

# KERN EW 620-3NM



The classic balance with robust tuning fork measuring system



## Category

|                  |                    |
|------------------|--------------------|
| Brand            | KERN               |
| Product category | Laboratory balance |
| Product group    | Precision balance  |
| Product family   | EW                 |

## Measuring System

|                         |             |
|-------------------------|-------------|
| Weighing system         | Tuning fork |
| Weighing capacity [Max] | 620 g       |
| Readability [d]         | 0,001 g     |
| Reproducibility         | 0,001 g     |
| Linearity               | ± 0,003 g   |
| Resolution              | 620.000     |

|                                                |                                |
|------------------------------------------------|--------------------------------|
| Adjustment options                             | Adjusting with external weight |
| Recommended adjusting weight                   | 500 g (E2)                     |
| Stabilization time                             | 2 s                            |
| Warm-up time                                   | 4 h                            |
| Eccentric loading at 1/3 [Max]                 | 0,003 g                        |
| USP Minimum weight of sample (k = 2, U = 0.1%) | 2 g                            |
| Construction type of the scale                 | Single-range balance           |

|       |                     |
|-------|---------------------|
| Units | g                   |
|       | gn                  |
|       | dwt                 |
|       | tl (Tw)             |
|       | tl (HK)             |
|       | ozt                 |
|       | tl (Singap, Malays) |
|       | ct                  |
|       | lb                  |
|       | oz                  |
|       | to                  |
|       | mom                 |

|                            |       |
|----------------------------|-------|
| Maximum creep (15 minutes) | 10 mg |
| Maximum creep (30 minutes) | 20 mg |
| Default unit               | g     |

## Display

|                                 |                 |
|---------------------------------|-----------------|
| Display type                    | LCD             |
| Display backlight               | ✓               |
| Display screen size             | 109×22 mm       |
| Display digit height            | 17 mm           |
| Languages of the user interface | Symbol language |

## Construction

|                                                       |                 |
|-------------------------------------------------------|-----------------|
| Dimension housing (W×D×H)                             | 180×235×75 mm   |
| Dimensions completely mounted (W×D×H)                 | 185×235×165 mm  |
| Dimensions rectangular draught shield - inner (W×D×H) | 158×130×78 mm   |
| Dimensions rectangular draught shield - outer (W×D×H) | 174×144×105 mm  |
| Dimensions weighing surface (Ø)                       | 118 mm          |
| Dimensions weighing surface                           | 118 mm          |
| Material housing                                      | plastic         |
| Material weighing plate                               | stainless steel |
| Material draught shield                               | plastic         |
| Level indicator                                       | ✓               |
| Levelling feet adjustable                             | ✓               |
| Draught shield optional                               | ✓               |

## Functions

|                                                                   |                 |
|-------------------------------------------------------------------|-----------------|
| Percentage determination                                          | ✓               |
| Tolerance weighing                                                | ✓               |
| Tolerance weighing - type of signal                               | visual          |
| Underfloor weighing                                               | Eye (optional)  |
| Capacity - Display                                                | ✓               |
| Counting function                                                 | ✓               |
| Counting resolution (laboratory conditions)                       | 620.000         |
| Smallest piece weight when piece counting - laboratory conditions | 1 mg            |
| Smallest piece weight when piece counting - normal conditions     | 10 mg           |
| Reference quantity                                                | 10, 30, 50, 100 |
| Auto-off interval(s) in battery mode/rechargeable battery mode    | 3 min           |
| Auto-off interval(s) in mains power mode                          | 3 min           |
| Tare function                                                     | manual (multi)  |
| Number of keys for operation                                      | 5               |

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**KERN**

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## Interface

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

## 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<br>UK<br>US<br>CH |
|---------------------------------------------------------------------------|------------------------|

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

|                                          |                         |
|------------------------------------------|-------------------------|
| Input voltage power supply / power [Max] | 220 V - 240 V AC, 50 Hz |
|------------------------------------------|-------------------------|

|                                    |           |
|------------------------------------|-----------|
| Input voltage device / power [Max] | 12 V, 1 A |
|------------------------------------|-----------|

|                                |                                                                          |
|--------------------------------|--------------------------------------------------------------------------|
| Power socket for mains adapter | Hollow plug inside minus, Ø outside 5,2 mm, Ø inside 1,7 mm, long 9,4 mm |
|--------------------------------|--------------------------------------------------------------------------|

|                            |      |
|----------------------------|------|
| Battery / accumulator type | NiCd |
|----------------------------|------|

|                      |        |
|----------------------|--------|
| Rechargeable battery | EG-A04 |
|----------------------|--------|

|                                                    |      |
|----------------------------------------------------|------|
| Rechargeable battery operating time - backlight on | 12 h |
|----------------------------------------------------|------|

|                                    |      |
|------------------------------------|------|
| Rechargeable battery charging time | 12 h |
|------------------------------------|------|

|                               |                         |
|-------------------------------|-------------------------|
| Rechargeable battery optional | Rchrg. battery optional |
|-------------------------------|-------------------------|

## Environmental conditions

|                           |       |
|---------------------------|-------|
| Ambient temperature [Min] | 10 °C |
|---------------------------|-------|

|                           |       |
|---------------------------|-------|
| Ambient temperature [Max] | 30 °C |
|---------------------------|-------|

|                               |      |
|-------------------------------|------|
| 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 | 963-103 |
|--------------------------------------|---------|

|                                              |         |
|----------------------------------------------|---------|
| Article number for certificate of conformity | 969-517 |
|----------------------------------------------|---------|

## Packing & Shipping

|               |     |
|---------------|-----|
| Delivery time | 1 d |
|---------------|-----|

|                              |                |
|------------------------------|----------------|
| Dimensions packaging (W×D×H) | 400×325×220 mm |
|------------------------------|----------------|

|                 |                |
|-----------------|----------------|
| Shipping method | Parcel service |
|-----------------|----------------|

|                    |        |
|--------------------|--------|
| Net weight approx. | 1,4 kg |
|--------------------|--------|

|                      |        |
|----------------------|--------|
| Gross weight approx. | 3,0 kg |
|----------------------|--------|

|                 |        |
|-----------------|--------|
| Shipping weight | 5,7 kg |
|-----------------|--------|

## Product information

|                 |               |
|-----------------|---------------|
| GTIN/EAN number | 4045761028883 |
|-----------------|---------------|

|                      |                          |
|----------------------|--------------------------|
| REACH classification | no prohibited substances |
|----------------------|--------------------------|

## Pictograms

### STANDARD



### OPTION

