

# KERN DS 30K0.1L



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



## Category

|                  |                  |
|------------------|------------------|
| Brand            | KERN             |
| Product category | Industrial scale |
| Product group    | Platform scale   |
| Product family   | DS               |

## Measuring System

|                                |                                |
|--------------------------------|--------------------------------|
| Weighing system                | Strain gauge                   |
| Weighing capacity [Max]        | 30 kg                          |
| Readability [d]                | 0,0001 kg                      |
| Reproducibility                | 0,0002 kg                      |
| Linearity                      | ± 0,0003 kg                    |
| Resolution                     | 300.000                        |
| Adjustment options             | Adjusting with external weight |
| Recommended adjusting weight   | 30 kg (F1)                     |
| Possible calibration points    | 10 kg; 20 kg; 30 kg            |
| Stabilization time             | 3 s                            |
| Warm-up time                   | 120 min                        |
| Eccentric loading at 1/3 [Max] | 0,0005 kg                      |
| Construction type of the scale | Single-range balance           |

|       |                     |
|-------|---------------------|
| Units | kg                  |
|       | g                   |
|       | dwt                 |
|       | tl (Tw)             |
|       | tl (HK)             |
|       | ozt                 |
|       | tl (Singap, Malays) |
|       | ct                  |
|       | mo                  |
|       | lb                  |
|       | oz                  |
|       | ffa                 |

|                            |     |
|----------------------------|-----|
| Maximum creep (15 minutes) | 1 g |
| Maximum creep (30 minutes) | 2 g |
| Default unit               | kg  |

## Display

|                                 |                            |
|---------------------------------|----------------------------|
| Display type                    | LCD                        |
| Display backlight               | ✓                          |
| Display screen size             | 89×30 mm                   |
| Display digit height            | 21 mm                      |
| Languages of the user interface | English<br>Symbol language |

## Construction

|                                      |                  |
|--------------------------------------|------------------|
| Dimension housing (W×D×H)            | 225×115×60 mm    |
| Dimension display device (W×D×H)     | 225×115×60 mm    |
| Dimensions weighing surface (W×D)    | 500×400 mm       |
| Dimensions weighing surface          | 500×400 mm       |
| Dimensions weighing platform (W×D×H) | 500×400×127 mm   |
| Material housing                     | plastic          |
| Material weighing plate              | stainless steel  |
| Material platform                    | metal, lacquered |
| Material display housing             | plastic          |
| Material load cell(s)                | aluminium        |
| Levelling feet adjustable            | ✓                |
| Wall mount                           | ✓                |
| Display device cable length          | 2,5 m            |

## Functions

|                                                                   |                                         |
|-------------------------------------------------------------------|-----------------------------------------|
| PreTare function                                                  | ✓                                       |
| Sum memory function                                               | ✓                                       |
| Percentage determination                                          | ✓                                       |
| Tolerance weighing                                                | ✓                                       |
| Tolerance weighing - type of signal                               | acoustically<br>visual                  |
| Function for averaging under unstable weighing conditions         | ✓                                       |
| Counting function                                                 | ✓                                       |
| Counting resolution (laboratory conditions)                       | 150.000                                 |
| Counting reference weight can be entered                          | ✓                                       |
| Smallest piece weight when piece counting - laboratory conditions | 200 mg                                  |
| Smallest piece weight when piece counting - normal conditions     | 2 g                                     |
| Reference quantity                                                | 5, 10, 20, 50, n (any number of pieces) |
| Auto-off interval(s) in battery mode/rechargeable battery mode    | 5 min                                   |
|                                                                   | 2 min                                   |
|                                                                   | 1 min                                   |
|                                                                   | 30 min                                  |

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|                                          |                  |
|------------------------------------------|------------------|
|                                          | 60 min<br>30 sec |
| Auto-off interval(s) in mains power mode | off              |
| Tare function                            | manual (multi)   |
| Number of keys for operation             | 5                |

## Interface

|                           |                                                                                                                                                            |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Interfaces                | RS-232 (optional)<br>Ethernet (optional)<br>analogue (4 - 20 mA) (optional)<br>Bluetooth BLE (v4.0) (optional)<br>USB-Device (optional)<br>WiFi (optional) |
| compatible with EasyTouch | ✓                                                                                                                                                          |

## Power Supply

|                                                                           |                                                                         |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Supplied power supply                                                     | Power supply unit                                                       |
| Power supply type                                                         | Power adapter                                                           |
| Plug-in power supply / adapter for countries - included with the delivery | EURO<br>UK<br>US<br>CH                                                  |
| Plug-in power supply / adapter for countries - optional                   | EURO<br>UK<br>US<br>CH                                                  |
| Input voltage power supply / power [Max]                                  | 100 V - 240 V AC, 50 / 60 Hz                                            |
| Power supply cable removable                                              | removable                                                               |
| Input voltage device / power [Max]                                        | 5,9V, 1A                                                                |
| Power socket for mains adapter                                            | Hollow plug, inside plus, Ø outside 5,5 mm, Ø inside 2,1 mm, long 13 mm |
| Rechargeable battery operating time - backlight on                        | 24 h                                                                    |
| Rechargeable battery operating time - backlight off                       | 48 h                                                                    |
| Rechargeable battery charging time                                        | 8 h                                                                     |
| Rechargeable battery optional                                             | Rchrg. battery optional - intern                                        |

## Environmental conditions

|                               |        |
|-------------------------------|--------|
| Ambient temperature [Min]     | -10 °C |
| Ambient temperature [Max]     | 40 °C  |
| Humidity of environment [Max] | 80 %   |

## Approval

|         |   |
|---------|---|
| CE mark | ✓ |
|---------|---|

## Services (optional)

|                                              |         |
|----------------------------------------------|---------|
| Article number for DAkkS calibration         | 963-128 |
| Article number for certificate of conformity | 969-517 |

## Packing & Shipping

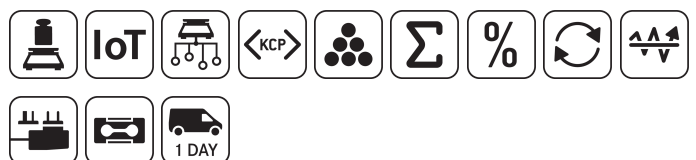
|                              |                |
|------------------------------|----------------|
| Delivery time                | 1 d            |
| Dimensions packaging (W×D×H) | 600×510×230 mm |
| Shipping method              | Parcel service |
| Net weight approx.           | 19 kg          |
| Gross weight approx.         | 22 kg          |
| Shipping weight              | 20,5 kg        |

## Product information

|                      |                          |
|----------------------|--------------------------|
| GTIN/EAN number      | 4045761491687            |
| REACH classification | no prohibited substances |

## Pictograms

### STANDARD



### OPTION

