

EJ NEWTON Series

Compact Balances



1mg Readability



10mg Readability



100mg Readability

COMPACT BALANCES

The EJ Newton Series

A new model with 1 mg resolution joins the EJ family of compact balances. Affordable and built-to-last, EJ Series balances are used in many applications including:

Industrial
Pharmacy
Education

With thousands of balances in laboratories and production facilities around the world, the EJ Series has provided years of reliable weighing performance and are backed by A&D's industry-leading 5 year warranty.

| Readability | Capacity | Model |
|-------------|----------|-------------------|
| 0.001 g | 120 g | EJ-123 NEW |
| 0.01 g | 120 g | EJ-120 |
| | 210 g | EJ-200 |
| | 310 g | EJ-300 |
| | 410 g | EJ-410 |
| | 610 g | EJ-610 |
| 0.1 g | 1500 g | EJ-1500 |
| | 2100 g | EJ-2000 |
| | 3100 g | EJ-3000 |
| | 4100 g | EJ-4100 |
| | 6100 g | EJ-6100 |

Affordable Precision

Now students, researchers and industrial users have a convenient and affordable way to make milligram measurements.

The EJ-123 has standard functions usually found in balances costing twice as much:

- Gravity correction
- Accumulation function
- GLP compliant output



EJ-123
(Draft shield standard)

The EJ-123 makes milligram measurements as easy as, well, 1-2-3:

1. Plug-in and warm-up the balance.
2. Level the balance by adjusting the feet.
3. Start weighing.

Options

EJ-02 & EJ-02C



Quick USB interface. Option EJ-02C includes USB cable.

EJ-03



RS-232C (serial) interface.

EJ-07 & EJ-08



Underhook. EJ-07 for EJ-3000 to 6100. EJ-08 for EJ-1500, EJ-2000.

EJ NEWTON SERIES

127 x 140 mm stainless steel weighing pan for EJ-1500 to EJ-6100.
110 mm round pan for EJ-610 & below.



EJ-11



Breeze break (draft shield) for all models except EJ-123.

EJ-12



Carrying case. All models except EJ-123.

EJ-13



Density determination kit for models EJ-120 to EJ-610.

EJ NEWTON SERIES SPECIFICATIONS

| Model | EJ-123 | EJ-120 | EJ-200 | EJ-300 | EJ-410 | EJ-610 | EJ-1500 | EJ-2000 | EJ-3000 | EJ-4100 | EJ-6100 |
|--------------------------------------|---|------------|------------|------------|------------|------------|----------------------|------------|------------|------------|------------|
| Weight capacity | 120 g | 120 g | 210 g | 310 g | 410 g | 610 g | 1500 g | 2100 g | 3100 g | 4100 g | 6100 g |
| Readability | 0.001 g | 0.01 g | 0.01 g | 0.01 g | 0.01 g | 0.01 g | 0.1 g | 0.1 g | 0.1 g | 0.1 g | 0.1 g |
| Repeatability (Std. deviation) | 0.003 g | 0.01 g | 0.01 g | 0.01 g | 0.01 g | 0.01 g | 0.1 g | 0.1 g | 0.1 g | 0.1 g | 0.1 g |
| Linearity | ±0.003 g | ±0.01 g | ±0.01 g | ±0.02 g | ±0.02 g | ±0.02 g | ±0.1 g | ±0.1 g | ±0.2 g | ±0.2 g | ±0.2 g |
| Sensitivity drift | ±20 ppm / °C (10°C-30°C / 50°F-86°F) | | | | | | | | | | |
| No. of samples | 5, 10, 25, 50 or 100 pieces | | | | | | | | | | |
| Max. count | 12,000 pcs | 12,000 pcs | 21,000 pcs | 31,000 pcs | 41,000 pcs | 61,000 pcs | 15,000 pcs | 21,000 pcs | 31,000 pcs | 41,000 pcs | 61,000 pcs |
| Min. unit weight | 0.001 g | 0.01 g | 0.01 g | 0.01 g | 0.01 g | 0.01 g | 0.1 g | | | | |
| Min. % display | 0.1% | | | | | | | | | | |
| Min. 100% weight | 1 g | | | | | | 10 g | | | | |
| Display | 7 segment LCD display with backlight (Character height 16 mm) | | | | | | | | | | |
| Display update | 10 times per second | | | | | | | | | | |
| Operating temp. | -10°C-40°C / 14°F-104°F, less than 85% R.H. (non-condensing) | | | | | | | | | | |
| Power supply | AC adapter (included) or 4 x "AA" size dry-cell batteries | | | | | | | | | | |
| Battery operation | Approximately 70 hours (backlight off, alkaline batteries) | | | | | | | | | | |
| Weighing pan size | 110 mm Ø | | | | | | 127 mm x 140 mm | | | | |
| Weight | Approximately 850 g | | | | | | Approximately 1100 g | | | | |
| Calibration weight (factory setting) | 100 g | 100 g | 200 g | 300 g | 400 g | 600 g | 1500 g | 2000 g | 3000 g | 4000 g | 6000 g |

Specifications subject to change without notice.

Units of Measure

| Model | EJ-123 | EJ-120 | EJ-200 | EJ-300 | EJ-410 | EJ-610 | EJ-1500 | EJ-2000 | EJ-3000 | EJ-4100 | EJ-6100 | |
|-------|--------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| N | Capacity | 1.1768 | 1.1768 | 2.0594 | 3.0401 | 4.0207 | 5.9821 | 14.710 | 20.594 | 30.401 | 40.207 | 59.821 |
| | Min. display | 0.0001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| oz | Capacity | 4.233 | 4.233 | 7.408 | 10.935 | 14.462 | 21.517 | 52.91 | 74.08 | 109.35 | 144.62 | 215.17 |
| | Min. display | 0.0001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| lb | Capacity | - | 0.246 | 0.4630 | 0.6834 | 0.9039 | 1.3448 | 3.307 | 4.630 | 6.834 | 9.039 | 13.448 |
| | Min. display | - | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| ozt | Capacity | 3.858 | 3.858 | 6.752 | 9.967 | 13.182 | 19.612 | 48.23 | 67.52 | 99.67 | 131.82 | 196.12 |
| | Min. display | 0.0001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| ct | Capacity | 600.00 | 600.00 | 1050.00 | 1550.00 | 2050.00 | 3050.00 | 7500.0 | 10500.0 | 15500.0 | 20500.0 | 30500.0 |
| | Min. display | 0.005 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| dwt | Capacity | 77.16 | 77.16 | 135.03 | 199.33 | 263.64 | 392.24 | 964.5 | 1350.3 | 1993.3 | 2636.4 | 3922.4 |
| | Min. display | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| GN | Capacity | 1851.8 | 1851.8 | 3240.8 | 4784.0 | 6327.2 | 9413.8 | 23148 | 32408 | 47840 | 63272 | 94138 |
| | Min. display | 0.02 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 2 | 2 | 2 | 2 | 2 |

Specifications subject to change without notice.

Options

| | |
|---------------|--|
| EJ-02C | USB interface with cable |
| EJ-03 | RS-232C interface |
| EJ-07 | Underhook for EJ-3000 to EJ-6100 |
| EJ-08 | Underhook for EJ-1500, EJ-2000 |
| EJ-11 | Breeze break (Draft Shield) |
| EJ-12 | Carrying case (except for EJ-123) |
| EJ-13 | Density determination kit for EJ-120/ EJ-200/EJ-300/EJ-410/EJ-610 |

Accessories

| | |
|----------------|--------------------------------|
| TB:163C | AC adapter 120V (Replacement) |
| TB:164 | AC adapter 240V (Round prongs) |



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