# KERN **PBS 4200-2M**

Multifunctional laboratory balance with single-cell weighing system



**Date of creation: 23.10.2026**

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

| Measuring System | |
|---|---|
| Weighing system | Single-Cell |
| Weighing capacity [Max] | 4200 g |
| USP Minimum weight of sample (k = 2, U = 0.1%) | 20 g |
| Readability [d] | 0,01 g |
| Reproducibility | 0,01 g |
| Linearity | ± 0,02 g |
| Resolution | 420.000 |
| Adjustment options | Adjusting with external weight |
| Recommended adjusting weight | 4 kg (E2) |
| Stabilization time | 2,5 s |
| Eccentric loading at 1/3 [Max] | 0,05 g |
| Construction type of the scale | Single-range balance |
| Units | kg<br>g |
| Maximum creep (15 minutes) | 100 mg |
| Maximum creep (30 minutes) | 200 mg |
| Default unit | g |
| Warm-up time | 4 h |

| Display | |
|---|---|
| Display type | LCD |
| Display backlight | ✓ |
| Display digit height | 14 mm |

| Construction | |
|---|---|
| Dimension housing (W×D×H) | 200×320×85 mm |
| Dimensions weighing surface (W×D) | 180×190 mm |
| Dimensions weighing surface | 180×190 mm |
| Dimensions weighing platform (W×D×H) | 170×180×5 mm |
| Material housing | cast aluminium |
| Material weighing plate | stainless steel |
| Material display housing | plastic |
| Level indicator | ✓ |
| Levelling feet adjustable | ✓ |

| Functions | |
|---|---|
| Density determination | ✓ |
| Dispensing function | ✓ |
| Peak function | ✓ |
| PreTare function | ✓ |
| Percentage determination | ✓ |
| Standby function | ✓ |
| Function for averaging under unstable weighing conditions | ✓ |
| Tolerance weighing | ✓ |
| Counting function | ✓ |
| Capacity - Display | ✓ |
| Tare function | manual (multi) |
| Underfloor weighing | Hook (included in delivery) |
| Counting resolution (laboratory conditions) | 420.000 |
| Smallest piece weight when piece counting - laboratory conditions | 10 mg |
| Reference quantity | 10, 25, 50, 100, n (any number of pieces) |
| Recipe/summing level | Rez A (Net total) |
| Number of keys for operation | 6 |
| Smallest piece weight when piece counting - normal conditions | 100 mg |
| Tolerance weighing - type of signal | visual |

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## Interface

| | |
|---|---|
| Interfaces | RS-232 standard |

## 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>UK<br>US<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 AC, 50 / 60 Hz |
| Input voltage device / power [Max] | 12 V DC, 1000 mA |
| 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 |
| Humity of environment [Max] | 80 % |
| Storage temperature [Min] | -10 °C |
| Storage temperature [Max] | 50 °C |

## Services (optional)

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

## Packing & Shipping

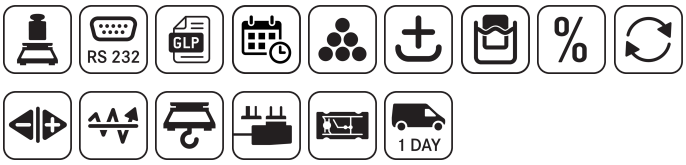
| | |
|---|---|
| Delivery time | 1 d |
| Dimensions packaging (W×D×H) | 450×370×255 mm |
| Shipping method | Parcel service |
| Net weight approx. | 3,2 kg |
| Gross weight approx. | 5,0 kg |
| Shipping weight | 8,5 kg |
| Shipping volume weight | 8,5 kg |

## Product information

| | |
|---|---|
| GTIN/EAN number | 4045761094444 |
| Trade number | 90160010 |
| Warranty Time | 36 mon |
| REACH classification | no prohibited substances |

## Pictograms

### STANDARD




### OPTION

