PROFESSIONAL MEASURING
SINCE 1844

KERN

Product brochure

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# KERN DS 8K0.05

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

ENGLISH




## CONTACT

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## APPLICATION EXAMPLE



## 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
- 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
- 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
- Standardised, simplified concept of operation
- Protective working cover included with delivery

## TECHNICAL DATA

- Large backlit LCD display, digit height 21 mm
- Weighing platform dimensions, stainless steel, W×D×H 308×318×75 mm
- Dimensions of display device W×D×H 225×115×60 mm
- Cable length of display device approx. 2,5 m
- Net weight approx. 8 kg
- Permissible ambient temperature -10 °C/40 °C

## MAIN SCOPE OF APPLICATIONS

- Quality assurance
- Test equipment monitoring
- Digital processes

## PLEASE NOTE FOR YOUR ORDER

- Simultaneous connection of up to three optional interfaces is only possible with the Extension Box KUP-A13. Without the box, only one optional interface can be used at a time.

## PICTOGRAMS

Standard




Option




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## MODEL OVERVIEW

| Model | Weighing capacity [Max] | Readability [d] | Dimensions weighing surface | Net weight approx. |
|---|---|---|---|---|
| DS 10K0.1S | 10 kg | 0,0001 kg | 228×228 mm | 4,2 kg |
| DS 16K0.1 | 16 kg | 0,0001 kg | 308×318 mm | 8 kg |
| DS 20K0.1 | 20 kg | 0,0001 kg | 308×318 mm | 8 kg |
| DS 30K0.1 | 30 kg | 0,0001 kg | 308×318 mm | 8 kg |
| DS 36K0.2 | 36 kg | 0,0002 kg | 308×318 mm | 10 kg |
| DS 3K0.01S | 3000 g | 0,01 g | 228×228 mm | 4,2 kg |
| DS 8K0.05 | 8000 g | 0,05 g | 308×318 mm | 8 kg |

## ACCESSORIES

| Model | Description |
|---|---|
| CFS-A03 | Signal lamp KERN CFS-A03 |
| DE-A10 | Tripod DE-A10, Height of stand approx. 480 mm |
| DE-A11N | Mounting metal sheet DE-A11N |
| DE-A12 | Protective working cover DE-A12 |
| DE-A12S05 | Protective working cover DE-A12S05, scope of delivery: 5 items |
| DE-A13 | Wall mount DE-A13 |
| KUP-01 | RS-232 interface KUP-01 |
| KUP-03 | Interface USB-Device KUP-03 |

| Model | Description |
|---|---|
| KUP-04 | Ethernet interface KUP-04 |
| KUP-05 | WiFi interface KUP-05 |
| KUP-06 | Bluetooth BLE interface KUP-06 |
| KUP-13 | Extension box KUP-13 |
| YKA-27 | Power adapter YKA-27 (5,9V, 1A \| 100 V - 240 V, 50 / 60 Hz \| EURO, UK, US, CH) |
| YKC-01 | Thermal printer YKC-01 |
| YKG-01 | Dot Matrix Printer YKG-01 |
| YKH-01 | Thermal printer YKH-01 |
| YKR-01 | Rechargeable battery pack YKR-01 |
| YKT-01 | Needle printer YKT-01 |



## SOFTWARE

| Model | Description |
|---|---|
| SCD-4.0-DL | Software SCD-4.0-DL (Scope of supplies: Download link for 1 license) |
| SCD-4.0-DLS05 | Software SCD-4.0-DLS05 (Scope of supplies: Download link for 5 licenses) |
| SCD-4.0-PRO-DL | Software SCD-4.0-PRO-DL (Scope of supplies: Download link for 1 license) |
| SCD-4.0-PRO-DL-AS05 | Software SCD-4.0-PRO-DL-AS05 (Scope of supplies: Download link for 5 licenses) |
| SET-01 | Software KERN EasyTouch SET-01-2025a Base |
| SET-01 | Software KERN EasyTouch SET-01 Base |
| SET-04 | Software KERN EasyTouch SET-04-2025a Density |
| SET-04 | Software KERN EasyTouch SET-04 Density |
| SET-05 | Software KERN EasyTouch SET-05-2025a Dynamic |
| SET-05 | Software KERN EasyTouch SET-05 Dynamic |
| SET-06 | Software KERN EasyTouch SET-06-2025a Classification |
| SET-06 | Software KERN EasyTouch SET-06 Classification |
| SET-07 | Software KERN EasyTouch SET-07-2025a Variable |
| SET-07 | Software KERN EasyTouch SET-07 Variable |
| SET-08 | Software KERN EasyTouch SET-08-2025a Take-out |
| SET-08 | Software KERN EasyTouch SET-08 Take-out |
| SET-10 | Software KERN EasyTouch SET-10 Save Server |
| SET-11 | Software KERN EasyTouch SET-11-2025a Safety |

| Model | Description |
|---|---|
| SET-11 | Software KERN EasyTouch SET-11 Safety |
| SET-14 | Software KERN EasyTouch SET-14-2025a Individual Print |
| SET-14 | Software KERN EasyTouch SET-14 Individual Print |
| SET-16 | Software KERN EasyTouch SET-16-2025a Batch and Statistics |
| SET-16 | Software KERN EasyTouch SET-16 Batch and Statistics |
| SET-17 | Software KERN EasyTouch SET-17-2025a PrePack |
| SET-17 | Software KERN EasyTouch SET-17 PrePack |
| SET-18 | Software KERN EasyTouch SET-18-2025a Container Master |
| SET-18 | Software KERN EasyTouch SET-18 Container Master |
| SET-21 | Software KERN EasyTouch SET-21-2025a Formulation |
| SET-21 | Software KERN EasyTouch SET-21 Formulation |
| SET-22 | Software KERN EasyTouch SET-22-2025a Difference |
| SET-22 | Software KERN EasyTouch SET-22 Difference |
| SET-31 | Software KERN EasyTouch SET-31-2025a Tolerance |
| SET-31 | Software KERN EasyTouch SET-31 Tolerance |
| SET-32 | Software KERN EasyTouch SET-32-2025a Count |
| SET-32 | Software KERN EasyTouch SET-32 Count |
| SET-33 | Software KERN EasyTouch SET-33-2025a Target Count |
| SET-33 | Software KERN EasyTouch SET-33 Target Count |
| SET-35 | Software KERN EasyTouch SET-35-2025a Assembly Count |
| SET-35 | Software KERN EasyTouch SET-35 Assembly Count |
| SET-37 | Software KERN EasyTouch SET-37-2025a Export Manager |
| SET-37 | Software KERN EasyTouch SET-37 Export Manager |
| SET-39 | Software KERN EasyTouch SET-39 Data Interface |
| SET-40 | Software KERN EasyTouch SET-40 Protect |
| SET-46 | Software KERN EasyTouch SET-46-2025a Backup Scheduler |
| SET-46 | Software KERN EasyTouch SET-46 Backup Scheduler |
| SET-51 | Software KERN EasyTouch SET-51-2025a Audit Logs |
| SET-51 | Software KERN EasyTouch SET-51 Audit Logs |
| SET-52 | Software KERN EasyTouch SET-52-2025a Inventory |
| SET-52 | Software KERN EasyTouch SET-52 Inventory |

| Model | Description |
|---|---|
| SET-261 | Software KERN EasyTouch SET-261 Audio Management |
| SET-311 | Software KERN EasyTouch SET-311-2025a Quick Key |
| SET-311 | Software KERN EasyTouch SET-311 Quick Key |
| SET-411 | Software KERN EasyTouch SET-411-2025a Hotkeys |
| SET-411 | Software KERN EasyTouch SET-411 Hotkeys |

## SERVICES

| Model | Description |
|---|---|
| 963-128 | DAkkS calibration certificate 963-128 |
| 969-517 | Confirmation of the manufacturer's specification (only in combination with DAkkS calibration certificate)969-517 |
| 970-102 | Warranty extension (+2 years) 970-102 |

# KERN Pictogram Overview

| | |
|---|---|
|  | External adjustment: Adjusting accuracy using external adjustment weight |
|  | KERN IoT-Line balances – smart weighing solutions for the digital future |
|  | KERN Universal Port (KUP): allows the connection of external KUP interface adapters, e.g. RS-232, RS-485, USB, Bluetooth, WiFi, Analogue, Ethernet etc. for the exchange of data and control commands, without installation effort |
|  | KERN Communication Protocol (KCP): 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 |
|  | Piece counting: Reference quantities selectable. Display can be switched from piece to weight |
|  | Sum function: The weight values of weighed items can be added together and the total printed out |
|  | Percentage determination: determining the deviation in % from the target value (100 %) |
|  | Units can be switched to e.g. non-metric units |
|  | Measuring with tolerance range (checkweighing): Upper and lower limit values can be programmed, e.g. for sorting, portioning or for measuring coatings or material thicknesses. The process is supported by an acoustic and/or optical signal |
|  | Hold function: When the weighing conditions are unstable, a stable weight is calculated as an average value |
|  | Universal plug-in power supply: With universal input and optional input socket adapters for EU, CH, GB or EU, CH, GB, US or EU, CH, GB, US, AUS |
|  | Weighing principle Strain gauges: Electrical resistor on an elastic deforming body |
|  | Package shipment by courier service: The duration of internal product provision is one day |
|  | EasyTouch: Suitable for the connection, data transmission and control through PC or tablet |
|  | Data interface RS-232: For connection to printers, PCs or other peripheral devices for data transfer over longer distances. Network in bus topology possible |
|  | Data Interface USB: For connection to printers, PCs or other peripheral devices |
|  | Data interface Bluetooth: For connection to printers, PCs or other peripheral devices |
|  | Data interface WiFi: For data transfer to printers, PCs or other peripheral devices |
|  | Network interface: For connecting the measuring device to an Ethernet network |
|  | Rechargeable battery pack: Rechargeable set |
|  | Accredited calibration (DKD): The duration of the accredited calibration is 3 working days |

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