

# KERN PBS 1000-3

Multifunctional laboratory balance with single-cell weighing system



## Category

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

## Measuring System

|  |                                |
|--|--------------------------------|
| Weighing system                                | Single-Cell                    |
| Weighing capacity [Max]                        | 1020 g                         |
| Readability [d]                                | 0,001 g                        |
| Reproducibility                                | 0,001 g                        |
| Linearity                                      | ± 0,002 g                      |
| Resolution                                     | 1.020.000                      |
| Adjustment options                             | Adjusting with external weight |
| Recommended adjusting weight                   | 1 kg (E2)                      |
| Possible calibration points                    | 1 kg                           |
| Stabilization time                             | 2,5 s                          |
| Warm-up time                                   | 4 h                            |
| Eccentric loading at 1/3 [Max]                 | 0,005 g                        |
| USP Minimum weight of sample (k = 2, U = 0.1%) | 2 g                            |
| Construction type of the scale                 | Single-range balance           |

|       |                     |
|-------|---------------------|
| Units | kg                  |
|       | g                   |
|       | mg                  |
|       | t                   |
|       | gn                  |
|       | dwt                 |
|       | tl (Tw)             |
|       | tl (HK)             |
|       | ozt                 |
|       | tl (Singap, Malays) |
| ct    |                     |

|                            |         |
|----------------------------|---------|
|                            | lb      |
|                            | oz      |
|                            | tl (Cn) |
|                            | PCS     |
|                            | %       |
|                            | D       |
|                            | mom     |
| Maximum creep (15 minutes) | 10 mg   |
| Maximum creep (30 minutes) | 20 mg   |
| Default unit               | g       |

## Display

|                                 |         |
|---------------------------------|---------|
| Display type                    | LCD     |
| Display backlight               | ✓       |
| 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                   | 6 Nm            |
| Cable length  | 1,5 m           |

## Functions

|                                     |                   |
|-------------------------------------|-------------------|
| PreTare function                    | ✓                 |
| Sum memory function                 | ✓                 |
| Recipe/summing level                | Rez A (Net total) |
| Percentage determination            | ✓                 |
| Dispensing function                 | ✓                 |
| Density determination               | ✓                 |
| Tolerance weighing                  | ✓                 |
| Tolerance weighing - type of signal | visual            |

# KERN PBS 1000-3



Multifunctional laboratory balance with single-cell weighing system

|   |   |
|---|---|
| Underfloor weighing   | Hook (included in delivery)               |
| Function for averaging under unstable weighing conditions         | ✓   |
| Capacity - Display  | ✓   |
| Standby function  | ✓   |
| Counting function   | ✓   |
| Counting resolution (laboratory conditions)                       | 1.020.000                                 |
| Smallest piece weight when piece counting - laboratory conditions | 1 mg                                      |
| Smallest piece weight when piece counting - normal conditions     | 10 mg                                     |
| Reference quantity  | 10, 25, 50, 100, n (any number of pieces) |
| Hold function   | ✓   |
| Peak function   | ✓   |
| Tare function   | manual (multi)                            |
| Number of keys for operation                                      | 5   |

| 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   |
| 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]     | 10 °C  |
| Ambient temperature [Max]     | 30 °C  |
| Humidity of environment [Max] | 80 %   |
| Storage temperature [Min]     | -10 °C |
| Storage temperature [Max]     | 50 °C  |

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

| Services (optional)                          |         |
|--|---------|
| Article number for DAkks calibration         | 963-103 |
| Article number for certificate of conformity | 969-517 |

| Packing & Shipping           |                |
|------------------------------|----------------|
| Delivery time                | 1 d            |
| Dimensions packaging (WxDxH) | 585x370x260 mm |
| Shipping method              | Parcel service |
| Net weight approx.           | 2,8 kg         |
| Gross weight approx.         | 5,0 kg         |
| Shipping weight              | 11,3 kg        |

| Product information |                |
|---------------------|----------------|
| GTIN/EAN number     | 404576 1492967 |

## Pictograms

### STANDARD



### OPTION

