

# KERN PES 31000-1M

# KERN

Robust laboratory and industrial precision scale for heavy items



## Construction

|                                   |                 |
|-----------------------------------|-----------------|
| Dimension housing (W×D×H)         | 260×330×113 mm  |
| Dimensions weighing surface (W×D) | 250×220 mm      |
| Material housing                  | cast aluminium  |
| Material weighing plate           | stainless steel |
| Material platform                 | Stainless steel |
| Levelling feet adjustable         | ✓               |

## Functions

|  |   |
|--|---|
| Number of keys for operation                                   | 6   |
| Auto-off interval(s) in battery mode/rechargeable battery mode | 3 min   |
| Capacity display   | ✓   |
| Tare function  | manual (multi)                                  |
| Percentage determination                                       | ✓   |
| Counting function  | ✓   |
| Tolerance weighing   | ✓   |
| Tolerance weighing - type of signal                            | visual  |
| Standby function   | ✓   |
| Sum memory function  | ✓   |
| Underfloor weighing  | None  |
| Interfaces   | RS-232 standard Digital I/O (optional, factory) |

## Counting

|   |                |
|---|----------------|
| Smallest piece weight when piece counting - laboratory conditions | 500 mg         |
| Smallest piece weight when piece counting - normal conditions     | 5 g            |
| Reference quantity  | 5, 10, 30, 100 |
| Counting resolution (laboratory conditions)                       | 62.000         |

## Power Supply

|   |                         |
|---|-------------------------|
| Input voltage power supply / power [Max]                                  | 220 V - 240 V AC, 50 Hz |
| Input voltage device / power [Max]  | 12 V, 1 A               |
| Plug-in power supply type   | Power adapter           |
| Supplied plug-in power supply   | Power supply unit       |
| Plug-in power supply / adapter for countries - included with the delivery | EURO CH                 |
| Plug-in power supply / adapter for countries - optional                   | EURO UK US CH           |
| Rechargeable battery optional   | Rchrg. battery optional |
| Rechargeable battery  | PES-A01                 |

## Category

|                  |                     |
|------------------|---------------------|
| Brand            | KERN                |
| Product category | Laboratory balances |
| Product group    | Precision balances  |

## Measuring System

|  |                                |
|--|--------------------------------|
| Readability [d]                                | 0,1 g                          |
| Weighing capacity [Max]                        | 31000 g                        |
| Eccentric loading at 1/3 [Max]                 | 0,3 g                          |
| USP Minimum weight of sample (k = 2, U = 0.1%) | 200 g                          |
| Reproducibility                                | 0,1 g                          |
| Linearity                                      | ± 0,4 g                        |
| Weighing system                                | Tuning fork                    |
| Resolution                                     | 310.000                        |
| Units  | kg g ct                        |
| Default unit                                   | kg                             |
| Stabilization time                             | 3 s                            |
| Warm-up time                                   | 120 min                        |
| Adjustment options                             | Adjusting with external weight |
| Recommended adjusting weight                   | 20 kg (F1); 10 kg (F1)         |

## Approval

|                 |    |
|-----------------|----|
| CE mark         | ✓  |
| Accuracy classe | II |

## Display

|                                 |         |
|---------------------------------|---------|
| Display digit height            | 13 mm   |
| Display backlight               | no      |
| Languages of the user interface | English |

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|   |      |
|---|------|
| Rechargeable battery charging time                  | 15 h |
| Rechargeable battery operating time - backlight on  | 6 h  |
| Rechargeable battery operating time - backlight off | 32 h |

## Environmental conditions

|                               |       |
|-------------------------------|-------|
| Humidity of environment [Max] | 80 %  |
| Ambient temperature [Min]     | 10 °C |
| Ambient temperature [Max]     | 30 °C |

## Packing & Shipping

|                              |                |
|------------------------------|----------------|
| Readability force [d] (N)    | 1 d            |
| Shipping method              | Parcel service |
| Dimensions packaging (W×D×H) | 410×520×190 mm |
| Net weight approx.           | 10 kg          |
| Gross weight approx.         | 12 kg          |

## Services (optional)

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

## Piktogramme

### STANDARD



### OPTION



### FACTORY

