

# KERN ALJ 160-4A

# KERN

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



## Units

g  
mg  
gn  
dwt  
tl (Tw)  
tl (HK)  
ozt  
tl (Singap, Malays)  
ct  
mo  
lb  
oz

## Display

|                                       |             |
|---------------------------------------|-------------|
| Display type                          | LCD graphic |
| Display backlight                     | ✓           |
| Display screen size                   | 132×38 mm   |
| 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 completely mounted (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 weighing surface (Ø)                       | 80 mm           |
| Dimensions weighing surface                           | 80 mm           |
| Material housing                                      | plastic         |
| Material weighing plate                               | stainless steel |
| Material platform                                     | Stainless steel |
| Material draught shield                               | glass           |
| Material display housing                              | Plastics        |
| Level indicator                                       | ✓               |
| Levelling feet adjustable                             | ✓               |
| Transport safety lock - bolt torque                   | 0,1 Nm          |

## Functions

|                                                            |                                                                                      |
|------------------------------------------------------------|--------------------------------------------------------------------------------------|
| PreTare 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                                                                                   |

## 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                         |
| Reproducibility                                       | 0,0001 g                         |
| Linearity                                             | ± 0,0003 g                       |
| USP Minimum weight of sample (k = 2, U = 0.1%)        | 200 mg                           |
| Resolution                                            | 1.600.000                        |
| Adjustment options                                    | Internal calibration (automatic) |
| Recommended adjusting weight                          | 150 g (E2)                       |
| Possible calibration points                           | 150 g                            |
| 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                         |
| Maximum creep (15 minutes)                            | 1 mg                             |
| Maximum creep (30 minutes)                            | 2 mg                             |
| Default unit                                          | g                                |

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|                                                                   |                                           |
|-------------------------------------------------------------------|-------------------------------------------|
| Percentage determination                                          | ✓                                         |
| Dispensing function                                               | ✓                                         |
| Density determination                                             | ✓                                         |
| Tolerance weighing                                                | ✓                                         |
| Tolerance weighing - type of signal                               | acoustically<br>visual                    |
| Underfloor weighing                                               | None                                      |
| Function for averaging under unstable weighing conditions         | ✓                                         |
| Capacity - Display                                                | ✓                                         |
| Standby function                                                  | ✓                                         |
| Counting function                                                 | ✓                                         |
| Counting resolution (laboratory conditions)                       | 160.000                                   |
| 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, 25, 50, 100, n (any number of pieces) |
| Auto-off interval(s) in mains power mode                          | off<br>5 min<br>2 min<br>15 min           |
| Tare function                                                     | manual (multi)                            |
| Number of keys for operation                                      | 6                                         |

## Interface

|            |                 |
|------------|-----------------|
| Interfaces | RS-232 standard |
|------------|-----------------|

## 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]                                  | country dependent             |
| Input voltage device / power [Max]                                        | 24 V 1 A                      |

## Environmental conditions

|                           |      |
|---------------------------|------|
| Ambient temperature [Min] | 5 °C |
|---------------------------|------|

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

## Approval

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

## Services (optional)

|                                              |         |
|----------------------------------------------|---------|
| Article number for DAkkS calibration         | 963-101 |
| Article number for certificate of conformity | 969-517 |

## Packing & Shipping

|                              |                |
|------------------------------|----------------|
| Delivery time                | 1 d            |
| Dimensions packaging (W×D×H) | 400×515×615 mm |
| Shipping method              | Parcel service |
| Net weight approx.           | 7 kg           |
| Gross weight approx.         | 9 kg           |
| Shipping weight              | 25,3 kg        |

## Pictograms

### STANDARD



### OPTION

