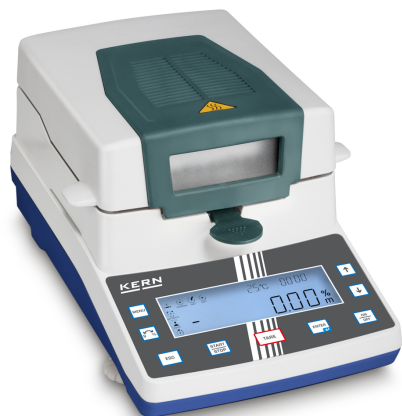


# KERN DAB 100-3IR

Particularly user-friendly moisture analyzer with high-quality infrared quartz glass heater



|                                |         |
|--------------------------------|---------|
| Stabilization time             | 3 s     |
| Warm-up time                   | 120 min |
| Eccentric loading at 1/3 [Max] | 0,005 g |
| Maximum creep (15 minutes)     | 10 mg   |
| Maximum creep (30 minutes)     | 20 mg   |
| Readability moisture [d] (%)   | 0,01%   |

## Approval

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

## Display

|                                       |         |
|---------------------------------------|---------|
| Display type                          | graphic |
| Display screen size                   | 5.4"    |
| Display backlight                     | ✓       |
| Display digit height - smallest digit | 6 mm    |
| Display digit height                  | 14 mm   |

## Construction

|                                       |                         |
|---------------------------------------|-------------------------|
| Dimensions completely mounted (W×D×H) | 240×365×180 mm          |
| Material housing                      | cast aluminium, plastic |
| Material weighing plate               | aluminium sample plates |
| Dimensions weighing surface (Ø)       | 92 mm                   |
| Levelling feet adjustable             | ✓                       |
| Heat generation capacity (W)          | 400                     |

## Functions

|  |   |
|--|---|
| Number of keys for operation             | 9   |
| Auto-off interval(s) in mains power mode | off   |
| Tare function                            | manual (multi)  |
| Memory function                          | ✓   |
| Memory - number of sample (descriptions) | 5   |
| Memory - number of results               | 5   |
| Memory - number of drying programs       | 15  |
| Interfaces                               | RS-232 standard   |
| Drying modes                             | Standard drying<br>Rapid drying<br>Gentle drying<br>time controlled |
| Switch-off criteria                      | automatic<br>manual   |

## Power Supply

|  |                 |
|--|-----------------|
| Input voltage power supply / power [Max] | 230 V AC, 50 Hz |
|--|-----------------|

## Category

|                  |                    |
|------------------|--------------------|
| Brand            | KERN               |
| Product category | Laboratory balance |
| Product group    | Moisture analyser  |
| Product family   | DAB                |

## Measuring System

|  |                                |
|--|--------------------------------|
| Construction type of the scale                 | Single-range balance           |
| Weighing system                                | Strain gauge                   |
| Weighing capacity [Max]                        | 110 g                          |
| Temperature [Min] (°C)                         | 40 °C                          |
| Temperature [Max] (°C)                         | 160 °C                         |
| Readability [d]                                | 0,001 g                        |
| Resolution                                     | 110.000                        |
| Linearity                                      | ± 0,003 g                      |
| Reproducibility                                | 0,001 g                        |
| Reproducibility weight of sample 2 g           | 0,15%                          |
| Reproducibility weight of sample 10 g          | 0,03%                          |
| Tare range                                     | 110 g                          |
| Default unit                                   | g                              |
| Units  | g<br>% Humidity<br>% Dry mass  |
| USP Minimum weight of sample (k = 2, U = 0.1%) | 2 g                            |
| Temperature increment                          | 1 °C                           |
| Adjustment options                             | Adjusting with external weight |
| Recommended adjusting weight                   | 100 g (F2)                     |
| Possible calibration points                    | 100 g                          |
| Temperature calibration points                 | 100 °C; 160 °C                 |

# KERN DAB 100-3IR



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|   |                       |
|---|-----------------------|
| Input voltage device / power [Max]                      | 230 V AC, 50 Hz       |
| Plug-in power supply type                               | Built-in power supply |
| Supplied power supply                                   | Power supply unit     |
| Plug-in power supply / adapter for countries - optional | UK<br>CH              |

## Environmental conditions

|                               |       |
|-------------------------------|-------|
| Humidity of environment [Min] | 5 %   |
| Humidity of environment [Max] | 80 %  |
| Ambient temperature [Min]     | 5 °C  |
| Ambient temperature [Max]     | 40 °C |

## Packing & Shipping

|                              |                |
|------------------------------|----------------|
| Readability force [d] (N)    | 1 d            |
| Dimensions packaging (W×D×H) | 490×350×350 mm |
| Net weight                   | 4,82 kg        |
| Shipping method              | Parcel service |
| Net weight approx.           | 5,0 kg         |
| Gross weight approx.         | 8 kg           |
| Shipping weight              | 12 kg          |

## Services (optional)

|   |         |
|---|---------|
| Article number for DAkkS calibration                        | 963-127 |
| Article number for factory calibration (temperature)        | 964-305 |
| Article number for certificate of conformity (verification) | 969-517 |

## Pictograms

### STANDARD



### OPTION

