

# 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

**STANDARD**  
LC201-50,  
shown larger  
than actual size.

**METRIC**  
LCM201-200N,  
shown larger than  
actual size.

## LC201/LCM201 Series



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

### Thermal Effects:

Zero: 0.018% FSO/°C

Span: 0.018% FSO/°C

**Safe Overload:** 150% of capacity

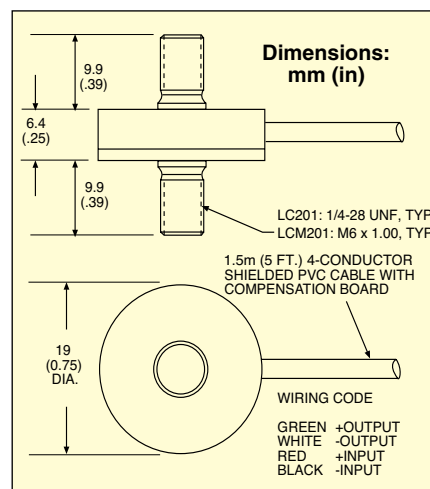
**Ultimate Overload:** 300% of capacity

**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



TRODEX'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

## STANDARD MODELS

To Order				
CAPACITY		MODEL NO.	COMPATIBLE METERS	ROD END
lb	N			
25	111	LC201-25	DP41-S, DP25B-S	REC-014F
50	222	LC201-50	DP41-S, DP25B-S	REC-014F
75	334	LC201-75	DP41-S, DP25B-S	REC-014F
100	445	LC201-100	DP41-S, DP25B-S	REC-014F
300	1334	LC201-300	DP41-S, DP25B-S	REC-014F

## METRIC MODELS

CAPACITY		MODEL NO.	COMPATIBLE METERS	ROD END
N	lb			
100	22	LCM201-100N	DP41-S, DP25B-S	MREC-M6F
200	45	LCM201-200N	DP41-S, DP25B-S	MREC-M6F
300	67	LCM201-300N	DP41-S, DP25B-S	MREC-M6F
500	112	LCM201-500N	DP41-S, DP25B-S	MREC-M6F

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.