

# KERN ABP 200-5M



Premium single-range semi-micro balance with unbelievably high resolution and the latest Single-Cell Generation for extremely rapid and stable weighing results



## Category

|                  |                    |
|------------------|--------------------|
| Brand            | KERN               |
| Product category | Laboratory balance |
| Product group    | Analytical balance |
| Product family   | ABP                |

## Measuring System

|   |   |
|---|---|
| Construction type of the scale                        | Single-range balance  |
| Weighing system                                       | Single-Cell   |
| Weighing capacity [Max]                               | 220 g   |
| Weighing capacity [Max] (ct)                          | 1100 ct   |
| Readability [d]                                       | 0,00001 g   |
| Readability carat [d] (ct)                            | 0,0001 ct   |
| Reproducibility                                       | 0,000015 g; 0,00003 g;<br>0,00005 g   |
| Linearity   | ± 0,0001 g  |
| USP Minimum weight of sample (k = 2, U = 0.1%)        | 30 mg   |
| Minimum weight [Min]                                  | 0,001 g   |
| Minimum weight [Min] (ct)                             | 0,1 ct  |
| Resolution  | 22.000.000  |
| Tare range  | 220 g   |
| Adjustment options                                    | Internal calibration (automatic)<br>Adjusting with internal weight (manual) |
| Automatic adjustment - Standard temperature deviation | 1 °C  |
| Automatic adjustment - Standard time interval         | 4 h   |
| Stabilization time                                    | 8 s   |
| Warm-up time  | 8 h   |
| Eccentric loading at 1/3 [Max]                        | 0,0001 g  |

|  |               |
|--|---------------|
| Default unit                             | g             |
| Units                                    | g<br>mg<br>ct |
| Units (if device is conformity assessed) | g<br>mg<br>ct |
| Conformity assessment possible           | ✓             |

## Display

|                                 |                      |
|---------------------------------|----------------------|
| Display type                    | OLED                 |
| Display type                    | OLED                 |
| Display backlight               | LED is self-luminous |
| Display segments                | 7                    |
| Display digit height            | 12 mm                |
| Languages of the user interface | German<br>English    |

## Construction

|   |                         |
|---|-------------------------|
| Dimension housing (W×D×H)                             | 220×370×350 mm          |
| Dimensions rectangular draught shield - inner (W×D×H) | 166×156×220 mm          |
| Dimensions rectangular draught shield - outer (W×D×H) | 213×156×225 mm          |
| Dimensions weighing surface (Ø)                       | 91 mm                   |
| Dimensions weighing surface                           | 91 mm                   |
| Material housing                                      | cast aluminium, plastic |
| Material weighing plate                               | stainless steel         |
| Material platform                                     | Stainless steel         |
| Material draught shield                               | glass                   |
| Level indicator                                       | ✓                       |
| Levelling feet adjustable                             | ✓                       |

## Functions

|  |  |
|--|--|
| Sum memory function  | ✓  |
| Recipe/summing level                                       | Rez B (Net-total, memory with plain text designations + setpoint, also for printout) |
| Recipe weighing - number of database entries               | 5  |
| Recipe weighing - number of ingredients per database entry | 10   |
| Percentage determination                                   | ✓  |
| Tolerance weighing   | ✓  |
| Tolerance weighing - type of signal                        | visual   |
| Underfloor weighing  | Hook (included in delivery)  |

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|   |                 |
|---|-----------------|
| Function for averaging under unstable weighing conditions         | ✓               |
| Capacity - Display  | ✓               |
| Standby function  | ✓               |
| Counting function   | ✓               |
| Counting resolution (laboratory conditions)                       | 220.000         |
| Counting reference weight can be entered                          | ✓               |
| Smallest piece weight when piece counting - laboratory conditions | 1 mg            |
| Smallest piece weight when piece counting - normal conditions     | 10 mg           |
| Reference quantity  | 10, 20, 50, 100 |
| Tare function   | manual (multi)  |
| Number of keys for operation                                      | 11              |

## Interface

|            |  |
|------------|--|
| Interfaces | RS-232 standard<br>USB-Host/Master<br>USB-Device |
|------------|--|

## 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>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, 1 A                     |

## 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 | ✓ |
|---------|---|

|   |         |
|---|---------|
| Conformity assessment possible ex works | ✓       |
| Accuracy classe                         | I       |
| Verification scale interval [e]         | 0,001 g |
| Verification scale interval [e] (ct)    | 0,01 ct |

## Services (optional)

|   |         |
|---|---------|
| Article number for conformity assessment                    | 965-201 |
| Article number for DAkkS calibration                        | 963-101 |
| Article number for certificate of conformity (verification) | 969-517 |

## Packing & Shipping

|                              |                |
|------------------------------|----------------|
| Delivery time                | 1 d            |
| Dimensions packaging (W×D×H) | 382×585×535 mm |
| Net weight                   | 7,9 kg         |
| Shipping method              | Parcel service |
| Net weight approx.           | 8 kg           |
| Gross weight approx.         | 12 kg          |
| Shipping weight              | 23,9 kg        |

## Pictograms

### STANDARD



### OPTION



### FACTORY

