

MC Series As Precision Balances with Extended Resolution

“If only my balance displayed just one more digit...”

The MC Series, developed originally as mass comparators, display the weighing results with an extra decimal place not normally available for the given weighing capacity. The extended resolution enables measurements of minute weight changes with heavy objects or containers.

Equipped with an Internal Calibration Mass!



MC-10K



MC-6100

Example Applications

Management of Liquid Amounts

- Resist inks on flat panels (glass)
- Coating materials on silicon wafers
- Moisture contents of catalysts
- Solder pastes and sealing materials on electronic parts
- Resins used for LED lenses
- Surface materials on optical lenses
- Grease in miniature bearings for hard disks

Management of Gas Amounts

- Fill ration of hydrogen gas
- Gasified components

Management of Powder Amounts

- Medicines in pharmaceutical manufacturing – from full flow to minute flow
- Discharges (losses in weight) from feeders
- Wear volumes of metallic materials
- Cutting dust (contaminants) left on mechanical parts
- Particles caught by filters

Production Line Weighing

- As precision check-weighing sensors with wider ranges



All models in the MC Series



MC-1000/6100



MC-10K/30K



AND ...Clearly a Better Value
A&D Company, Limited
<http://www.aandd.jp>

MC Series As Precision Balances with Extended Resolution

Specifications

| | MC-1000 | MC-6100 | MC-10K | MC-30K |
|--|---|----------------|--------------------------------|-------------|
| Weighing capacity | 1100 g | 6100 g | 10.1 kg | 31 kg |
| Minimum weighing value | 0.0001 g | 0.001 g | | 0.01 g |
| Repeatability (Standard Deviation)*1 | 0.0005 g | 0.004 g | 0.005 g | 0.015 g |
| Linearity | ±0.003 g | ±0.03 g | ±0.03 g | ±0.2 g |
| Stabilization time (when set to FAST) | Approx. 1.5 seconds | | | |
| Sensitivity drift (10 °C to 30 °C) | ±2 ppm / °C | | | ±3 ppm / °C |
| Accuracy right after calibration using the internal mass*2 | ±0.010 g | ±0.15 g | | ±1.5 g |
| Operating temperature | 5 °C to 40 °C (41 °F to 104 °F), 85%RH or less (no condensation) | | | |
| Display refresh rate | 5 times / second or 10 times / second | | | |
| Standard interface | RS-232C | | | |
| Weighing pan size | 128 × 128 mm | 165 × 165 mm | 270 × 210 mm | |
| Power consumption | Approx. 11 VA (supplied to the AC adapter) | | | |
| External dimensions | 210 (W) × 317 (D) × 86 (H) mm | | 300 (W) × 355 (D) × 111 (H) mm | |
| Net weight | Approx. 4.6 kg | Approx. 5.1 kg | Approx. 9.3 kg | |
| Standard accessories | AC adapter, Instruction manual, Glass breeze break (MC-1000/6100) or Simple breeze break (MC-10K/30K), Protection cover, WinCT (CD-ROM) | | | |

*1 Repeatability when the auto-centering pan or an automatic loading machine is used under good ambient conditions.

*2 Accuracy right after calibration using the internal mass and the breeze break in good ambient conditions. The values are for the weighing capacities.

Options

For MC-1000/6100

GX-02*3 Quick USB interface with cable

GX-04*3*4 Comparator output with a buzzer / RS-232C / Current loop

GX-06*3*4 Analog voltage output / Current loop

GX-12 Animal weighing pan

GX-13 Density determination kit (for MC-1000 only)

*3 GX-02, GX-04, GX-06, and the standard RS-232C interface cannot be used at the same time.

*4 Factory-installed options

For MC-10K/30K

GX-04K*5 Comparator output with a buzzer / RS-232C / Current loop

GX-06K*5 Analog voltage output / Current loop

GX-07K Waterproof RS-232C cable (5 m)

GXX-012 Animal weighing pan

GXX-015 Carrying case

*5 GX-04K, GX-06K, and the standard RS-232C interface cannot be used at the same time. The MC-10K/30K are not IP65 compliant with these options.

Accessories

AD-1682 Rechargeable battery unit

AD-1683 Static eliminator

AD-1684 Electrostatic fieldmeter

AD-1688 Weighing data logger

AD-1689 Tweezers for calibration weight

AD-8121B Compact printer

AD-8920A Remote display

AD-8922A Remote controller

AD-8526 Serial/Ethernet converter

AD-8527 Quick USB adapter

AX-KO1710-200 RS-232C cable (25P-9P, 2 m)

AX-SW128 Foot switch

AX-USB-25P Serial/USB converter

AX-MC1000PAN Auto-centering pan (MC-1000)

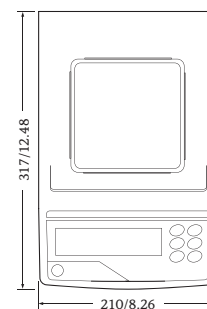
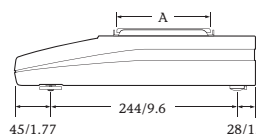
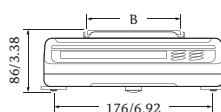
AX-MC6100PAN Auto-centering pan (MC-6100)

AX-MC10K/30KPAN Auto-centering pan (MC-10K / 30K)

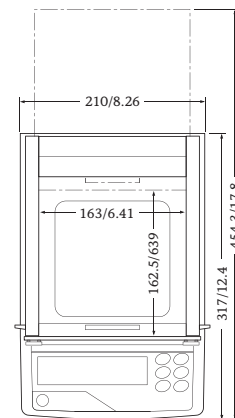
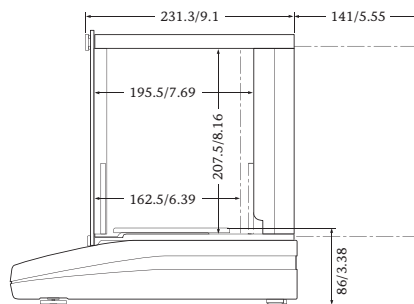
External Dimensions (mm/inches)

Pan size

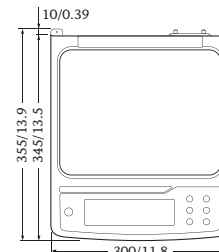
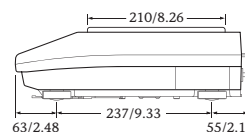
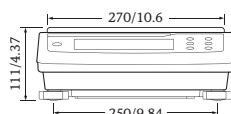
| Model | A | B |
|---------|------------|------------|
| MC-1000 | 128 / 5.04 | 128 / 5.04 |
| MC-6100 | 165 / 6.49 | 165 / 6.49 |



MC-1000/6100 with Glass Breeze Break



MC-10K/30K



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...Clearly a Better Value

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