

Miniature Load Cells 2" Diameter, Dual Stud Mount Style LC203 and LC213 Series



- ✓ 5-Point NIST Traceable Calibration with 59 kOhm Shunt Cal Data
- ✓ High Accuracy
- ✓ 0.25% Interchangeability for Scale Applications
- ✓ Hermetically Sealed
- ✓ Miniature Package for Test Stands and Difficult Locations
- ✓ Rugged, Heavy Duty Construction
- ✓ LC203 Cable Style, LC213 Connector Style
- ✓ LCM203 Metric Cable Style, LCM213 Metric Connector Style
- ✓ See Related Links Below for Cables and Accessories

NEWPORT's LC203 Series is a high accuracy, miniature, low profile industrial load cell. It is supplied with a stud at each end for easy in-line mounting. The tough, corrosion resistant steel construction and high accuracy strain gages make them suitable for most industrial weighing applications.

The LC203 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 $\pm 0.25\%$

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

Linearity: $\pm 0.15\%$ FSO

Hysteresis: $\pm 0.1\%$ FSO

Repeatability: $\pm 0.05\%$ FSO

Zero Balance: $\pm 2\%$ FSO

Deflection: 0.025 to 0.075 mm (0.001 to 0.003")

Protection Class: IP65

Operating Temp Range: -46 to 107°C (-50 to 225°F)

Compensated Temp Range: 16 to 71°C (60 to 160°F)

Thermal Effects:

Zero: 0.006% 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 $\pm 10 \Omega$
Construction: Stainless steel
Electrical: 3 m (10') 4-conductor PVC shielded cable
LC213/LCM213 Mating Connector: PT06F10-6S, sold separately

Product Selection (Specify Model Number, see variations below in partnumber builder table)		
Part Number	Description	Qty.
Cable Style --- 3 m (10 ft) cable		
LC203-25	25 lb Capacity Load Cell	
LC203-50	50 lb Capacity Load Cell	
LC203-100	100 lb Capacity Load Cell	
LC203-200	200 lb Capacity Load Cell	
LC203-300	300 lb Capacity Load Cell	
LC203-500	500 lb Capacity Load Cell	
LC203-1K	1,000 lb Capacity Load Cell	
LC203-2K	2,000 lb Capacity Load Cell	
LC203-2.5K	2,500 lb Capacity Load Cell	
LC203-5K	5,000 lb Capacity Load Cell	
LC203-8K	8,000 lb Capacity Load Cell	
LC203-10K	10,000 lb Capacity Load Cell	
Connector Style --- Mating connector sold separately		
LC213-25	25 lb Capacity Load Cell, Connector Style	
LC213-50	50 lb Capacity Load Cell, Connector Style	
LC213-100	100 lb Capacity Load Cell, Connector Style	
LC213-200	200 lb Capacity Load Cell, Connector Style	
LC213-300	300 lb Capacity Load Cell, Connector Style	
LC213-500	500 lb Capacity Load Cell, Connector Style	
LC213-1K	1,000 lb Capacity Load Cell, Connector Style	

LC213-2K	2,000 lb Capacity Load Cell, Connector Style
LC213-2.5K	2,500 lb Capacity Load Cell, Connector Style
LC213-5K	5,000 lb Capacity Load Cell, Connector Style
LC213-8K	8,000 lb Capacity Load Cell, Connector Style
LC213-10K	10,000 lb Capacity Load Cell, Connector Style
Accessories and Compatible Meters	
PT06F10-6S	Mating connector for LC213
CA-4PC24-2-015	15 foot 4 wire cable assembly for LC213 load cells (not included)
REC-012F	Swivel Rod End for all ranges
DMD-465	Bipolar Strain Amplifier
DMD4059	Unipolar DIN rail mount strain signal conditioner
DP25B-S	4-Digit strain meter with excitation
DP41-S	6-Digit strain meter with excitation
	

Note: All LC203 Series load cells include a 5 point NIST traceable calibration certificate.
LC213 Mating Connector: PT06F10-6S (not included)

Part Number Builder

LC

(1)

203

-

(2)

25

Option Descriptions

(1)

Cable or Connector Style

Select

203 for Cable Style

213 for Connector Style

(2)

Select

25 for 25 lb range

50 for 50 lb range

100 for 100 lb range

200 for 200 lb range

300 for 300 lb range

350 for 350 lb range

400 for 400 lb range
500 for 500 lb range
750 for 750 lb range
1K for 1000 lb range
1.5K for 1500 lb range
2K for 2000 lb range
2.5K for 2500 lb range
5K for 5000 lb range
8K for 8000 lb range
10K for 10000 lb range

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