

High Accuracy Miniature Universal Load Cells, Surface Mount 2" Diameter

LC204



- ✓ 5-Point NIST Traceable Calibration with 59 kOhm Shunt Cal Data
- ✓ 0.25% Interchangeability for Scale Applications
- ✓ Miniature Package for Test Stands and Difficult Locations
- ✓ Designed to Be Mounted on a Flat Surface
- ✓ See Related Links Below for Cables and Accessories

NEWPORT's LC204 Series Load Cell is designed to be surface mounted with the load applied through the mounting stud. The high linearity (0.15%) and all stainless steel construction of the LC204 make it ideal for industrial and commercial weighing and force measuring applications.

The LC204 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

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

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

Protection Class: IP65

Thermal Effects:

Zero: 0.0045% FSO/°F

Span: 0.009% FSO/°F

Safe Overload: 150% of capacity

Ultimate Overload: 300% of capacity

Input Resistance: 360 Ω minimum

Output Resistance: 350 \pm 10 Ω


Construction: Stainless steel

Electrical: 3 m (10') 4-conductor shielded cable

LC214/LCM214 Mating Connector: PT06F10-6S, sold separately

Product Selection (Specify Model Number, see variations below in partnumber builder table)		
Part Number	Description	Qty.
Cable Style --- 3m (10 ft) Cable		
LC204-25	25 lb capacity surface mount universal load cell	
LC204-50	50 lb capacity surface mount universal load cell	
LC204-100	100 lb capacity surface mount universal load cell	
LC204-200	200 lb capacity surface mount universal load cell	
LC204-500	500 lb capacity surface mount universal load cell	
LC204-1K	1,000 lb capacity surface mount universal load cell	
LC204-2.5K	2,500 lb capacity surface mount universal load cell	
LC204-5K	5,000 lb capacity surface mount universal load cell	
LC204-5K-TC2	5,000 lb capacity surface mount universal load cell with high temperature compenstation 350°F	
LC204-8K	8,000 lb capacity surface mount universal load cell	
LC204-10K	10,000 lb capacity surface mount universal load cell	
Connector Style --- Mating Connector Sold Separately		
LC214-25	25 lb capacity surface mount universal load cell, connector style	
LC214-50	50 lb capacity surface mount universal load cell, connector style	
LC214-100	100 lb capacity surface mount universal load cell, connector style	
LC214-200	200 lb capacity surface mount universal load cell, connector style	
LC214-300	300 lb capacity surface mount universal load cell, connector style	
LC214-500	500 lb capacity surface mount universal load cell, connector style	
LC214-1K	1000 lb capacity surface mount universal load cell, connector style	
LC214-2K	2000 lb capacity surface mount universal load cell, connector style	
LC214-2.5K	2500 lb capacity surface mount universal load cell, connector style	
LC214-5K	5000 lb capacity surface mount universal load	

LC214-8K	cell, connector style 8000 lb capacity surface mount universal load cell, connector style
LC214-10K	10,000 lb capacity surface mount universal load cell, connector style
Accessories & Compatible Meters	
PT06F10-6S	Mating Connector for LC214
CA-4PC24-2-015	15 foot 4 wire cable assembly for LC214 load cells
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


Add

Part Number Builder

(1) (2)
LC 204 - 25

Option Descriptions

(1) Cable or Connector Style

Select

204 for Cable Style

214 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.