

# KERN EMS 12K0.1

**KERN**

Entry level model in the low-cost range with large weighing plate



Date of creation: 19.06.2026

| Category                       |                                |
|--------------------------------|--------------------------------|
| Brand                          | KERN                           |
| Product category               | Laboratory balance             |
| Product group                  | School balance                 |
| Product family                 | EMS                            |
| Measuring System               |                                |
| Weighing system                | Strain gauge                   |
| Weighing capacity [Max]        | 12000 g                        |
| Readability [d]                | 0,1 g                          |
| Reproducibility                | 0,1 g                          |
| Linearity                      | ± 0,3 g                        |
| Resolution                     | 120.000                        |
| Tare range                     | 12000 g                        |
| Adjustment options             | Adjusting with external weight |
| Recommended adjusting weight   | 12 kg (F2)                     |
| Possible calibration points    | 12 kg                          |
| Stabilization time             | 3 s                            |
| Eccentric loading at 1/3 [Max] | 0,5 g                          |
| Construction type of the scale | Single-range balance           |
| Units                          | g                              |
|                                | dwt                            |
|                                | ozt                            |
|                                | oz                             |
| Maximum creep (15 minutes)     | 1 g                            |
| Maximum creep (30 minutes)     | 2 g                            |
| Default unit                   | g                              |
| Display                        |                                |
| Display type                   | LCD                            |
| Display backlight              | no                             |

|                                 |                 |
|---------------------------------|-----------------|
| Display digit height            | 25 mm           |
| Languages of the user interface | Symbol language |

| Construction                      |               |
|-----------------------------------|---------------|
| Dimension housing (W×D×H)         | 200×280×65 mm |
| Dimensions weighing surface (W×D) | 175×190 mm    |
| Dimensions weighing surface       | 175×190 mm    |
| Material housing                  | plastic       |
| Material weighing plate           | plastic       |
| Material display housing          | plastic       |

| Functions                                                         |                   |
|-------------------------------------------------------------------|-------------------|
| Recipe/summing level                                              | Rez A (Net total) |
| Percentage determination                                          | ✓                 |
| Counting function                                                 | ✓                 |
| Counting resolution (laboratory conditions)                       | 60.000            |
| Smallest piece weight when piece counting - laboratory conditions | 200 mg            |
| Smallest piece weight when piece counting - normal conditions     | 2 g               |
| Reference quantity                                                | 5, 10, 20, 25, 50 |
| 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                                      | 5                 |

| Power Supply                                                              |                                                                          |
|---------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Supplied power supply                                                     | Power supply & battery function (battery not included)                   |
| Power supply type                                                         | Power adapter                                                            |
| Plug-in power supply / adapter for countries - included with the delivery | 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                                                        | 9V Bloc                                                                  |
| Battery operating time                                                    | 40 h                                                                     |

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|                                                     |                         |
|-----------------------------------------------------|-------------------------|
| Rechargeable battery operating time - backlight off | 50 h                    |
| Rechargeable battery optional                       | Rchrg. battery optional |

## Environmental conditions

|                               |        |
|-------------------------------|--------|
| Ambient temperature [Min]     | 5 °C   |
| Ambient temperature [Max]     | 35 °C  |
| Humidity of environment [Min] | 40 %   |
| 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         | 963-128 |
| Article number for certificate of conformity | 969-517 |

## Packing & Shipping

|                              |                |
|------------------------------|----------------|
| Delivery time                | 1 d            |
| Dimensions packaging (W×D×H) | 315×235×160 mm |
| Shipping method              | Parcel service |
| Net weight approx.           | 1,6 kg         |
| Gross weight approx.         | 2,0 kg         |
| Shipping weight              | 2,4 kg         |
| Shipping volume weight       | 2,4 kg         |

## Product information

|                      |                          |
|----------------------|--------------------------|
| GTIN/EAN number      | 4045761124417            |
| Trade number         | 84238129                 |
| REACH classification | no prohibited substances |

## Pictograms

### STANDARD



### OPTION

