

S-Beam Load Cells, High Accuracy, Rugged for Industrial Applications

LCR Series Load Cell



- ✓ High Accuracy Industrial Applications
- ✓ 5-Point NIST Traceable Calibration (in Tension) Included
- ✓ 0.25% Interchangeability
- ✓ Lightweight Aluminum Construction Ranges to 1000 lb
- ✓ Rugged Stainless Steel on Upper Ranges
- ✓ Load Buttons and Rod Ends Available

SPECIFICATIONS

Excitation: 10 Vdc, 15 V max

Output: 3 mV/V $\pm 0.25\%$

Calibration: 5 point in tension (0%, 50%, 100%, 50%, 0%)

Linearity: $\pm 0.03\%$

Hysteresis: $\pm 0.02\%$

Repeatability: $\pm 0.01\%$

Creep (20 min): $\pm 0.03\%$

Operating Temperature: -18 to 71°C (0 to 150°F)

Compensated Temperature: 17 to 71°C (60 to 160°F)

Thermal Effects:

Zero: $\pm 0.0027\%$ FS/°C

Span: $\pm 0.0015\%$ rdg/°C

Safe Overload: 150% of capacity

Ultimate Overload: 300% of capacity

Bridge Resistance: 350 Ω nominal

Protection Level: IP55

Material:

≤ 1000 lb Ranges: Aluminum

> 1000 lb Ranges: 17-4 PH SS

Electrical Connection: 6 m (20')

Wiring:

Red: (+) Excitation

Black: (-) Excitation

Green: (+) Output

White: (-) Output

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

Part Number	Description	Qty.
LCR-25	Rugged S-Beam load cell, 25 pound capacity	
LCR-50	Rugged S-Beam load cell, 50 pound capacity	
LCR-100	Rugged S-Beam load cell, 100 pound capacity	
LCR-150	Rugged S-Beam load cell, 150 pound capacity	
LCR-200	Rugged S-Beam load cell, 200 pound capacity	
LCR-250	Rugged S-Beam load cell, 250 pound capacity	
LCR-500	Rugged S-Beam load cell, 500 pound capacity	
LCR-750	Rugged S-Beam load cell, 750 pound capacity	
LCR-1K	Rugged S-Beam load cell, 1,000 pound capacity	
LCR-2K	Rugged S-Beam load cell, 2,000 pound capacity	
LCR-3K	Rugged S-Beam load cell, 3,000 pound capacity	
LCR-5K	Rugged S-Beam load cell, 5,000 pound capacity	
LCR-10K	Rugged S-Beam load cell, 10,000 pound capacity	

Swivel Rod End (male thread)

REC-014M	Swivel Rod End for 25 to 200 lb ranges
REC-012M	Swivel Rod End for 250 to 3000 lb ranges
REC-034M	Swivel Rod End for 5000 to 10,000 lb ranges

Load Buttons

LBC-014	Load Button for 25 to 200 lb ranges
LBC-012	Load Button for 250 to 3000 lb ranges
LBC-034	Load Button for 5000 to 10,000 lb ranges

Compatible Meters

DP25B-S	4-Digit strain meter with excitation
DP41-S	6-Digit strain meter with excitation



Part Number Builder

(1)

LCR- 25

Option Descriptions

(1)

Select

25 for 25 lb range

50 for 50 lb range

100 for 100 lb range

150 for 150 lb range

200 for 200 lb range

250 for 250 lb range

500 for 500 lb range

750 for 750 lb range

1K for 1000 lb range

2K for 2000 lb range

3K for 3000 lb range

5K for 5000 lb range

10K for 10000 lb range

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