

Subminiature Load Cell LCKD Series Rugged Industrial Design

LCKD



- ✓ 5-Pt NIST Traceable Calibration Included
- ✓ Rugged All Stainless Steel Construction
- ✓ Temperature compensation
- ✓ Miniature Size, Low Profile
- ✓ Ranges from 1 kg to 1000 lb

Small in size but not in performance, NEWPORT's LCKD Series subminiature compression load cells are designed to measure load ranges from 1 kg to 1000 lb. Rugged all stainless steel construction and high performance strain gages assure superior linearity and stability. All models include a 5-pt NIST traceable calibration to assure an accurate installation. If need multiple load cells with no calibration see the economical LCKD-PK which contains 3 uncalibrated load cells. Temperature compensation is achieved through a miniature circuit board which is included in the load cell's cable. These units are designed to be mounted on a smooth, flat surface.

The LCKD is also available in metric configurations, with ranges from 0-10 to 0-5,000 N. Please contact our Pressure department for more information..

SPECIFICATIONS

Excitation: 5 Vdc, 7 Vdc max

Output: 2 mV/V nominal

5-Point Calibration: 0%, 50%, 100%, 50%, 0%

Linearity: $\pm 0.25\%$ FSO

Hysteresis: $\pm 0.25\%$ FSO

Repeatability: $\pm 0.10\%$ FSO

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:

Span: $\pm 0.018\%$ FSO/°C

Zero: $\pm 0.009\%$ FSO/°C

Safe Overload: 150% of capacity

Ultimate Overload: 300% of capacity

Bridge Resistance: 350 Ω min

Full Scale Deflection: 0.001 to 0.003"

Electrical Connection: 1.5 m (5') 4-conductor insulated cable with temperature compensation board
Weight: <14 g (<0.5 oz)
Protection Class: IP54

Product Selection (Specify Model Number)

Part Number	Description	Qty.
LCKD-1KG	0 - 1 KG Range Load Cell	
LCKD-5	0 - 5 LB Range Load Cell	
LCKD-10	0 - 10 LB Range Load Cell	
LCKD-25	0 - 25 LB Range Load Cell	
LCKD-50	0 - 50 LB Range Load Cell	
LCKD-100	0 - 100 LB Range Load Cell	
LCKD-250	0 - 250 LB Range Load Cell	
LCKD-500	0 - 500 LB Range Load Cell	
LCKD-1000	0 - 1000 LB Range Load Cell	

Compatible Meters

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

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