

Precision industrial scale with laboratory accuracy

Features

delivery

- **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
 Freely programmable weighing unit, e.g.
- display direct in special units such as length of wire g/m, surface weight g/m^2 , or else **Protective working cover** included with

Technical data

- Large backlit LCD display, digit height 18 mm
- Weighing plate dimensions, stainless steel $W{\times}D{\times}H$
- A 228×228×95 mm
- 308×318×75 mm, see larger picture
 450×350×115 mm
- Dimensions of display device W×D×H 225×115×60 mm
- Cable length of display device approx.
 - C 0,6 m
- Permissible ambient temperature 10 °C/40 °C







Accessories

- **Protective working cover** over the display device, scope of delivery: 5 items, KERN DE-A12S05
- Stand to elevate display device, only for models with weighing plate sizes 3, 9, height of stand approx. 480 mm, KERN DE-A10
- Mount to fasten the display device to the platform, for models with weighing plate sizes **B**, **M**, KERN DE-A11N
- Wall mount for display device, KERN DS-A02
- 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*

SIANDARD								OPTION				
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CAL EXT	RS 232	PCS	SUM	PERCENT	UNIT	MOVE	MULTI	DMS	1 DAY	UNDER	ACCU	+3 DAYS
										2		

Model	Weighing range Readout		Smallest part weight	Net weight	Weighing plate	Options DAkkS Calibr. Certificate
	[Max]	[d]	[Normal]	approx.		DKD
KERN	kg	g	g/piece	kg		KERN
DS 3K0.01S	3	0,01	0,1	4,2	A	963-127
DS 5K0.05S	5	0,05	0,5	4,2	A	963-127
DS 8K0.05	8	0,05	0,5	8	В	963-128
DS 10K0.1S	10	0,1	1	4,2	A	963-128
DS 16K0.1	16	0,1	1	8	В	963-128
DS 20K0.1	20	0,1	1	8	В	963-128
DS 30K0.1	30	0,1	1	8	В	963-128
DS 30K0.1L	30	0,1	1	10	C	963-128
DS 36K0.2	36	0,2	2	8	В	963-128
DS 36K0.2L	36	0,2	2	10	C	963-128
DS 60K0.2	60	0,2	2	10	C	963-129
DS 65K0.5	65	0,5	5	10	C	963-129
DS 100K0.5	100	0,5	5	10	C	963-129
DS 150K1	150	1	10	10	C	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: Secure, electronic archiving of weighing results, complying with the 2014/31/EU 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. Suitable for data transfer over large distances. Network in bus topology is possible



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



peripherals

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



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

scale to an Ethernet network

an integrated radio module



Network interface: For connecting the



Wireless data transfer: between the

weighing unit and the evaluation unit using



((**†**)))

KERN Communication Protocol (KCP): It is a standardized interface command set for PROTOCOL 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

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 forcemeasurement 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

GLP/ISO log: The balance displays serial number, user ID, weight, date and time, GLP regardless of a printer connection INTERN

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



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



Recipe level A: The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out

Recipe level B: Internal memory for complete recipes with name and target value RECIPE 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, multiplier function, adjust-



ment of recipe when dosages are exceeded or barcode recognition Totalising level A: The weights of similar items can be added together and the total can be printed out

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



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: (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

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



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

Stainless steel: The balance is protected against corrosion INOX



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



BATT

Rechargeable battery pack:

Rechargeable set



and optional input socket adapters for A) EU, GB B) EU, GB, CH, USA C) EU, GB, CH, USA, AUS

230 V

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

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DMS	

Neighing principle: Strain gauges Electrical esistor 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 is specified in the pictogram

Μ +3 DAYS

DAkkS

DAkkS calibration possible (DKD): The time required for DAkkS calibration is shown in +3 DAYS days in the pictogram

Verification possible: The time required for



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

2 DAYS in the pictogram

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

Your KERN specialist dealer:

