**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**

- ✔ 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>
</tr>
<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-R, 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-R, 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-R</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**
- **Overload Stops:** “5V”
- **Dual Bridge:**
  - ≤2000 kg “-DUAL”
  - >2000 kg “-DUAL”
- **Extended Temperature Range:**
  - ≤-45°C “-TC1”
  - ≤20°F (-50 to 200°F)
  - ≤177°C “-TC2”
  - ≤350°F (-50 to 350°F)
- **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</th>
<th>B</th>
<th>D</th>
<th>E</th>
<th>G</th>
<th>T</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 to 300 lb</td>
<td>23</td>
<td>136</td>
<td>89</td>
<td>114</td>
<td>22</td>
<td>6.4</td>
</tr>
<tr>
<td>500 to 3000 lb</td>
<td>227</td>
<td>1361</td>
<td>89</td>
<td>116</td>
<td>38</td>
<td>6.4</td>
</tr>
<tr>
<td>5000 to 15,000 lb</td>
<td>2269</td>
<td>6806</td>
<td>89</td>
<td>151</td>
<td>33</td>
<td>9.7</td>
</tr>
<tr>
<td>20,000 to 30,000 lb</td>
<td>9074</td>
<td>13,612</td>
<td>114</td>
<td>216</td>
<td>58</td>
<td>13</td>
</tr>
<tr>
<td>50,000 lb</td>
<td>22,686</td>
<td>168</td>
<td>291</td>
<td>71</td>
<td>16</td>
<td>81</td>
</tr>
<tr>
<td>100,000 lb</td>
<td>13,612</td>
<td>219</td>
<td>168</td>
<td>291</td>
<td>125</td>
<td>4.6</td>
</tr>
</tbody>
</table>

- **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

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

**POPULAR OPTIONS**

(Additional Cost)
- **0 to 5 Vdc Output**
- **Overload Stops:** “5V”
- **Dual Bridge:**
  - ≤2000 kg “-DUAL”
  - >2000 kg “-DUAL”
- **Extended Temperature Range:**
  - ≤-45°C “-TC1”
  - ≤20°F (-50 to 200°F)
  - ≤177°C “-TC2”
  - ≤350°F (-50 to 350°F)
- **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</th>
<th>B</th>
<th>D</th>
<th>E</th>
<th>G</th>
<th>T</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 to 300 lb</td>
<td>23</td>
<td>136</td>
<td>89</td>
<td>114</td>
<td>22</td>
<td>6.4</td>
</tr>
<tr>
<td>500 to 3000 lb</td>
<td>227</td>
<td>1361</td>
<td>89</td>
<td>116</td>
<td>38</td>
<td>6.4</td>
</tr>
<tr>
<td>5000 to 15,000 lb</td>
<td>2269</td>
<td>6806</td>
<td>89</td>
<td>151</td>
<td>33</td>
<td>9.7</td>
</tr>
<tr>
<td>20,000 to 30,000 lb</td>
<td>9074</td>
<td>13,612</td>
<td>114</td>
<td>216</td>
<td>58</td>
<td>13</td>
</tr>
<tr>
<td>50,000 lb</td>
<td>22,686</td>
<td>168</td>
<td>291</td>
<td>71</td>
<td>16</td>
<td>81</td>
</tr>
<tr>
<td>100,000 lb</td>
<td>13,612</td>
<td>219</td>
<td>168</td>
<td>291</td>
<td>125</td>
<td>4.6</td>
</tr>
</tbody>
</table>