

# KERN EMB 100-3

**KERN**

Entry level laboratory balance with tremendous weighing performance



## Category

|                  |                    |
|------------------|--------------------|
| Brand            | KERN               |
| Product category | Laboratory balance |
| Product group    | School balance     |
| Product family   | EMB                |

## Measuring System

|                         |              |
|-------------------------|--------------|
| Weighing system         | Strain gauge |
| Weighing capacity [Max] | 100 g        |
| Readability [d]         | 0,001 g      |
| Reproducibility         | 0,001 g      |
| Linearity               | ± 0,005 g    |
| Resolution              | 100.000      |
| Tare range              | 100 g        |

|                                |                                |
|--------------------------------|--------------------------------|
| Adjustment options             | Adjusting with external weight |
| Recommended adjusting weight   | 100 g (F2)                     |
| Possible calibration points    | 100 g                          |
| Stabilization time             | 2,5 s                          |
| Eccentric loading at 1/3 [Max] | 0,005 g                        |
| Construction type of the scale | Single-range balance           |

|                            |                       |
|----------------------------|-----------------------|
| Units                      | g<br>dwt<br>ozt<br>oz |
| Maximum creep (15 minutes) | 10 mg                 |
| Maximum creep (30 minutes) | 20 mg                 |
| Default unit               | g                     |

## Display

|                   |     |
|-------------------|-----|
| Display type      | LCD |
| Display backlight | no  |

|                                 |                 |
|---------------------------------|-----------------|
| Display screen size             | 58×18 mm        |
| Display digit height            | 15 mm           |
| Languages of the user interface | Symbol language |

## Construction

|                                                     |               |
|-----------------------------------------------------|---------------|
| Dimension housing (W×D×H)                           | 170×244×54 mm |
| Dimensions completely mounted (W×D×H)               | 170×240×92 mm |
| Dimensions ring-shaped draught shield - inner (Ø×H) | 96×35 mm      |
| Dimensions ring-shaped draught shield - outer (Ø×H) | 105×35 mm     |

|                                 |       |
|---------------------------------|-------|
| Dimensions weighing surface (Ø) | 82 mm |
| Dimensions weighing surface     | 82 mm |

|                  |         |
|------------------|---------|
| Material housing | plastic |
|------------------|---------|

|                         |                                  |
|-------------------------|----------------------------------|
| Material weighing plate | plastic, with conductive lacquer |
|-------------------------|----------------------------------|

|                         |         |
|-------------------------|---------|
| Material draught shield | plastic |
|-------------------------|---------|

|                          |         |
|--------------------------|---------|
| Material display housing | plastic |
|--------------------------|---------|

## Functions

|                                                                |                             |
|----------------------------------------------------------------|-----------------------------|
| Underfloor weighing                                            | Hook (included in delivery) |
| IP protection - complete device                                | -                           |
| Auto-off interval(s) in battery mode/rechargeable battery mode | 3 min                       |
| Tare function                                                  | manual (multi)              |
| Number of keys for operation                                   | 2                           |

## Power Supply

|                                                         |                                                                          |
|---------------------------------------------------------|--------------------------------------------------------------------------|
| Supplied power supply                                   | Battery                                                                  |
| Power supply type                                       | Power adapter                                                            |
| 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]                      | 9 V, 300 mA                                                              |
| Power socket for mains adapter                          | Hollow plug, inside minus, Ø inside 2,1 mm, Ø outside 5,5 mm, long 12 mm |
| Battery / accumulator type                              | Alkali(-Manganese)                                                       |
| Battery                                                 | 9 V block                                                                |
| Battery connection                                      | Pad + Spring                                                             |
| Battery operating time                                  | 16 h                                                                     |
| Battery voltage                                         | 9 V                                                                      |
| Battery - Number of cells                               | 1                                                                        |

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|                                                     |                         |
|-----------------------------------------------------|-------------------------|
| Battery – Individual weight                         | 48,7 g                  |
| Battery – Total weight                              | 48,7 g                  |
| Rechargeable battery                                | KS-A01                  |
| Rechargeable battery operating time - backlight off | 50 h                    |
| Rechargeable battery charging time                  | 10 h                    |
| Rechargeable battery optional                       | Rchrg. battery optional |
| Battery/Accu connected                              | not connected, enclosed |

## Environmental conditions

|                               |        |
|-------------------------------|--------|
| Ambient temperature [Min]     | 5 °C   |
| Ambient temperature [Max]     | 35 °C  |
| Humidity of environment [Max] | 80 %   |
| Storage temperature [Min]     | -20 °C |
| Storage temperature [Max]     | 60 °C  |

## Approval

|         |   |
|---------|---|
| CE mark | ✓ |
|---------|---|

## 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) | 220×290×147 mm |
| Shipping method              | Parcel service |
| Net weight approx.           | 0,85 kg        |
| Gross weight approx.         | 1,4 kg         |
| Shipping weight              | 1,9 kg         |

## Product information

|                      |                          |
|----------------------|--------------------------|
| GTIN/EAN number      | 4045761098060            |
| Trade number         | 90160010                 |
| REACH classification | no prohibited substances |

## Pictograms

### STANDARD



### OPTION

