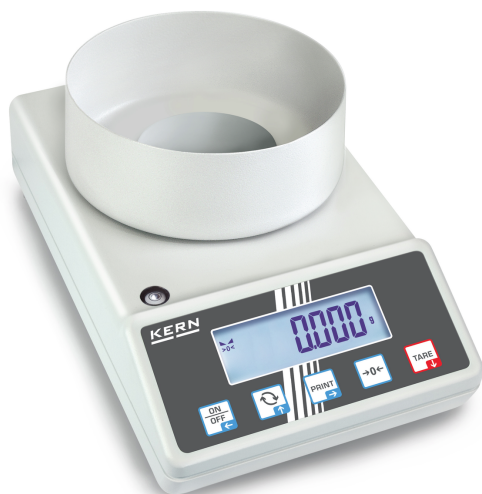


# KERN 572-31

**KERN**

All-rounder, e.g. as precision balance in the laboratory or in harsh industrial applications, ideal for the diverse possibilities of Industry 4.0 applications



tl (Singap, Malays)  
ct  
mo  
lb  
oz  
ffa

## Category

|                  |                    |
|------------------|--------------------|
| Brand            | KERN               |
| Product category | Laboratory balance |
| Product group    | Precision balance  |
| Product family   | 572                |

## Measuring System

|  |                                |
|--|--------------------------------|
| Construction type of the scale                 | Single-range balance           |
| Weighing system                                | Strain gauge                   |
| Weighing capacity [Max]                        | 300 g                          |
| Readability [d]                                | 0,001 g                        |
| Reproducibility                                | 0,002 g                        |
| Linearity                                      | ± 0,005 g                      |
| USP Minimum weight of sample (k = 2, U = 0.1%) | 4 g                            |
| Resolution                                     | 300.000                        |
| Adjustment options                             | Adjusting with external weight |
| Recommended adjusting weight                   | 300 g (F1)                     |
| Possible calibration points                    | 50 g; 100 g; 200 g; 300 g      |
| Stabilization time                             | 3 s                            |
| Warm-up time                                   | 120 min                        |
| Eccentric loading at 1/3 [Max]                 | 0,005 g                        |
| Maximum creep (15 minutes)                     | 10 mg                          |
| Maximum creep (30 minutes)                     | 20 mg                          |
| Default unit                                   | g                              |

Units

g  
gn  
dwt  
tl (Tw)  
tl (HK)  
ozt

## Display

|                                 |                            |
|---------------------------------|----------------------------|
| Display type                    | LCD                        |
| Display type                    | 7 segment LED              |
| Display backlight               | ✓                          |
| Display screen size             | 89×30 mm                   |
| Display segments                | 7                          |
| Display digit height            | 21 mm                      |
| Languages of the user interface | English<br>Symbol language |

## Construction

|   |                  |
|---|------------------|
| Dimension housing (W×D×H)                           | 180×310×85 mm    |
| Dimensions completely mounted (W×D×H)               | 180×310×130 mm   |
| Dimensions ring-shaped draught shield - inner (Ø×H) | 157×43 mm        |
| Dimensions weighing surface (Ø)                     | 106 mm           |
| Dimensions weighing surface                         | 106 mm           |
| Material housing                                    | cast aluminium   |
| Material weighing plate                             | stainless steel  |
| Material platform                                   | stainless steel  |
| Material draught shield                             | metal, lacquered |
| Level indicator                                     | ✓                |
| Levelling feet adjustable                           | ✓                |

## Functions

|   |                            |
|---|----------------------------|
| PreTare function  | ✓                          |
| Recipe/summing level  | Rez A (Net total)          |
| Percentage determination  | ✓                          |
| Tolerance weighing  | ✓                          |
| Tolerance weighing - type of signal                               | acoustically<br>visual     |
| Underfloor weighing   | Eye (included in delivery) |
| 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 | 1 mg                       |

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|  |                            |
|--|----------------------------|
| Smallest piece weight when piece counting - normal conditions  | 10 mg                      |
| Reference quantity   | 5, 10, 20, 50, free, Input |
|  | 5 min                      |
|  | 2 min                      |
| Auto-off interval(s) in battery mode/rechargeable battery mode | 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)<br>Bluetooth (optional)<br>Ethernet (optional)<br>USB-Device (optional)<br>KUP<br>WiFi (optional) |
| compatible with EasyTouch | ✓   |

## Power Supply

|   |                                   |
|---|-----------------------------------|
| Supplied power supply   | Power supply unit                 |
| Plug-in 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      |
| Input voltage device / power [Max]  | 5,9V, 1A                          |
| Battery / accumulator type  | Li-Ion                            |
| 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 (factory) |

## Environmental conditions

|                           |        |
|---------------------------|--------|
| Ambient temperature [Min] | -10 °C |
| Ambient temperature [Max] | 40 °C  |

|                               |        |
|-------------------------------|--------|
| Humidity of environment [Max] | 80 %   |
| Storage temperature [Min]     | -20 °C |
| Storage temperature [Max]     | 60 °C  |

## Approval

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

## Services (optional)

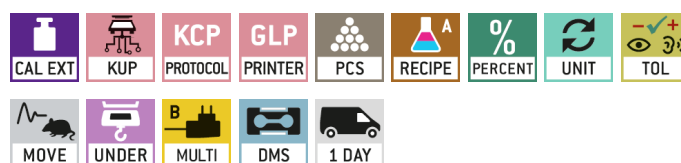
|  |         |
|--|---------|
| Article number for DAkkS calibration         | 963-127 |
| Article number for certificate of conformity | 969-517 |

## Packing & Shipping

|                              |                |
|------------------------------|----------------|
| Delivery time                | 1 d            |
| Dimensions packaging (W×D×H) | 400×340×220 mm |
| Shipping method              | Parcel service |
| Net weight approx.           | 2,4 kg         |
| Gross weight approx.         | 3,4 kg         |
| Shipping weight              | 6 kg           |

## Pictograms

### STANDARD



### OPTION



### FACTORY

