19 mm (0.75”) DIAMETER SUBMINIATURE TENSION OR COMPRESSION LOAD CELLS
STANDARD AND METRIC MODELS

Tension/Compression
Calibrated in Tension
0-25 lb to 0-300 lb
0-100 to 0-500 N
1 Newton = 0.2248 lb
1 daNewton = 10 Newtons
1 lb = 454 g
1 t = 1000 kg = 2204 lb

LC201/LCM201 Series

- Subminiature Package for Robotic Applications, 19 mm (0.75”) Diameter
- Dual Mounting Studs for Easy Installation
- 5-Point Calibration Provided

Omega’s LC201/LCM201 Series subminiature load cells are designed for the demanding environment of industrial automation and robotics. With a diameter of only 19 mm (0.75”) and all stainless steel construction, they can fit into small systems. They deliver high accuracy and long-term reliability in a subminiature package.

SPECIFICATIONS
Excitation: 10 Vdc, 15 Vdc max
Output: 2 mV/V nominal
Accuracy: ±1.0% FSO linearity, hysteresis, repeatability combined
5-Point Calibration (in Tension): 0%, 50%, 100%, 50%, 0%
Zero Balance: ±2% FSO
Operating Temp Range: -54 to 121°C (-65 to 250°F)
Compensated Temp Range: 16 to 71°C (60 to 160°F)
Protection Class: IP54

Thermal Effects:
Zero: 0.018% FSO/°C
Span: 0.018% FSO/°C
Safe Overload: 150% of capacity
Ultimate Overload: 300% of capacity
Input Resistance: 360 Ω minimum
Output Resistance: 350 ±10 Ω
Construction: Stainless steel
Electrical: 1.5 m (5') 4-conductor shielded cable with compensation board

STANDARD MODELS

<table>
<thead>
<tr>
<th>CAPACITY</th>
<th>lb</th>
<th>N</th>
<th>MODEL NO.</th>
<th>COMPATIBLE METERS</th>
<th>ROD END</th>
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<tr>
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<td>111</td>
<td>LC201-25</td>
<td>DP41-S, DP25B-S</td>
<td>REC-014F</td>
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<td>334</td>
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METRIC MODELS

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<th>N</th>
<th>MODEL NO.</th>
<th>COMPATIBLE METERS</th>
<th>ROD END</th>
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<tr>
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<td>500</td>
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<td>LCM201-500N</td>
<td>DP41-S, DP25B-S</td>
<td>MREC-M6F</td>
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</tbody>
</table>

Comes complete with 5-point NIST traceable calibration and 59 kΩ shunt data.
Ordering Examples: LC201-25, 25 lb capacity subminiature universal load cell.
LCM201-500N, 500 N capacity subminiature universal load cell.