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!

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

ISO 9000 CERTIFIED
A&D Company, Limited
http://www.aandd.jp

…Clearly a Better Value
MC Series As
Precision Balances with Extended Resolution

Specifications

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

For MC-1000/6100
GX-02*3 Quick USB interface with cable
GX-04*4 Comparator output with a buzzer / RS-232C / Current loop
GX-06*5 Comparator output with a buzzer / RS-232C / Current loop
GX-12 Animal weighing pan
GX-13 Density determination kit (for MC-1000 only)
GX-02, GX-04, GX-06, and the standard RS-232C interface cannot be used at the same time.
* Factory-installed options

For MC-10K/30K
GX-04K*3 Comparator output with a buzzer / RS-232C / Current loop
GX-06K Analog voltage output / Current loop
GX-12 Animal weighing pan
GX-15 Carrying case
GX-04, GX-06, 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-K01710-200 RS-232C cable (25P-9P, 2 m)
AX-5128 Foot switch
AX-USB-25P Serial/USB converter
AX-MC1000PAN Auto-centering pan (MC-1000)
AX-MC1000PAN Auto-centering pan (MC-1000)
AX-MC10K/30K Auto-centering pan (MC-10K / 30K)

External Dimensions (mm/Inches)

<table>
<thead>
<tr>
<th>Pan size</th>
<th>Model</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC-1000</td>
<td>128 / 5.04</td>
<td></td>
<td></td>
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<tr>
<td>MC-6100</td>
<td>165 / 6.49</td>
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MC-1000/6100 with Glass Breeze Break

MC-10K/30K

A&D Company, Limited
A&D INSTRUMENTS LTD.
A&D RUS CO., LTD.
A&D Instruments India Private Limited