

Miniature Universal Load Cells, Stud Mount Style, 1" to 1.38" Diameter LC202



- ✓ Miniature Package for Test Stands and Difficult Locations
- ✓ Rugged, Heavy Duty Construction
- ✓ Dual Mounting Studs for Easy Installation
- ✓ 5-Point Calibration with 59 kOhm Shunt Cal Data

NEWPORT's LC202 Series Load Cell offers the designer a compact series with ranges from 50 lb to 10,000 lb and accuracy of 0.25%. The all stainless steel construction and rugged design assure long life in industrial and commercial applications.

The LC202 is also available in metric configurations, with ranges from 0-100 to 0-50,000 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: $\pm 0.25\%$ FSO (linearity, hysteresis, repeatability combined)

5-Point Calibration: 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)

Thermal Effects:

Zero: 0.009% FSO/°C

Span: 0.009% 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 cable

Protection Class: IP65

Product Selection (Specify Model Number, see variations below in partnumber builder table)

Part Number	Description	Qty.
LC202-50	0-50 lb miniature tension and compression load cell	
LC202-100	0- 100 lb miniature tension and compression load cell	
LC202-300	0- 300 lb miniature tension and compression load cell	
LC202-500	0- 500 lb miniature tension and compression load cell	
LC202-1K	0- 1,000 lb miniature tension and compression load cell	
LC202-2K	0- 2,000 lb miniature tension and compression load cell	
LC202-3K	0- 3,000 lb miniature tension and compression load cell	
LC202-5K	0- 5,000 lb miniature tension and compression load cell	
LC202-7.5K	0-7,500 lb miniature tension and compression load cell	
LC202-10K	0-10,000 lb miniature tension and compression load cell	

Accessories

REC-010F	Swivel Rod End for 50 to 500 lb ranges
REC-014F	Swivel Rod End for 1000 lb range
REC-038F	Swivel Rod End for 2000 to 3000 lb ranges
REC-012F	Swivel Rod End for 4000 to 5000 lb ranges
REC-034F	Swivel Rod End for 7500 to 10,000 lb ranges

Compatible Meters

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 LC202 Series load cells include a 5 point NIST traceable calibration certificate.

Part Number Builder

(1)

LC202- 50

Option Descriptions

(1)

Select

50 for 50 lb range

100 for 100 lb range

300 for 300 lb range

500 for 500 lb range

1K for 1000 lb range

2K for 2000 lb range

3K for 3000 lb range

4K for 4000 lb range

5K for 5000 lb range

7.5K for 7500 lb range

10K for 10000 lb range

NOTE: All combinations may not be valid, check spec sheet for valid part numbers.