IoT-Line Precision Platform Scale KERN DS

















- · Protective working cover over the display device, scope of delivery: 5 items, KERN DE-A12S05
- 1 Column to screw on to the platform for models with weighing plate size B, C, height of stand approx. 480 mm, KERN DE-A10 for models with weighing plate size **©**, height of stand approx. 600 mm, KERN DS-A03
- · Mount to fasten the display device to the platform, for models with weighing plate size f B, f C, D. E. 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
- · External data interface RS-232, interface cable included, KERN KUP-01
- · External data interface USB, interface cable included, KERN KUP-03
- · External data interface Ethernet, KERN KUP-04
- · External data interface WiFi, interface cable included, KERN KUP-05
- · Bluetooth interface adapter, KFRN KUP-06
- · Extension box for connecting up to three interfaces in parallel, KERN KUP-13
- · Further details, plenty of further accessories and suitable printers see Accessories

Precision industrial scale with laboratory accuracy, ideal for the diverse possibilities of Industry 4.0 applications

Features

- · High-capacity precision balance, ideal for high volume or heavy samples to be weighed with a high degree of accuracy
- · 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/m², or else
- · KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay

- · KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- · Protective working cover included with delivery

Technical data

- Large backlit LCD display, digit height 21 mm
- · Weighing plate dimensions, stainless steel
 - A W×D×H 230×230×103 mm
- B W×D×H 308×318×75 mm
- © W×D×H 500×400×125 mm, see larger picture
- Dimensions of display device W×D×H 225×115×60 mm
- Permissible ambient temperature -10 °C/40 °C

Accessories

• Internal rechargeable battery pack, operating time up to 24 h with backlight, charging time approx. 8 h, KERN YKR-01













































Model	Weighing capacity [Max]	Readability [d]	Smallest part weight (Normal)	Resolution	Cable length	Net weight	plate	Options DAkkS Calibr. Certificate DAkkS
					approx.	approx.		
KERN	kg	g	g/piece	Points	m	kg		KERN
DS 3K0.01S	3	0,01	0,1	300.000	2	4,2	Α	963-127
DS 5K0.05S	5	0,05	0,1	100.000	2	4,2	А	963-127
DS 8K0.05	8	0,05	0,5	160.000	2	8	В	963-128
DS 10K0.1S	10	0,1	1	100.000	2	4,2	Α	963-128
DS 16K0.1	16	0,1	1	160.000	2	8	В	963-128
DS 20K0.1	20	0,1	1	200.000	2	8	В	963-128
DS 30K0.1	30	0,1	1	300.000	2	8	В	963-128
DS 30K0.1L	30	0,1	1	300.000	0,6	19	C	963-128
DS 36K0.2	36	0,2	1	180.000	0,6	10	В	963-128
DS 36K0.2L	36	0,2	1	180.000	0,6	19	C	963-128
DS 60K0.2	60	0,2	2	300.000	0,6	19	C	963-129
DS 65K0.5	65	0,5	2	130.000	0,6	19	C	963-129
DS 100K0.5	100	0,5	5	200.000	0,6	19	C	963-129
DS 150K1	150	1	10	150.000	0.6	19	C	963-129

BALANCES & TEST SERVICE 2024

KERN Pictograms



Conformity Assessment

conformity assessment is

specified in the pictogram

The time required for

DAkkS calibration

DAkkS calibration

pictogram

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is shown in days in the

The time required for

Package shipment

The time required for

in the pictogram

Pallet shipment

in the pictogram

The time required for

internal shipping prepa-

rations is shown in days

internal shipping prepa-

rations is shown in days

in days in the pictogram

Factory calibration (ISO)

Factory calibration is shown

possible (DKD)

M

DAkkS

+3 DAYS

ISO

á...



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



EasyTouch

Suitable for the connection, data transmission and control through PC or tablet



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.



KERN Universal Port (KUP)

allows the connection of external KUP interface adapters, e.g. RS-232, RS-485, SB, Bluetooth, WIFI, Analogue, Ethernet etc. for the exchange of data and control commands, without installation effort



RS-232 Data interface

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



Bluetooth* Data interface

To transfer data from the balance to a printer, PC or other peripherals



WIFI 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.



Analogue interface

to connect a suitable peripheral device for analogue processing of the measurements



Interface for second balance

For direct connection of a second balance



Network interface

For connecting the scale to an Ethernet network



KERN Communication Protocol (KCP)

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



GLP/ISO log intern

The balance displays weight, date and time, independent of a printer connection



GLP/ISO log Printer

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

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 of the recipe ingredients. User guidance through display



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 %)



Weighing units

Can be switched to e.g. nonmetric units. See balance model. Please refer to KERN's website for more details



Weighing with tolerance range (Checkweighing)

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 stable weight is calculated as an average value



Protection against dust and water splashes IPxx

The type of protection is shown in the pictogram



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 plug-in power supply

with universal input and optional input socket adapters for A) EU, CH, GB B) EU, CH, GB, US C) EU, CH, GB, US, AUS

Plug-in power supply



230V/50Hz in standard version for EU, CH. On request GB, USA or A

On request GB, USA or AUS version available



Integrated power supply unit

Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request



Weighing principle Strain gauges

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



