container weight. Useful for checking fill-levels
- **Precise counting**: The automatic reference weight optimisation of reference weight gradually improves the average piece weight value

- KERN DS: **Freely programmable weighing unit**, e.g. display direct in special units such as length of wire g/m, surface weight g/m², or else

Technical data

- Large backlit LCD display, digit height 18 mm
- Weighing plate dimensions, stainless steel W×D×H
 - A 228×228×90 mm
 - B 308×318×75 mm, see larger picture
 - C 450×350×115 mm

- Dimensions of display device W×D×H 225×115×60 mm
- Cable length of display device approx.
 - A, B 2 m
 - C 0,6 m
- 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 re-ordered, scope of delivery: 5 items, KERN DE-A12S05
- **1 Stand** to elevate display device, height of stand approx. 480 mm, can be retrofitted, KERN DE-A10
- **Mount to fasten the display device** to the platform, can be retrofitted, KERN DE-A11N
- **Wall mount** for display device, KERN DS-A02
- **2 Set for underfloor weighing**, consists of platform, bow, hook, only for models with weighing plate B, KERN DS-A01
- **Rechargeable battery pack external**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01
- **Rechargeable battery pack internal**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KB-A01N
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY


































Model	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimal load [Min] g	Smallest part weight [counting] g/piece	Net weight approx. kg	Weighing plate	Options			
								Verification		DAkkS Calibr. Certificate	
								M	KERN	DKD	KERN
DS 3K0.01S	3	0,01	-	-	0,01	4,2	A	-	-	963-127	
DS 5K0.05S	5	0,05	-	-	0,05	4,2	A	-	-	963-127	
DS 8K0.05	8	0,05	-	-	0,05	8	B	-	-	963-128	
DS 10K0.1S	10	0,1	-	-	0,1	4,2	A	-	-	963-128	
DS 16K0.1	16	0,1	-	-	0,1	8	B	-	-	963-128	
DS 20K0.1	20	0,1	-	-	0,1	8	B	-	-	963-128	
DS 30K0.1	30	0,1	-	-	0,1	8	B	-	-	963-128	
DS 30K0.1L	30	0,1	-	-	0,1	10	C	-	-	963-128	
DS 36K0.2	36	0,2	-	-	0,2	8	B	-	-	963-128	
DS 36K0.2L	36	0,2	-	-	0,2	10	C	-	-	963-128	
DS 60K0.2	60	0,2	-	-	0,2	10	C	-	-	963-129	
DS 65K0.5	65	0,5	-	-	0,5	10	C	-	-	963-129	
DS 100K0.5	100	0,5	-	-	0,5	10	C	-	-	963-129	
DS 150K1	150	1	-	-	1	10	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	50	1	10	C		965-218		963-129
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KERN Pictograms:

 Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motodriven).	 Piece counting : Reference quantities selectable. Display can be switched from piece to weight	 Rechargeable battery pack : Rechargeable set
 Adjusting program CAL: For quick setting up of the balance's accuracy. External adjusting weight required.	 Recipe level A : Separate memory for the weight of the tare container and the recipe ingredients (net total).	 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
 Memory: Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	 Recipe level B : Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display.	 Mains adapter : 230V/50Hz in standard version for EU. On request GB, USA or AUS version available
 Alibi memory: Electronic archiving of weighing results, complying with the 2014/31/EU standard.	 Recipe level C: 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.	 Power supply : Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request.
 Data interface RS-232 : To connect the balance to a printer, PC or network.	 Totalising level A: The weights of similar items can be added together and the total can be printed out.	 Weighing principle: Strain gauge Electrical resistor on an elastic deforming body
 RS-485 data interface : To connect the balance to a printer, PC or other peripherals. High tolerance against electromagnetic disturbance.	 Percentage determination : Determining the deviation in % from the target value (100 %).	 Weighing principle: Tuning fork A resonating body is electromagnetically excited, causing it to oscillate.
 USB data interface : To connect the balance to a printer, PC or other peripherals.	 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 principle: Electromagnetic force compensation Coil inside a permanent magnet. For the most accurate weighings
 Bluetooth* data interface : To transfer data from the balance to a printer, PC or other peripherals.	 Weighing with tolerance range : Upper and lower limiting values can be programmed individually for e.g. dosing, sorting and portioning	 Weighing principle: Single cell technology Advanced version of the force compensation principle with the highest level of precision
 WLAN data interface : To transfer data from the balance to a printer, PC or other peripherals.	 Hold function : (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value	 Verification possible : The time required for verification is specified in the pictogram.
 Control outputs (optocoupler, digital I/O) : To connect relays, signal lamps, valves, etc.	 Protection against dust and water splashes IPxx : The type of protection is shown in the pictogram.	 DAkkS calibration possible (DKD) : The time required for DAkkS calibration is shown in days in the pictogram
 Interface for second balance : For direct connection of a second balance	 ATEX explosion protection : Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device	 Package shipment : The time required for internal shipping preparations is shown in days in the pictogram
 Network interface : For connecting the scale to an Ethernet network. With KERN products you can use a universal RS-232/LAN converter.	 Stainless steel : The balance is protected against corrosion.	 Pallet shipment : The time required for internal shipping preparations is shown in days in the pictogram.
 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.	 Warranty : The warranty period is shown in the pictogram
 GLP/ISO log : With weight, date and time. Only with KERN printers.	 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	

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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