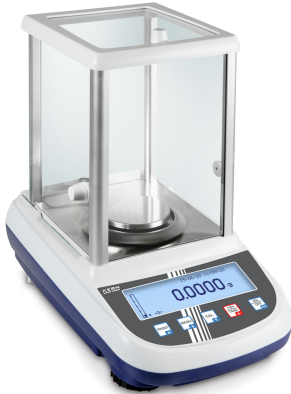


# KERN ALJ 160-4AM

# KERN

Analytical balance with high weighing capacity, graphic display and convenient recipe function



## Category

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

## Measuring System

|                                |                      |
|--------------------------------|----------------------|
| Construction type of the scale | Single-range balance |
| Weighing system                | Force compensation   |
| Weighing capacity [Max]        | 160 g                |
| Weighing capacity [Max] (ct)   | 800 ct               |
| Readability [d]                | 0,0001 g             |
| Readability carat [d] (ct)     | 0,001 ct             |
| Resolution                     | 1.600.000            |
| Linearity                      | ± 0,0003 g           |
| Reproducibility                | 0,0001 g             |
| Default unit                   | g                    |

|       |                     |
|-------|---------------------|
| Units | g                   |
|       | mg                  |
|       | gn                  |
|       | dwt                 |
|       | tl (Tw)             |
|       | tl (HK)             |
|       | ozt                 |
|       | tl (Singap, Malays) |
|       | ct                  |
|       | mo                  |

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

|                      |        |
|----------------------|--------|
| Minimum weight [Min] | 0,01 g |
|----------------------|--------|

|   |                                  |
|---|----------------------------------|
| USP Minimum weight of sample (k = 2, U = 0.1%)        | 200 mg                           |
| Minimum weight [Min] (ct)                             | 0,1 ct                           |
| Adjustment options                                    | Internal calibration (automatic) |
| Automatic adjustment - Standard temperature deviation | 1,2 °C                           |
| Automatic adjustment - Standard time interval         | 3 h                              |
| Stabilization time                                    | 4 s                              |
| Warm-up time  | 8 h                              |
| Eccentric loading at 1/3 [Max]                        | 0,0003 g                         |

## Approval

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

## Display

|                                       |             |
|---------------------------------------|-------------|
| Display type                          | LCD graphic |
| Display screen size                   | 132×38 mm   |
| Display backlight                     | ✓           |
| Display digit height - smallest digit | 4 mm        |
| Display digit height                  | 15 mm       |
| Languages of the user interface       | English     |

## Construction

|   |                 |
|---|-----------------|
| Dimension housing (W×D×H)                             | 210×340×330 mm  |
| Dimensions rectangular draught shield - inner (W×D×H) | 160×170×225 mm  |
| Dimensions rectangular draught shield - outer (W×D×H) | 172×185×245 mm  |
| Dimensions completely mounted (W×D×H)                 | 210×340×330 mm  |
| Material display housing                              | Plastics        |
| Material housing                                      | plastic         |
| Material weighing plate                               | stainless steel |
| Material platform                                     | Stainless steel |
| Material draught shield                               | glass           |
| Dimensions weighing surface (Ø)                       | 80 mm           |
| Transport safety lock - bolt torque                   | 0,1 Nm          |
| Levelling feet adjustable                             | ✓               |

## Functions

|                              |   |
|------------------------------|---|
| Number of keys for operation | 6 |
|------------------------------|---|

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|  |  |
|--|--|
| Auto-off interval(s) in mains power mode                   | off<br>5 min<br>2 min<br>15 min  |
| Capacity - Display   | ✓  |
| PreTare function   | ✓  |
| Tare function  | manual (multi)   |
| Density determination                                      | ✓  |
| Dispensing function  | ✓  |
| Percentage determination                                   | ✓  |
| Counting function  | ✓  |
| Tolerance weighing   | ✓  |
| Tolerance weighing - type of signal                        | acoustically<br>visual   |
| Function for averaging under unstable weighing conditions  | ✓  |
| Standby function   | ✓  |
| Recipe/summing level                                       | Rez B (Net-total, memory with plain text designations + setpoint, also for printout) |
| Recipe weighing - number of database entries               | 99   |
| Recipe weighing - number of ingredients per database entry | 20   |
| Underfloor weighing  | None   |
| Interfaces   | RS-232 standard  |

## 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, 25, 50, 100, n (any number of pieces) |
| Counting resolution (laboratory conditions)                       | 160.000                                   |

## Power Supply

|   |                   |
|---|-------------------|
| Input voltage power supply / power [Max]                                  | country dependent |
| Input voltage device / power [Max]  | 24 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 |

|   |                  |
|---|------------------|
|   | US<br>CH<br>EURO |
| Plug-in power supply / adapter for countries - optional | UK<br>US<br>CH   |

## Environmental conditions

|                               |        |
|-------------------------------|--------|
| Humidity of environment [Max] | 80 %   |
| Ambient temperature [Min]     | 5 °C   |
| Ambient temperature [Max]     | 35 °C  |
| Storage temperature [Min]     | -10 °C |
| Storage temperature [Max]     | 40 °C  |

## Packing & Shipping

|                              |                |
|------------------------------|----------------|
| Readability force [d] (N)    | 1 d            |
| Dimensions packaging (W×D×H) | 400×515×615 mm |
| Net weight                   | 6,5 kg         |
| Shipping method              | Parcel service |
| Net weight approx.           | 7 kg           |
| Gross weight approx.         | 9 kg           |
| Shipping weight              | 25,3 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

