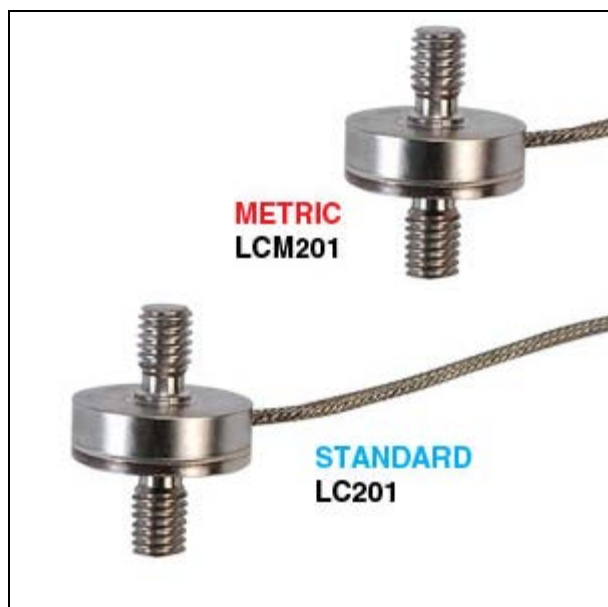


## Subminiature Tension and Compression Load Cell, 0.75" Diameter

### LC201



- ✓ 5-Point NIST Traceable Calibration Provided
- ✓ Subminiature Package for Robotic Applications, 0.75" (19 mm) Diameter
- ✓ 0-25 to 0-300 lb Ranges Available
- ✓ Dual Mounting Studs for Easy Installation
- ✓ 59 kOhm Shunt Cal Data Included

NEWPORT's LC201 Series subminiature load cell is designed for the demanding environment of industrial automation and robotics. With a diameter of only 0.75" (19 mm) and all stainless steel construction, it can fit into small systems and survive harsh environments. The LC201 delivers high accuracy and long term reliability in a subminiature package.

**The LC 201 is also available in metric configurations, with ranges from 0-100 to 0-500 N and metric threads. Please contact our Pressure department for more information.**

### SPECIFICATIONS

**Excitation:** 10 Vdc, 15 Vdc max

**Output:** 2 mV/V nominal

**Accuracy:**  $\pm 1.0\%$  FSO linearity, hysteresis, repeatability combined

**5-Point Calibration (in Tension):** 0%, 50%, 100%, 50%, 0%

**Zero Balance:**  $\pm 2\%$  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  $\Omega$  minimum

**Output Resistance:** 350  $\pm 10$   $\Omega$

**Construction:** Stainless steel

**Electrical:** 1.5 m (5') 4-conductor shielded cable with compensation board

<b>Product Selection</b> (Specify Model Number)		
<b>Part Number</b>	<b>Description</b>	<b>Qty.</b>
LC201-25	Sub-miniature tension compression load cell, 25 lb	
LC201-50	Sub-miniature tension compression load cell, 50 lb	
LC201-75	Sub-miniature tension compression load cell, 75 lb	
LC201-100	Sub-miniature tension compression load cell, 100 lb	
LC201-300	Sub-miniature tension compression load cell, 300 lb	
<b>Accessories &amp; Compatible Meters</b>		
REC-014F	Swivel Rod End for all ranges	
DP25B-S	4-Digit strain meter with excitation	
DP41-S	6-Digit strain meter with excitation	
DMD-465	Bipolar strain amplifier	
DMD4059	DIN Rail Mount Unipolar Strain Signal Conditioner	

**Note:** All LC201 load cells include a 5 point NIST traceable calibration certificate.