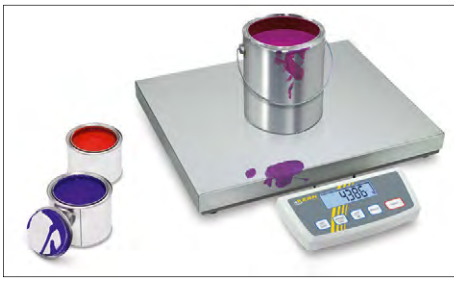
# Parcel scale KERN DE-D


## The long lasting story of success with dust and spray protected display device

**Piece counting**

**Animal weighing**



**Recipe weighing**

***Features***

- **High mobility:** Battery or rechargeable battery (optional) operation, compact and flat construction and low weight make this scale ideal for use in several locations (production, warehouse, dispatch department etc.)
- **Flexible positioning of display device:** e.g. free-standing or mounted to the wall (optional)
- 1 **Display device IP65.** Protected against dust and spray (only when using battery or rechargeable battery pack)
- **Stainless steel weighing plate**, painted steel base
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- With the **recipe function** you can weigh the different ingredients of a mixture. As a check, you can also call up the total weight of all the ingredients
- **Freely programmable weighing unit**, e.g. display direct in special units such as length of thread g/m, paper weight g/m$^2$, or similar

# Parcel scale KERN DE-D


A


E


2

### *Technical data*

- Large backlit LCD display, digit height 25 mm
- Weighing plate dimensions, stainless steel, WxDxH
  - A 318x308x75 mm
  - B 318x308x85 mm
  - C 522x406x58 mm
  - D 523x405x85 mm, see enlarged picture
  - E 650x500x95 mm
- Dimensions of display device WxDxH 225x110x55 mm
- Optional battery operation, 9 V block, not included
- Permissible ambient temperature 5 °C / 35 °C

### *Accessories*

- **Protective working cover** over the display device, standard. Can be re-ordered, scope of delivery: 5 items, KERN DE-A12S05
- **Rechargeable battery pack internal**, operating time up to 15 h, charging time approx. 10 h, can be retrofitted, KERN NDE-A02
- **Mount** to fasten the display device to the platform, can be retrofitted, KERN DE-A11N
- **Wall mount** for display device, can be retrofitted, KERN DE-A13
- 2 **Stand** to elevate display device, height of stand approx. 480 mm, can be retrofitted, KERN DE-A10
- **Individual header data:** the free software KERN SHM-01 can be used to set up 4 header lines on the printout for printers YKN-01 and YKB-01N
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD

1

OPTION


| Model<br>KERN | Weighing range [Max]<br>kg | Readout [d]<br>g | Reproducibility<br>g | Linearity<br>g | Min. piece weight [Counting]<br>g/piece | Cable length approx.<br>m | Net weight approx.<br>kg | Weighing plate | | Option DAkkS Calibr. Certificate<br>DKD KERN | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d]. | | | | | | | | | | | |
| **DE 6K1D** | 3 \| 6 | 1 \| 2 | 1 \| 2 | ± 3 \| ± 6 | 4 | 1,4 | 4 | A | | 963-128 | |
| **DE 15K2D** | 6 \| 15 | 2 \| 5 | 2 \| 5 | ± 6 \| ± 15 | 10 | 1,4 | 4 | A | | 963-128 | |
| **DE 35K5D** | 15 \| 35 | 5 \| 10 | 5 \| 10 | ± 15 \| ± 30 | 10 | 1,4 | 4 | A | | 963-128 | |
| **DE 35K5DL** | 15 \| 35 | 5 \| 10 | 5 \| 10 | ± 15 \| ± 30 | 10 | 1,4 | 16 | D | | 963-128 | |
| **DE 60K10D** | 30 \| 60 | 10 \| 20 | 10 \| 20 | ± 30 \| ± 60 | 20 | 1,4 | 4 | A | | 963-129 | |
| **DE 60K10DL** | 30 \| 60 | 10 \| 20 | 10 \| 20 | ± 30 \| ± 60 | 20 | 1,4 | 16 | D | | 963-129 | |
| **DE 150K20D** | 60 \| 150 | 20 \| 50 | 20 \| 50 | ± 60 \| ± 150 | 40 | 1,4 | 4 | A | | 963-129 | |
| **DE 150K20DL** | 60 \| 150 | 20 \| 50 | 20 \| 50 | ± 60 \| ± 150 | 40 | 1,4 | 16 | D | | 963-129 | |
| **DE 150K20DXL** | 60 \| 150 | 20 \| 50 | 20 \| 50 | ± 60 \| ± 150 | 40 | 1,4 | 28 | E | | 963-129 | |
| **DE 300K50D** | 150 \| 300 | 50 \| 100 | 50 \| 100 | ± 150 \| ± 300 | 200 | 1,4 | 16 | D | | 963-129 | |
| **DE 300K50DL** | 150 \| 300 | 50 \| 100 | 50 \| 100 | ± 150 \| ± 300 | 200 | 1,4 | 28 | E | | 963-129 | |
| | | | | | | | | | | | |
| **DE 6K0.5A** | 6 | 0,5 | 0,5 | ± 1,5 | 1 | 1,4 | 4 | A | | 963-128 | |
| **DE 12K1A** | 12 | 1 | 1 | ± 3 | 2 | 1,4 | 4 | A | | 963-128 | |
| **DE 24K2A** | 24 | 2 | 2 | ± 6 | 4 | 1,4 | 4 | A | | 963-128 | |
| **DE 60K5A** | 60 | 5 | 5 | ± 15 | 10 | 1,4 | 4 | A | | 963-129 | |
| **DE 120K10A** | 120 | 10 | 10 | ± 30 | 20 | 1,4 | 4 | A | | 963-129 | |
| Dual-range balance with high-resolution display | | | | | | | | | | | |
| **DE 15K0.2D** | 6 \| 15 | 0,2 \| 0,5 | 0,2 \| 0,5 | ± 0,8 \| ± 2 | 0,4 | 1 | 4 | B | | 963-128 | |
| **DE 35K0.5D** | 15 \| 35 | 0,5 \| 1 | 0,5 \| 1 | ± 2 \| ± 4 | 1 | 1 | 4 | B | | 963-128 | |
| **DE 60K1D** | 30 \| 60 | 1 \| 2 | 1 \| 2 | ± 4 \| ± 8 | 2 | 1 | 4 | B | | 963-129 | |
| **DE 60K1DL** | 30 \| 60 | 1 \| 2 | 1 \| 2 | ± 4 \| ± 8 | 2 | 1,4 | 16 | C | | 963-129 | |
| **DE 150K2D** | 60 \| 150 | 2 \| 5 | 2 \| 5 | ± 8 \| ± 20 | 4 | 1 | 4 | B | | 963-129 | |
| **DE 150K2DL** | 60 \| 150 | 2 \| 5 | 2 \| 5 | ± 8 \| ± 20 | 4 | 1,4 | 16 | C | | 963-129 | |
| **DE 300K5DL** | 150 \| 300 | 5 \| 10 | 5 \| 10 | ± 20 \| ± 40 | 10 | 1,4 | 16 | 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:** Electronic archiving of weighing results, complying with the 2009/23/EC 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. High tolerance against electromagnetic disturbance.

**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.

**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.

**Network interface:** For connecting the scale to an Ethernet network. With KERN products you can use a universal RS-232/LAN converter.

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

**GLP/ISO log:** The balance displays the weight, date and time, regardless of a printer connection.

**GLP/ISO log:** 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:** Separate memory for the weight of the tare container and the recipe ingredients (net total).

**Recipe level B:** Internal memory for complete recipes with name and target value 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, adjustment of recipe when dosages are exceeded, multiplier function, barcode.

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

**Totalising level C:** Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, adjustment of recipe when dosages are exceeded, multiplier function, barcode recognition.

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

**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.

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

**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.

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

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

**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 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

**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.

**Weighing principle: Strain gauge** 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.

**Verification possible:** The time required for verification is specified in the pictogram.

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

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

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

**Warranty:** The warranty period is shown in the pictogram.

# 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 - 2000 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
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DAkkS calibration certificates in the following languages D, GB, F, I, E, NL, PL

# Your KERN specialist dealer: