# KERN **PBJ 1000-3**

Multifunctional laboratory balance with single-cell weighing system



**Date of creation: 25.10.2026**

## Category

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

## Measuring System

| | |
|---|---|
| Weighing system | Single-Cell |
| Weighing capacity [Max] | 1020 g |
| Readability [d] | 0,001 g |
| Automatic adjustment - Standard temperature deviation | 1 °C |
| Automatic adjustment - Standard time interval | 4 h |
| Reproducibility | 0,001 g |
| Linearity | ± 0,003 g |
| Resolution | 1.020.000 |
| Adjustment options | Internal calibration (automatic) |
| Stabilization time | 2,5 s |
| Eccentric loading at 1/3 [Max] | 0,005 g |
| Construction type of the scale | Single-range balance |
| Units | kg<br>g<br>mg<br>t<br>gn<br>dwt<br>tl (Tw)<br>tl (HK)<br>ozt<br>tl (Singap, Malays)<br>ct<br>lb<br>oz<br>tl (Cn)<br>PCS<br>%<br>D<br>mom |
| Maximum creep (15 minutes) | 10 mg |
| Maximum creep (30 minutes) | 20 mg |
| Default unit | g |
| Warm-up time | 4 h |

## Display

| | |
|---|---|
| Display type | LCD |
| Display backlight | ✓ |
| Display digit height - smallest digit | 14 mm |
| Display digit height | 14 mm |
| Languages of the user interface | English |

## Construction

| | |
|---|---|
| Dimension housing (W×D×H) | 191×317×79 mm |
| Dimensions completely mounted (W×D×H) | 202×317×166 mm |
| Dimensions rectangular draught shield - inner (W×D×H) | 180×193×87 mm |
| Dimensions rectangular draught shield - outer (W×D×H) | 202×228×103 mm |
| Dimensions weighing surface (W×D) | 113×110 mm |
| Dimensions weighing surface | 113×110 mm |
| Dimensions weighing platform (W×D×H) | 113×110×5 mm |
| Material housing | cast aluminium |
| Material weighing plate | stainless steel |
| Material draught shield | plastic |
| Material display housing | plastic |
| Material load cell(s) | aluminium |
| Level indicator | ✓ |
| Levelling feet adjustable | ✓ |
| Transport safety lock - bolt torque | 0,5 Nm |
| Cable length | 1,5 m |
| Load cells - number | 1 |

## Functions

| | |
|---|---|
| Density determination | ✓ |

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| | |
|---|---|
| Dispensing function | ✓ |
| Hold function | ✓ |
| Peak function | ✓ |
| PreTare function | ✓ |
| Percentage determination | ✓ |
| Standby function | ✓ |
| Sum memory function | ✓ |
| Function for averaging under unstable weighing conditions | ✓ |
| Tolerance weighing | ✓ |
| Time display | ✓ |
| Counting function | ✓ |
| Capacity - Display | ✓ |
| Tare function | manual (multi) |
| Underfloor weighing | Hook (included in delivery) |
| Counting resolution (laboratory conditions) | 1.020.000 |
| Smallest piece weight when piece counting - laboratory conditions | 1 mg |
| Reference quantity | 5, 10, 20, 50,100, 200 |
| Recipe/summing level | Rez A (Net total) |
| Number of keys for operation | 6 |
| Smallest piece weight when piece counting - normal conditions | 10 mg |
| Tolerance weighing - type of signal | visual |

## Interface

| | |
|---|---|
| Interfaces | RS-232 standard - 2x |

## 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>CH |
| Plug-in power supply / adapter for countries - optional | EURO<br>AUS<br>UK<br>US<br>CH |
| Input voltage power supply / power [Max] | 100 V - 240 V, 50 / 60 Hz |
| Power supply cable removable | removable |
| Input voltage device / power [Max] | 12 V DC, 150 0mA |
| Power socket for mains adapter | Hollow plug, inside minus, Ø outside 5,5 mm, Ø inside 2,1 mm, long 9,5 mm |

## Environmental conditions

| | |
|---|---|
| Ambient temperature [Min] | 5 °C |
| Ambient temperature [Max] | 40 °C |
| Humity of environment [Min] | 30 % |
| Humity of environment [Max] | 85 % |
| Storage temperature [Min] | -10 °C |
| Storage temperature [Max] | 50 °C |

## 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) | 585×370×260 mm |
| Shipping method | Parcel service |
| Net weight approx. | 3,6 kg |
| Gross weight approx. | 6 kg |
| Shipping weight | 11,3 kg |
| Shipping volume weight | 11,3 kg |

## Product information

| | |
|---|---|
| GTIN/EAN number | 4045761492776 |
| Trade number | 90160010 |
| Warranty Time | 36 mon |

## Pictograms

### STANDARD




### OPTION

