120/120 Plus

Digital Weight Indicator

**STANDARD FEATURES**

120
- Large .8 in (20.3 mm) Light Emitting Diode (LED) Display
- Configurable analog to digital measurement rate
- Power for four 350Ω load cells
- Primary/secondary units configuration: lb, kg, ounces, grams
- Five-button operation
- Two independent communication ports: (1) full duplex, (1) unidirectional or active 20 mA current loop
- Standardized EDP command sets
- Programmable ticket format up to two 180-character printout
- Full front-panel digital calibration and configuration
- Tilt stand
- Three-stage digital filtering
- Consecutive transaction numbering
- Time and date (volatile)

120 Plus
- Large .8 in backlit LCD display
- Rechargeable battery and wall adapter
- Power save feature for 700 hours of battery life
- Ten stored tare values
- Display hold (based on 3 second average)
- Time and date

**SPECIFICATIONS**

**POWER:**
120/120 Plus:
- Line voltages: 115 or 230 VAC
- Frequency: 50 or 60 Hz
120 Plus: (estimated battery life)
- 60 hours with 1 x 350Ω
- 40 hours with 4 x 350Ω
- Charge time: 8 hours

**EXCITATION VOLTAGE:**
5 VDC, 4 x 350Ω or 8 x 700Ω load cells

**ANALOG SIGNAL INPUT RANGE:**
-0.6 mV/V - 3.0 mV/V

**ANALOG SIGNAL SENSITIVITY:**
0.3 µV/graduation minimum, 1.5 µV/grad recommended

**RESOLUTION:**
- Internal resolution: 1 million internal graduations
- Display resolution: 10,000 displayed graduations

**MEASUREMENT RATE:**
120: 30, 15, 7, 3 per second
120 Plus: 30 per second

**SYSTEM LINEARITY:**
Within 0.01% of full scale

**CIRCUIT PROTECTION:**
RFI, EMI, ESD protected

**LOAD CELL CONNECTION:**
Cord grip entry
Detachable plug (optional)

**SERIAL OUTPUT:**
- EDP port: Full duplex RS-232
- Printer port: Output-only RS-232 or active 20 mA current loop
- Both ports: 9600, 4800, 2400, 1200, 600, 300 bps; 7 or 8 data bits; even, odd or no parity

**DISPLAY:**
120:
- 0.8 in (20 mm), 6-digit Red Light Emitting Diode (LED) display, 7-segment digits
- 120 Plus:
- 0.8 in (20 mm) 6-digit LCD with backlight
- 7-segment digits

**STATUS ANNUNCIATORS:**
- Designators for: center of zero, stand still, gross, net, lb, kg, oz, g
- 120 Plus:
- *Battery, setpoint 1 & 2, Hold

**KEYBOARD:**
120:
- 5-key flat membrane panel, tactile feel
120 Plus:
- Zero, tare, present tare, hold, gross/net, units, numeric 0-9, clear, enter/print

**DIGITAL I/O:**
- 120 Plus: Requires option card
- 24 volt source
- 3 digital inputs
- 2 digital outputs

**OPERATING TEMPERATURE:**
- -10°C to 40°C/14°F to 104°F (legal)
- -10°C to 50°C/14°F to 122°F (industrial)

**WEIGHT:**
2.6 lb (1.2 kg)

**RATING/MATERIAL:**
- Enclosure: heavy gauge ABS

**120 AND 120 PLUS APPROVALS:**
- NTEP -10,000 Divisions, Class III/Ill,
- CC# 03-059A1, Measurement Canada AM-5517,
- Class III/IllD at 10,000 Divisions;
- OIML approved, TC 7028, TC7628; T 5692
- at 10,000 Divisions
- CE marked

**WARRANTY:**
- One-year limited warranty

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>7.32 in (186.3 mm)</td>
</tr>
<tr>
<td>B</td>
<td>6.06 in (154 mm)</td>
</tr>
<tr>
<td>C</td>
<td>3.74 in (95 mm)</td>
</tr>
</tbody>
</table>

Prices and specifications subject to change without notice. Visit ricelake.com for current prices.
## 120/120 Plus

**Digital Weight Indicator**

<table>
<thead>
<tr>
<th>PART #</th>
<th>DESCRIPTION</th>
<th>EST. SHIP WEIGHT</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>120</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>92769........</td>
<td>120, Desktop 115 VAC†</td>
<td>3 lb</td>
<td>Consult factory</td>
</tr>
<tr>
<td>92772........</td>
<td>120, Desktop 230 VAC, OIML/CE ‡</td>
<td>3 lb</td>
<td>Consult factory</td>
</tr>
<tr>
<td><strong>120 Plus</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>103632.......</td>
<td>120 Plus, Desktop 115/230 VAC†</td>
<td>3 lb</td>
<td>Consult factory</td>
</tr>
<tr>
<td>107619.......</td>
<td>120 Plus, Desktop 115/230 VAC† with digital I/O option</td>
<td>3 lb</td>
<td>Consult factory</td>
</tr>
</tbody>
</table>

**OPTIONS/ACCESSORIES**

<table>
<thead>
<tr>
<th>PART #</th>
<th>DESCRIPTION</th>
<th>EST. SHIP WEIGHT</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>93205........</td>
<td>Load cell connector with 6 meter length pigtail (requires 103507)</td>
<td></td>
<td>Consult factory</td>
</tr>
<tr>
<td>82505........</td>
<td>6-pin socket external load cell connector (requires 103507)</td>
<td></td>
<td>Consult factory</td>
</tr>
<tr>
<td>103507........</td>
<td>External load cell plug replaces cord grip (requires 82505 or cable 93205)</td>
<td></td>
<td>Consult factory</td>
</tr>
<tr>
<td>107620.......</td>
<td>Digital I/O card for 120 Plus</td>
<td></td>
<td>Consult factory</td>
</tr>
<tr>
<td>105670.......</td>
<td>15 Pin connector for 120 Plus</td>
<td></td>
<td>Consult factory</td>
</tr>
<tr>
<td>106705.......</td>
<td>Interface cable for 120 Plus, 2-meter length</td>
<td></td>
<td>Consult factory</td>
</tr>
<tr>
<td>76699........</td>
<td>Additional operating manual for 120</td>
<td></td>
<td>Consult factory</td>
</tr>
<tr>
<td>105914.......</td>
<td>Additional operating manual for 120 Plus</td>
<td></td>
<td>Consult factory</td>
</tr>
<tr>
<td>77925........</td>
<td>Revolution III Scale Software*</td>
<td></td>
<td>Consult factory</td>
</tr>
<tr>
<td>78609........</td>
<td>Board assembly for use with external LC connector</td>
<td></td>
<td>Consult factory</td>
</tr>
<tr>
<td>96293........</td>
<td>Board assembly for use with internal LC connector</td>
<td></td>
<td>Consult factory</td>
</tr>
<tr>
<td>78610.......</td>
<td>Overlay membrane switch</td>
<td></td>
<td>Consult factory</td>
</tr>
<tr>
<td>78611.......</td>
<td>Power supply, 115 VAC</td>
<td></td>
<td>Consult factory</td>
</tr>
<tr>
<td>78612.......</td>
<td>Power supply, 230 VAC (2-pin Europe)</td>
<td></td>
<td>Consult factory</td>
</tr>
</tbody>
</table>

**Primary Component Parts for 120**

<table>
<thead>
<tr>
<th>PART #</th>
<th>DESCRIPTION</th>
<th>EST. SHIP WEIGHT</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>103634.......</td>
<td>CPU/Display board assembly</td>
<td></td>
<td>Consult factory</td>
</tr>
<tr>
<td>103635.......</td>
<td>Overlay membrane switch</td>
<td></td>
<td>Consult factory</td>
</tr>
<tr>
<td>103636.......</td>
<td>Power supply, 115 VAC/230 VAC</td>
<td></td>
<td>Consult factory</td>
</tr>
<tr>
<td>103637.......</td>
<td>Rechargeable Battery</td>
<td></td>
<td>Consult factory</td>
</tr>
</tbody>
</table>

* Revolution III can be downloaded for FREE at www.ricelake.com

External load cell plug replaces cord grip

![CEE 7/7 plug](CEE 7/7 plug)  ![NEMA 5-15 plug](NEMA 5-15 plug)