

# KERN ABP 100-5DM

Premium analytical balance with the latest Single-Cell Generation for extremely rapid, stable weighing results



|   |                    |
|---|--------------------|
| Automatic adjustment - Standard temperature deviation | 1 °C               |
| Automatic adjustment - Standard time interval         | 4 h                |
| Stabilization time                                    | 8 s; 2 s           |
| Warm-up time  | 8 h; 8 h           |
| Eccentric loading at 1/3 [Max]                        | 0,0001 g; 0,0003 g |

## Approval

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

## Display

|                                 |                      |
|---------------------------------|----------------------|
| Display type                    | OLED                 |
| Display type                    | OLED                 |
| Display backlight               | LED is self-luminous |
| 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          |
| Material housing                                      | cast aluminium, plastic |
| Material weighing plate                               | stainless steel         |
| Material platform                                     | Stainless steel         |
| Material draught shield                               | glass                   |
| Dimensions weighing surface (Ø)                       | 91 mm                   |
| Levelling feet adjustable                             | ✓                       |

## Functions

|   |                |
|---|----------------|
| Number of keys for operation                              | 11             |
| Capacity - Display  | ✓              |
| Tare function   | manual (multi) |
| Percentage determination                                  | ✓              |
| Counting function   | ✓              |
| Tolerance weighing  | ✓              |
| Tolerance weighing - type of signal                       | visual         |
| Function for averaging under unstable weighing conditions | ✓              |
| Standby function  | ✓              |

## Category

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

## Measuring System

|                                |                        |
|--------------------------------|------------------------|
| Construction type of the scale | Multi-division balance |
| Weighing system                | Single-Cell            |
| Weighing capacity [Max]        | 52 g; 120 g            |
| Weighing capacity [Max] (ct)   | 600 ct                 |
| Readability [d]                | 0,00001 g; 0,0001 g    |
| Readability carat [d] (ct)     | 0,0001 ct; 0,001 ct    |
| Resolution                     | 5.200.000, 1.200.000   |
| Linearity                      | ± 0,00005 g; 0,0002 g  |
| Reproducibility                | 0,00002 g; 0,0001 g    |
| Tare range                     | 120 g                  |
| Default unit                   | g                      |

|       |               |
|-------|---------------|
| Units | g<br>mg<br>ct |
|-------|---------------|

|  |               |
|--|---------------|
| Units (if device is conformity assessed) | g<br>mg<br>ct |
|--|---------------|

|                      |         |
|----------------------|---------|
| Minimum weight [Min] | 0,001 g |
|----------------------|---------|

|  |       |
|--|-------|
| USP Minimum weight of sample (k = 2, U = 0.1%) | 40 mg |
|--|-------|

|                           |         |
|---------------------------|---------|
| Minimum weight [Min] (ct) | 0,01 ct |
|---------------------------|---------|

|                    |   |
|--------------------|---|
| Adjustment options | Internal calibration (automatic)<br>Adjusting with internal weight (manual) |
|--------------------|---|

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|  |  |
|--|--|
| 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   |
| Sum memory function  | ✓  |
| Underfloor weighing  | Hook (included in delivery)  |
| Interfaces   | RS-232 standard<br>USB-Host/Master<br>USB-Device                                     |

## Counting

|   |                 |
|---|-----------------|
| Smallest piece weight when piece counting - laboratory conditions | 1 mg            |
| Smallest piece weight when piece counting - normal conditions     | 10 mg           |
| Counting reference weight can be entered                          | ✓               |
| Reference quantity  | 10, 20, 50, 100 |
| Counting resolution (laboratory conditions)                       | 120.000         |

## Power Supply

|   |                               |
|---|-------------------------------|
| Input voltage power supply / power [Max]                                  | 220 V - 240 V AC, 50 Hz       |
| Input voltage device / power [Max]  | 12 V, 1 A                     |
| Plug-in power supply type   | Power adapter                 |
| Supplied power supply   | Power supply unit             |
| 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>UK<br>US<br>CH        |

## Environmental conditions

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

## Packing & Shipping

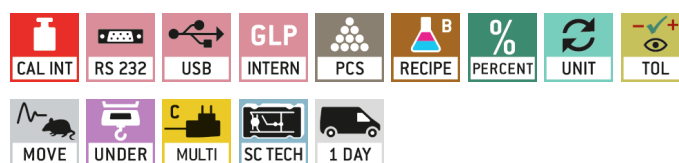
|                              |                |
|------------------------------|----------------|
| Readability force [d] (N)    | 1 d            |
| Dimensions packaging (W×D×H) | 595×380×540 mm |
| Net weight                   | 7,72 kg        |
| Shipping method              | Parcel service |
| Net weight approx.           | 8 kg           |
| Gross weight approx.         | 12 kg          |
| Shipping weight              | 24,4 kg        |

## 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 |

## Pictograms

### STANDARD



### OPTION



### FACTORY

