

SUBMINIATURE INDUSTRIAL LOAD CELL

VERY LOW PROFILE

LCMKD Series Compression 0-10 N to 0-5000 N

1 Newton = 0.2248 lb
1 kgf = 10 Newtons
1 kg = 2.204 lb
1 t = 1000 kg = 2204 lb

Starts at
\$550



Small in size but not in performance, OMEGA's LCMKD Series compression load cells are designed to measure load ranges from 10 N to 5 kN. 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% of FSO/°C

Zero: ±0.009% of FSO/°C

Safe Overload: 150% of capacity

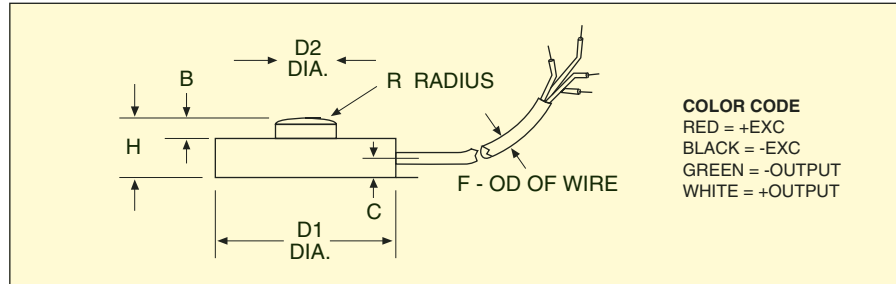
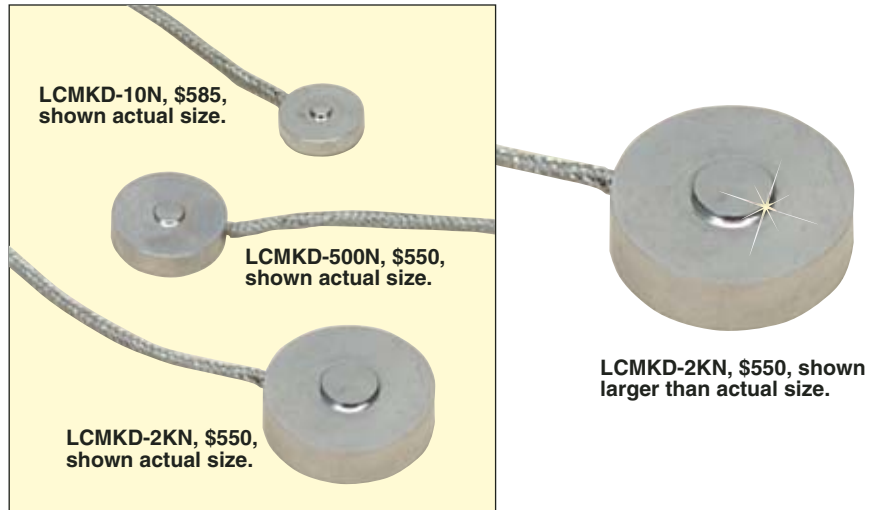
Ultimate Overload: 300% of capacity

Bridge Resistance: 350 Ω min

Full Scale Deflection: 0.025 to 0.075 mm

Electrical Connection: 1.5 m (5')
4-conductor insulated cable with
temperature compensation board

Weight: <14 g (<0.5 oz)



Dimensions: mm (in)

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

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

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 with 5-point NIST-traceable calibration.

* See section D for compatible meters.

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

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

ACCESSORY

MODEL NO.	PRICE	DESCRIPTION
OP-17	\$15	Reference Book: Measure for Measure



UNITED STATES

www.omega.com
1-800-TC-OMEGA
Stamford, CT.

CANADA

www.omega.ca
Laval(Quebec)
1-800-TC-OMEGA

GERMANY

www.omega.de
Deckenpfronn, Germany
0800-8266342

UNITED KINGDOM

www.omega.co.uk
Manchester, England
0800-488-488

FRANCE

www.omega.fr
Guyancourt, France
088-466-342

CZECH REPUBLIC

www.omegaeng.cz
Karviná, Czech Republic
596-311-899

BENELUX

www.omega.nl
Amstelveen, NL
0800-099-33-44



More than 100,000 Products Available!

• Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Glass Bulb Thermometers, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders Relative Humidity Measurement Instruments, RTD Probes, Elements and Assemblies, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples Thermowells and Head and Well Assemblies, Transmitters, Wire

• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters