**3 mV/V OUTPUT CANISTER LOAD CELLS**

**STAINLESS STEEL**

Tension/Compression
Calibrated in Tension†

**LC1102** (Cable Style)
**LC1112** (Connector Style)
0-50 lb to 0-100,000 lb
0-23 kg to 0-45,372 kg

1 Newton = 0.2248 lb
1 daNewton = 10 Newtons
1 lb = 454 g
1 t = 1000 kg = 2204 lb

† Ranges ≥ 100,000 lb calibrated in compression.

**LC1102/LC1112 Series**

![Image of LC1102-5K, shown smaller than actual size, see next page for dimensions.]

- 5-Point Calibration Included
- Dual-Bridge Models Available
- High Accuracy

To Order Visit omega.com/lc1102 for Pricing and Details

<table>
<thead>
<tr>
<th>CAPACITY</th>
<th>CABLE STYLE</th>
<th>CONNECTOR STYLE</th>
<th>COMPATIBLE METERS**</th>
<th>LOAD BUTTON MODEL</th>
<th>ROD END MODEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>lb</td>
<td>kg</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>23</td>
<td>LC1102-50</td>
<td>LC1112-50</td>
<td>DP41-B, DP41-S, DP25B-S</td>
<td>LBC-038</td>
</tr>
<tr>
<td>100</td>
<td>45</td>
<td>LC1102-100</td>
<td>LC1112-100</td>
<td>DP41-B, DP41-S, DP25B-S</td>
<td>LBC-038</td>
</tr>
<tr>
<td>300</td>
<td>136</td>
<td>LC1102-300</td>
<td>LC1112-300</td>
<td>DP41-B, DP41-S, DP25B-S</td>
<td>LBC-038</td>
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<tr>
<td>500</td>
<td>227</td>
<td>LC1102-500</td>
<td>LC1112-500</td>
<td>DP41-B, DP41-S, DP25B-S</td>
<td>LBC-012</td>
</tr>
<tr>
<td>1000</td>
<td>455</td>
<td>LC1102-1K</td>
<td>LC1112-1K</td>
<td>DP41-B, DP41-S, DP25B-S</td>
<td>LBC-012</td>
</tr>
<tr>
<td>2000</td>
<td>909</td>
<td>LC1102-2K</td>
<td>LC1112-2K</td>
<td>DP41-B, DP41-S, DP25B-S</td>
<td>LBC-012</td>
</tr>
<tr>
<td>5000</td>
<td>2269</td>
<td>LC1102-5K</td>
<td>LC1112-5K</td>
<td>DP41-B, DP41-S, DP25B-S</td>
<td>LBC-100</td>
</tr>
<tr>
<td>10,000</td>
<td>4537</td>
<td>LC1102-10K</td>
<td>LC1112-10K</td>
<td>DP41-B, DP41-S, DP25B-S</td>
<td>LBC-100</td>
</tr>
<tr>
<td>15,000</td>
<td>6806</td>
<td>LC1102-15K</td>
<td>LC1112-15K</td>
<td>DP41-B, DP41-S, DP25B-S*</td>
<td>LBC-100</td>
</tr>
<tr>
<td>20,000</td>
<td>9074</td>
<td>LC1102-20K</td>
<td>LC1112-20K</td>
<td>DP41-B, DP41-S, DP25B-S*</td>
<td>LBC-112</td>
</tr>
<tr>
<td>25,000</td>
<td>11,343</td>
<td>LC1102-25K</td>
<td>LC1112-25K</td>
<td>DP41-B, DP41-S, DP25B-S*</td>
<td>LBC-112</td>
</tr>
<tr>
<td>50,000</td>
<td>22,686</td>
<td>LC1102-50K††</td>
<td>LC1112-50K††</td>
<td>DP41-B, DP41-S, DP25B-S*</td>
<td>LBC-200-12</td>
</tr>
<tr>
<td>100,000</td>
<td>45,372</td>
<td>LC1102-100K††</td>
<td>LC1112-100K††</td>
<td>DP41-B, DP41-S, DP25B-S*</td>
<td>LBC-300-8</td>
</tr>
</tbody>
</table>

Comes complete with 5-point NIST-traceable calibration. ††Special quote. * 4-digit meter, counts by 10. ** See omega.com for compatible meters.

To order a dual bridge version, add suffix “-DUAL” to model number. See omega.com for pricing.

To order unit with integral connector, specify LC1112, no extra charge. PT06F10-6S, mating connector (sold separately).

Ordering Examples:
- LC1102-100K, 100,000 lb capacity load cell.
- LC1112-5K, 5000 lb capacity load cell with integral connector.
- PT06F10-6S, mating connector (sold separately).
- LC1102-100-DUAL, dual-output 100 lb capacity load cell.

**ACCESSORY**

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT06F10-6S</td>
<td>Mating connector for LC1112 series load cells</td>
</tr>
</tbody>
</table>

F-102
HIGH-OUTPUT UNIVERSAL CANISTER LOAD CELLS

SPECIFICATIONS

Output: 3 mV/V ±0.25% FSO
Excitation: 10 Vdc (15V maximum)
Accuracy Class: ±0.05% FSO
Linearity: ±0.05% FSO
Hysteresis: ±0.02% FSO
Repeatability: ±0.02% FSO
Zero Balance: ±1.0% FSO
Operating Temp Range: -24 to 79°C (-30 to 175°F)
Compensated Temp Range: 16 to 71°C (60 to 160°F)
Thermal Effects:
  Zero: ±0.003% FSO/°C
  Span: ±0.014% rdg/°C
Protection Class: IP67
Safe Overload: 150% of capacity
Ultimate Overload: 300% of capacity
Bridge Resistance: 350 Ω
Full Scale Deflection: 0.08 to 0.13 mm (0.003 to 0.005") typical.

Construction: Stainless steel
Electrical: 4.6 m (15") 4-conductor shielded color-coded cable

POPULAR OPTIONS

(Additional Cost)
0 to 5 Vdc Output "5V"
Overload Stops: "-OL"
Dual Bridge:
  ≤2000 kg "-DUAL"
  >2000 kg "-DUAL"
Extended Temperature Range:
  -45 to 93°C (-50 to 200°F) "-TC1"
  -45 to 177°C (-50 to 350°F) "-TC2"
Watertight Cable Exit: "-WTC"

Additional Cable Length Available
Note: 100,000 lb capacity load cells are supplied with 2 eyebolts for easy handling.

Dimensions: mm (inch)

<table>
<thead>
<tr>
<th>CAPACITY</th>
<th>A (inch)</th>
<th>B (inch)</th>
<th>D (inch)</th>
<th>E (inch)</th>
<th>G (inch)</th>
<th>T (inch)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 to 300 lb</td>
<td>23 to 136 kg</td>
<td>89 (3.5)</td>
<td>114 (4.50)</td>
<td>22 (0.87)</td>
<td>6.4 (0.25)</td>
<td>76 (3.00)</td>
</tr>
<tr>
<td>500 to 3000 lb</td>
<td>227 to 1361 kg</td>
<td>89 (3.5)</td>
<td>116 (4.56)</td>
<td>38 (1.5)</td>
<td>6.4 (0.25)</td>
<td>32 (1.25)</td>
</tr>
<tr>
<td>5000 to 15,000 lb</td>
<td>2269 to 6806 kg</td>
<td>89 (3.5)</td>
<td>151 (5.94)</td>
<td>33 (1.3)</td>
<td>9.7 (0.38)</td>
<td>71 (1.81)</td>
</tr>
<tr>
<td>20,000 to 30,000 lb</td>
<td>9074 to 13,612 kg</td>
<td>114 (4.5)</td>
<td>216 (8.5)</td>
<td>58 (2.3)</td>
<td>13 (0.50)</td>
<td>197 (2.81)</td>
</tr>
<tr>
<td>50,000 lb</td>
<td>22,686 kg</td>
<td>168 (6.63)</td>
<td>291 (11.44)</td>
<td>71 (2.8)</td>
<td>16 (0.62)</td>
<td>81 (3.19)</td>
</tr>
<tr>
<td>100,000 lb</td>
<td>13,612 kg</td>
<td>219 (8.63)</td>
<td>451 (17.75)</td>
<td>102 (4.0)</td>
<td>29 (1.13)</td>
<td>125 (4.94)</td>
</tr>
</tbody>
</table>