# KERN **ABT 220-5DNM**

The premium model with single-cell weighing system



**Date of creation: 02.10.2026**

| Category | |
|---|---|
| Brand | KERN |
| Product category | Laboratory balance |
| Product group | Analytical balance |
| Product family | ABT |

| Measuring System | |
|---|---|
| Weighing system | Single-Cell |
| Weighing capacity [Max] | 82 g; 220 g |
| USP Minimum weight of sample (k = 2, U = 0.1%) | 100 mg |
| Readability [d] | 0,00001 g; 0,0001 g |
| Automatic adjustment - Standard temperature deviation | 0,5 °C |
| Automatic adjustment - Standard time interval | 4 h |
| Reproducibility | 0,00005 g; 0,0001 g |
| Linearity | ± 0,0001 g; 0,0002 g |
| Resolution | 8.200.000, 2.200.000 |
| Tare range | 220 g |
| Adjustment options | Internal calibration (automatic)<br>Adjusting with internal weight (manual) |
| Stabilization time | 10 s; 4 s |
| Eccentric loading at 1/3 [Max] | 0,00012 g; 0,0003 g |
| Construction type of the scale | Multi-range balance |
| Units | g<br>ct |
| Default unit | g |
| Warm-up time | 8 h; 8 h |
| typical reproducibility | 0,000007 g |
| typical USP Minimum weight of sample | 14 mg |

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

| Construction | |
|---|---|
| Dimension housing (W×D×H) | 215×340×335 mm |
| Dimensions rectangular draught shield - inner (W×D×H) | 168×172×223 mm |
| Dimensions rectangular draught shield - outer (W×D×H) | 200×240×260 mm |
| Dimensions weighing surface (Ø) | 80 mm |
| Dimensions weighing surface | 80 mm |
| Material housing | metal |
| Material weighing plate | stainless steel |
| Material draught shield | glass |
| Material display housing | plastic |
| Level indicator | ✓ |
| Levelling feet adjustable | ✓ |

| Functions | |
|---|---|
| Density determination | ✓ |
| Percentage determination | ✓ |
| Standby function | ✓ |
| Function for averaging under unstable weighing conditions | ✓ |
| Counting function | ✓ |
| Capacity - Display | ✓ |
| Tare function | manual (multi) |
| Underfloor weighing | Hook (included in delivery) |
| Counting resolution (laboratory conditions) | 2.200.000 |
| Counting reference weight can be entered | ✓ |
| Smallest piece weight when piece counting - laboratory conditions | 0,1 mg |
| Reference quantity | 10, 20, 50, 100 |
| Recipe/summing level | Rez A (Net total) |
| Number of keys for operation | 6 |
| Smallest piece weight when piece counting - normal conditions | 1 mg |

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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>AUS<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] | 220 V - 240 V AC, 50 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 [Min] | 20 % |
| Humity of environment [Max] | 80 % |
| Storage temperature [Min] | -10 °C |
| Storage temperature [Max] | 50 °C |

| Services (optional) | |
|---|---|
| Article number for DAkkS calibration | 963-101 |
| Article number for certificate of conformity | 969-517 |

| Packing & Shipping | |
|---|---|
| Delivery time | 1 d |
| Dimensions packaging (W×D×H) | 430×685×650 mm |
| Shipping method | Parcel service |
| Net weight approx. | 8 kg |
| Gross weight approx. | 13 kg |
| Shipping weight | 38,3 kg |
| Shipping volume weight | 38,3 kg |

| Product information | |
|---|---|
| GTIN/EAN number | 4045761185555 |
| Trade number | 90160010 |
| Warranty Time | 36 mon |
| REACH classification | no prohibited substances |

## Pictograms

### STANDARD




### OPTION

