

# KERN DS 30K0.1

**KERN**

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               | ± 0,0005 kg  |
| Resolution              | 300.000      |

|                    |                                |
|--------------------|--------------------------------|
| Adjustment options | Adjusting with external weight |
|--------------------|--------------------------------|

|                              |            |
|------------------------------|------------|
| Recommended adjusting weight | 30 kg (E2) |
|------------------------------|------------|

|                             |                            |
|-----------------------------|----------------------------|
| Possible calibration points | 10 kg; 15 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)    | 308×318 mm       |
| Dimensions weighing surface          | 308×318 mm       |
| Dimensions weighing platform (W×D×H) | 308×318×75 mm    |
| Material housing                     | plastic          |
| Material weighing plate              | stainless steel  |
| Material platform                    | metal, lacquered |
| Material display housing             | plastic          |
| Level indicator                      | ✓                |
| Stand height                         | 450 mm           |
| 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)                       | 300.000                                 |
| Counting reference weight can be entered                          | ✓                                       |
| Smallest piece weight when piece counting - laboratory conditions | 100 mg                                  |
| Smallest piece weight when piece counting - normal conditions     | 1 g                                     |
| Reference quantity                                                | 5, 10, 20, 50, n (any number of pieces) |

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|                                                                |        |
|----------------------------------------------------------------|--------|
| Auto-off interval(s) in battery mode/rechargeable battery mode | 5 min  |
|                                                                | 2 min  |
|                                                                | 1 min  |
|                                                                | 30 min |
|                                                                | 60 min |
|                                                                | 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)               |
|            | Ethernet (optional)             |
|            | Bluetooth BLE (v4.0) (optional) |
|            | USB-Device (optional)           |
|            | KUP                             |
|            | 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 |
|                                                                           | UK   |
|                                                                           | US   |
|                                                                           | CH   |

|                                                         |      |
|---------------------------------------------------------|------|
| Plug-in power supply / adapter for countries - optional | EURO |
|                                                         | UK   |
|                                                         | US   |
|                                                         | 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) | 510×380×140 mm |
|------------------------------|----------------|

|                 |                |
|-----------------|----------------|
| Shipping method | Parcel service |
|-----------------|----------------|

|                    |      |
|--------------------|------|
| Net weight approx. | 8 kg |
|--------------------|------|

|                      |      |
|----------------------|------|
| Gross weight approx. | 9 kg |
|----------------------|------|

|                 |        |
|-----------------|--------|
| Shipping weight | 8,6 kg |
|-----------------|--------|

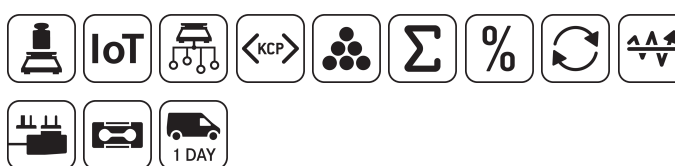
## Product information

|                 |               |
|-----------------|---------------|
| GTIN/EAN number | 4045761357068 |
|-----------------|---------------|

|                      |                          |
|----------------------|--------------------------|
| REACH classification | no prohibited substances |
|----------------------|--------------------------|

## Pictograms

### STANDARD



### OPTION

