

# KERN ACJ 300-4M

The bestseller in analytical balances, with high-quality single-cell weighing system, verification optional



|  |               |
|--|---------------|
| Units (if device is conformity assessed) | g<br>mg<br>ct |
| Default unit                             | g             |
| Minimum weight [Min] (ct)                | 0,1 ct        |
| Readability carat [d] (ct)               | 0,001 ct      |

| Display                         |                 |
|---------------------------------|-----------------|
| Display type                    | LCD             |
| Display type                    | LCD             |
| Display backlight               | no              |
| Display screen size             | 115×32 mm       |
| Display digit height            | 14 mm           |
| Languages of the user interface | Symbol language |

| Construction  |                         |
|---|-------------------------|
| Dimension housing (W×D×H)                             | 213×333×338 mm          |
| Dimensions rectangular draught shield - inner (W×D×H) | 174×162×227 mm          |
| Dimensions rectangular draught shield - outer (W×D×H) | 201×220×256 mm          |
| Dimensions weighing surface (Ø)                       | 91 mm                   |
| Dimensions weighing surface                           | 91 mm                   |
| Material housing                                      | cast aluminium, plastic |
| Material weighing plate                               | stainless steel         |
| Material draught shield                               | glass                   |
| Material display housing                              | plastic                 |
| Level indicator                                       | ✓                       |
| Levelling feet adjustable                             | ✓                       |

| Functions   |                    |
|---|--------------------|
| Recipe/summing level  | Rez A (Net total)  |
| Percentage determination  | ✓                  |
| Density determination   | ✓                  |
| Tolerance weighing  | ✓                  |
| Tolerance weighing - type of signal                               | visual             |
| Standby function  | ✓                  |
| Counting function   | ✓                  |
| Counting resolution (laboratory conditions)                       | 320.000            |
| 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  | 5, 10, 20, 50, 100 |

| Category         |                    |
|------------------|--------------------|
| Brand            | KERN               |
| Product category | Laboratory balance |
| Product group    | Analytical balance |
| Product family   | ACJ                |

| Measuring System                                      |   |
|---|---|
| Weighing system                                       | Single-Cell   |
| Weighing capacity [Max]                               | 320 g   |
| USP Minimum weight of sample (k = 2, U = 0.1%)        | 400 mg  |
| Readability [d]                                       | 0,0001 g  |
| Automatic adjustment - Standard temperature deviation | 2 °C  |
| Automatic adjustment - Standard time interval         | 4 h   |
| Reproducibility                                       | 0,0002 g  |
| Linearity   | ± 0,0003 g  |
| Minimum weight [Min] (verifiable)                     | 0,01 g  |
| Resolution  | 3.200.000   |
| Adjustment options                                    | Internal calibration (automatic)<br>Adjusting with internal weight (manual) |
| Recommended adjusting weight                          | 300 g (E2)  |
| Stabilization time                                    | 3 s   |
| Eccentric loading at 1/3 [Max]                        | 0,0005 g  |
| Weighing capacity [Max] (ct)                          | 1600 ct   |
| Conformity assessment possible                        | ✓   |
| Construction type of the scale                        | Single-range balance  |
| Units   | g<br>mg<br>ct   |

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|  |                |
|--|----------------|
| Auto-off interval(s) in mains power mode | 0 - 99 min     |
| Tare function                            | manual (multi) |
| Number of keys for operation             | 6              |

## Interface

|            |                               |
|------------|-------------------------------|
| Interfaces | RS-232 standard<br>USB-Device |
|------------|-------------------------------|

## Power Supply

|                       |                   |
|-----------------------|-------------------|
| Supplied power supply | Power supply unit |
| Power supply type     | Power adapter     |

|   |      |
|---|------|
| Plug-in power supply / adapter for countries - included with the delivery | EURO |
|   | AUS  |
|   | UK   |
|   | US   |

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

|  |                  |
|--|------------------|
| Input voltage power supply / power [Max] | 110 V - 230 V AC |
|--|------------------|

|                              |           |
|------------------------------|-----------|
| Power supply cable removable | removable |
|------------------------------|-----------|

|                                    |   |
|------------------------------------|---|
| Input voltage device / power [Max] | 12 V, 1 A   |
| Power socket for mains adapter     | Hollow plug, inside minus, Ø outside 5,5 mm, Ø inside 2,1 mm, long 9,5 mm |

## Environmental conditions

|                               |        |
|-------------------------------|--------|
| Ambient temperature [Min]     | 10 °C  |
| Ambient temperature [Max]     | 30 °C  |
| Humidity of environment [Min] | 20 %   |
| Humidity of environment [Max] | 85 %   |
| Storage temperature [Min]     | -10 °C |
| Storage temperature [Max]     | 50 °C  |

## Approval

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

## Services (optional)

|  |         |
|--|---------|
| Article number for conformity assessment | 965-201 |
|--|---------|

|                                      |         |
|--------------------------------------|---------|
| 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) | 390×570×530 mm |
| Shipping method              | Parcel service |
| Net weight approx.           | 7 kg           |
| Gross weight approx.         | 9 kg           |
| Shipping weight              | 23,6 kg        |
| Shipping volume weight       | 23,6 kg        |

## Product information

|                      |                          |
|----------------------|--------------------------|
| GTIN/EAN number      | 4045761235663            |
| Trade number         | 90160010                 |
| REACH classification | no prohibited substances |

## Pictograms

### STANDARD



### OPTION



### FACTORY

