# Counting scale KERN CDS





## Easy to use industrial counting scale for heavy loads, counting resolution up to 300,000 points

### Features

- **Self-explanatory graphic control panel**, the workings steps can be understood immediately, even without operating instructions
  - no learning time = reduces costs
  - ideal for untrained users
  - visualised process avoids operating errors
- The 4 steps are carried out from left to right:
  [1] Place the empty container onto the weighing plate and tare by pressing the TARE key
  [2] Place the reference quantity for the goods to be counted into the container (5, 10 or 20 pieces)
  [3] Confirm the selected reference quantity by pressing the key (5, 10 or 20)
  [4] Pour in the goods to be counted. The number of pieces will immediately be shown in the display
- **Precise counting:** The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- **Protective working cover** included with delivery

### Technical data

- Backlit LCD display, digit height 18 mm
- Dimensions weighing surface, stainless steel
  [A] W×D 228×228 mm
  [B] W×D 308×318 mm
  [C] W×D 450×350 mm
- Dimensions of display device W×D×H 225×115×60 mm
- Permissible ambient temperature 10 °C/40 °C

### Accessories

- **Protective working cover** over the display device, scope of delivery: 5 items, KERN DE-A12S05
- **Mount to fasten the display device** to the platform, KERN DE-A11N
- [5] **Stand** to elevate display device, height of stand approx. 480 mm, KERN DE-A10
- **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
- **Set for underfloor weighing**, consists of platform, bow, hook, only for models with weighing plate [B], KERN DS-A01
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

CAL EXT | RS 232 | PCS | MULTI [B] | DMS | 1 DAY

OPTION

UNDER [B] | ACCU | DAkkS +3 DAYS

| Model | Weighing range [Max] | Readout [d] | Smallest part weight [Normal] | Counting resolution | Net weight approx. | Cable length approx. | Weighing plate | | Options |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | DAkkS Calibr. Certificate |
| **KERN** | kg | g | g/piece | Points | kg | m | | | DKD KERN |
| **CDS 4K0.02** | 4 | 0,02 | 0,2 | 200.000 | 6 | 2 | A | | 963-127 |
| **CDS 15K0.05** | 15 | 0,05 | 0,5 | 300.000 | 8 | 2 | B | | 963-128 |
| **CDS 16K0.1** | 16 | 0,1 | 1 | 160.000 | 8 | 2 | B | | 963-128 |
| **CDS 30K0.1** | 30 | 0,1 | 1 | 300.000 | 8 | 2 | B | | 963-128 |
| **CDS 30K0.1L** | 30 | 0,1 | 1 | 300.000 | 10 | 0,6 | C | | 963-128 |
| **CDS 36K0.2L** | 36 | 0,2 | 2 | 180.000 | 10 | 0,6 | C | | 963-128 |
| **CDS 60K0.2** | 60 | 0,2 | 2 | 300.000 | 10 | 0,6 | C | | 963-129 |

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# KERN Pictograms

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

**Adjusting program CAL:** For quick setting up of the balance's accuracy. External adjusting weight required
CAL EXT

**Memory:** Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.
MEMORY

**Alibi memory:** Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.
ALIBI

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

**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
RS 485

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

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

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

**Control outputs (optocoupler, digital I/O):** To connect relays, signal lamps, valves, etc.
SWITCH

**Interface for second balance:** For direct connection of a second balance
DUAL

**Network interface:** For connecting the scale to an Ethernet network
LAN

**Wireless data transfer:** between the weighing unit and the evaluation unit using an integrated radio module
RC

**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
KCP PROTOCOL

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

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

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

**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 A

**Recipe level B:** Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display
RECIPE B

**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
RECIPE C

**Totalising level A:** The weights of similar items can be added together and the total can be printed out
SUM A

**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
UNIT

**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
TOL

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

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

**Stainless steel:** The balance is protected against corrosion
INOX

**Suspended weighing:** Load support with hook on the underside of the balance
UNDER

**Battery operation:** Ready for battery operation. The battery type is specified for each device
BATT

**Rechargeable battery pack:** Rechargeable set
ACCU

**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
MULTI

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

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

**Weighing principle: Strain gauges** Electrical resistor on an elastic deforming body
DMS

**Weighing principle: Tuning fork** A resonating body is electromagnetically excited, causing it to oscillate
T-FORK

**Weighing principle: Electromagnetic force compensation** Coil inside a permanent magnet. For the most accurate weighings
FORCE

**Weighing principle: Single cell technology** Advanced version of the force compensation principle with the highest level of precision
SC TECH

**Verification possible:** The time required for verification is specified in the pictogram
M +3 DAYS

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

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

**Pallet shipment:** The time required for internal shipping preparations is shown in days in the pictogram
2 DAYS

# 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: