

SUBMINIATURE INDUSTRIAL COMPRESSION LOAD CELL

STANDARD AND METRIC MODELS

5-Point
NIST-Traceable
Calibration
Provided

LCKD/LCMKD Series Compression 0-2.2 lb to 0-1000 lb 0-10 to 0-5000 N

1 Newton = 0.2248 lb
1 daNewton = 10 Newtons
1 lb = 454 kg
1 t = 1000 kg = 2204 lb

Starts at
\$550



Standard

Small in size but not in performance, OMEGA's LCKD/LCMKD Series 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 ensure superior linearity and stability. Temperature compensation is achieved through a miniature circuit board in the cable. These cells are designed to be mounted on a smooth, flat surface.

SPECIFICATIONS

Excitation: 5 Vdc, 7 Vdc max

Output: 2 mV/V nominal

5-Point Calibration:

0%, 50%, 100%, 50%, 0%

Linearity: ±0.25% FSO

Hysteresis: ±0.25% FSO

Repeatability: ±0.10% FSO

Zero Balance: ±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: ±0.018% FSO/°C

Zero: ±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"

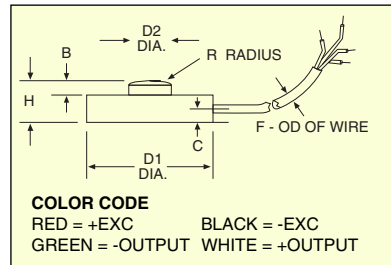
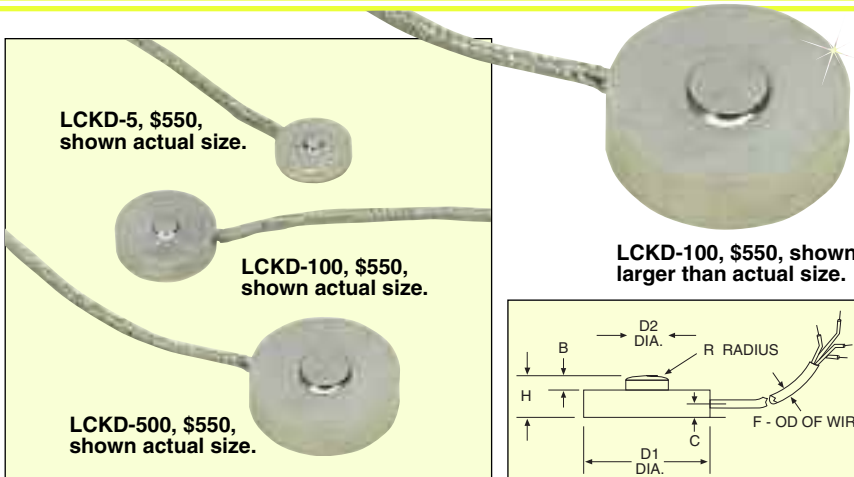
Electrical Connection: 1.5 m (5')

4-conductor insulated cable with

temperature compensation board

Weight: <14 g (<0.5 oz)

Protection Class: IP54



Dimensions: mm (in)

CAPACITY	D1	D2	H	B	C	F	R
10 to 200 N 1 kg to 50 lb	9.6 (0.38)	2.2 (0.09)	3.0 (0.12)	0.76 (0.03)	1.0 (0.04)	1.3 (0.05)	6.3 (0.25)
500 to 1000 N 100 to 250 lb	13 (0.50)	3.0 (0.12)	3.8 (0.15)	0.51 (0.02)	1.5 (0.06)	1.3 (0.05)	13 (0.5)
2000 to 5000 N 500 to 1000 lb	19 (0.75)	6.1 (0.24)	6.4 (0.25)	0.76 (0.03)	2.5 (0.10)	1.3 (0.05)	101 (4)

STANDARD MODELS

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

CAPACITY		MODEL NO.	PRICE	COMPATIBLE METERS*
lb	N			
2.2	9.8	LCKD-1KG	\$585	DPiS, DP41-S, DP25B-S
5	22.2	LCKD-5	550	DPiS, DP41-S, DP25B-S
10	46	LCKD-10	550	DPiS, DP41-S, DP25B-S
25	111	LCKD-25	550	DPiS, DP41-S, DP25B-S
50	222	LCKD-50	550	DPiS, DP41-S, DP25B-S
100	445	LCKD-100	550	DPiS, DP41-S, DP25B-S
250	1112	LCKD-250	550	DPiS, DP41-S, DP25B-S
500	2224	LCKD-500	550	DPiS, DP41-S, DP25B-S
1000	4448	LCKD-1000	550	DPiS, DP41-S, DP25B-S

METRIC MODELS

CAPACITY		MODEL NO.	PRICE	COMPATIBLE METERS*
N	lb			
10	2.25	LCMKD-10N	\$585	DP41-S, DP25B-S, iSeries
20	4.5	LCMKD-20N	550	DP41-S, DP25B-S, iSeries
50	11.2	LCMKD-50N	550	DP41-S, DP25B-S, iSeries
100	22.5	LCMKD-100N	550	DP41-S, DP25B-S, iSeries
200	45	LCMKD-200N	550	DP41-S, DP25B-S, iSeries
500	112	LCMKD-500N	550	DP41-S, DP25B-S, iSeries
1000	225	LCMKD-1KN	550	DP41-S, DP25B-S, iSeries
2000	450	LCMKD-2KN	550	DP41-S, DP25B-S, iSeries
5000	1124	LCMKD-5KN	550	DP41-S, DP25B-S, iSeries

Comes complete with 5-point NIST-traceable calibration and 59 kΩ shunt data.

* See section D for compatible meters.

Ordering Examples: LCKD-1KG, 1 kg capacity load cell, \$585.

LCKD-25, 25 lb capacity load cell, \$550.

LCMKD-10N, 10 Newton capacity load cell, \$585.

LCMKD-2KN, 2000 Newton capacity load cell, \$550.