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
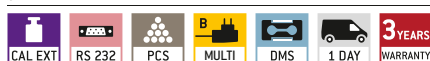
Technical data

- Backlit LCD display, digit height 18 mm
- Dimensions weighing surface, stainless steel
  - Ⓐ W×D 228×228 mm
  - Ⓑ W×D 308×318 mm
  - Ⓒ 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, standard, can be re-ordered, scope of delivery: 5 items, KERN DE-A12S05
- **Wall mount** for display device, KERN DS-A02
- **Mount to fasten the display device** to the platform, can be retrofitted, KERN DE-A11N

- ⑤ **Stand** to elevate display device, height of stand approx. 480 mm, can be retrofitted, 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 Ⓑ, KERN DS-A01
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

| CAL EXT | RS 232 | PCS | MULTI | DMS | 1 DAY | 3 YEARS WARRANTY |

OPTION

| UNDER ⒷB | ACCU | DAkkS +3 DAYS |

Model	Weighing range [Max]	Readout [d]	Smallest part weight [counting]	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	0,02	200.000	6	1	Ⓐ		963-127
CDS 15K0.05	15	0,05	0,05	300.000	8	2	Ⓑ		963-128
CDS 16K0.1	16	0,1	0,1	160.000	8	2	Ⓑ		963-128
CDS 30K0.1	30	0,1	0,1	300.000	8	2	Ⓑ		963-128
CDS 30K0.1L	30	0,1	0,1	300.000	10	0,6	Ⓒ		963-128
CDS 36K0.2L	36	0,2	0,2	180.000	10	0,6	Ⓒ		963-128
CDS 60K0.2	60	0,2	0,2	300.000	10	0,6	Ⓒ		963-129

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: 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. High tolerance against electromagnetic disturbance.
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. With KERN products you can use a universal RS-232/LAN converter.
LAN

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

GLP/ISO log: The balance displays the 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: Separate memory for the weight of the tare container and the recipe ingredients (net total).
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. non-metric units at the touch of a key. See balance model. Please refer to KERN's website for more details.
UNIT

Weighing with tolerance range: Upper and lower limiting values can be programmed individually for e.g. dosing, sorting and portioning.
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

ATEX explosion protection: Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device.
ATEX

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 gauge 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

Warranty: The warranty period is shown in the pictogram.
3 YEARS WARRANTY

KERN – Precision is our business

Your KERN specialist dealer:

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