

# KERN ABP 100-4M

**KERN**

Premium analytical balance with the latest Single-Cell Generation for extremely rapid, 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]                        | 120 g                |
| Weighing capacity [Max] (ct)                   | 600 ct               |
| Readability [d]                                | 0,0001 g             |
| Readability carat [d] (ct)                     | 0,001 ct             |
| Reproducibility                                | 0,0001 g             |
| Linearity                                      | ± 0,0002 g           |
| USP Minimum weight of sample (k = 2, U = 0.1%) | 200 mg               |
| Minimum weight [Min]                           | 0,01 g               |
| Minimum weight [Min] (ct)                      | 0,1 ct               |
| Resolution                                     | 1.200.000            |
| Tare range                                     | 120 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 | 2 s |
|--------------------|-----|

|              |     |
|--------------|-----|
| Warm-up time | 8 h |
|--------------|-----|

|                                |          |
|--------------------------------|----------|
| Eccentric loading at 1/3 [Max] | 0,0003 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)                                                          |
| Function for averaging under unstable weighing conditions  | ✓                                                                                    |

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|                                                                   |                 |
|-------------------------------------------------------------------|-----------------|
| Capacity - Display                                                | ✓               |
| Standby function                                                  | ✓               |
| Counting function                                                 | ✓               |
| Counting resolution (laboratory conditions)                       | 120.000         |
| 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>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)

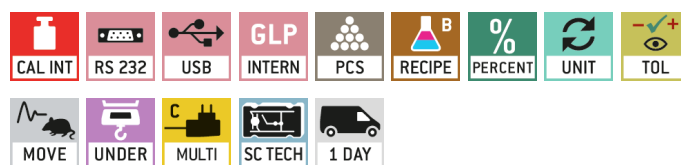
|                                                             |         |
|-------------------------------------------------------------|---------|
| Article number for conformity assessment                    | 965-201 |
| Article number for DAkkS calibration                        | 963-101 |
| Article 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.         | 11 kg          |
| Shipping weight              | 23,9 kg        |

## Pictograms

### STANDARD



### OPTION



### FACTORY

