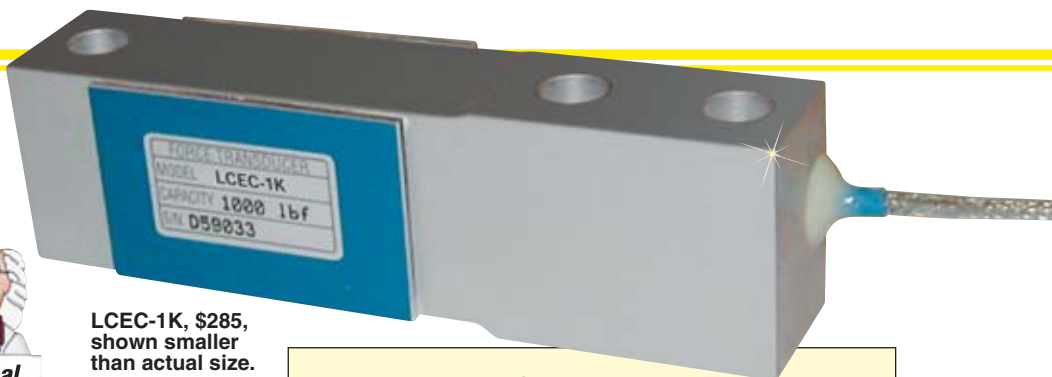


SEALED BEAM LOAD CELLS FOR LOW-CLEARANCE INSTALLATIONS

LCEC Series
Tension/Compression
Calibrated in Compression
50 lb to 1000 lb
23 kg to 455 kg



LCEC-1K, \$285,
shown smaller
than actual size.

Starts at
\$265



- ✓ Very High Precision
- ✓ Low Profile
- ✓ Waterproof, Corrosion Resistant
- ✓ Barometrically Insensitive

LCEC Series load cells are designed to operate in all weather or wash-down environments. Their low profile and high side load capability simplify mechanical installation considerations. Their weather sealing, high precision, and repeatability make them ideal for rugged industrial use in testing, batching, weigh pits, and applications that are exposed to the elements.

SPECIFICATIONS

Excitation: 10 Vdc (15 V max)

Output: 3 mV/V nominal

Calibration: NIST-traceable

Linearity: ±0.03% FS

Hysteresis: ±0.02% FS

Repeatability: ±0.01% FS

Creep (after 20 min): ±0.03%

Zero Balance: ±1% FS

Operating Temp Range:

-55 to 90°C (-65 to 200°F)

Compensated Temp Range:

-15 to 65°C (0 to 150°F)

Thermal Effects:

Zero: ±0.0015% rdg/°F max

Span: ±0.0008% FS/°F max

Safe Overload: ±150% of capacity

Ultimate Overload: ±300% of capacity

Input Resistance: 350 Ω +50/-3.5 Ω

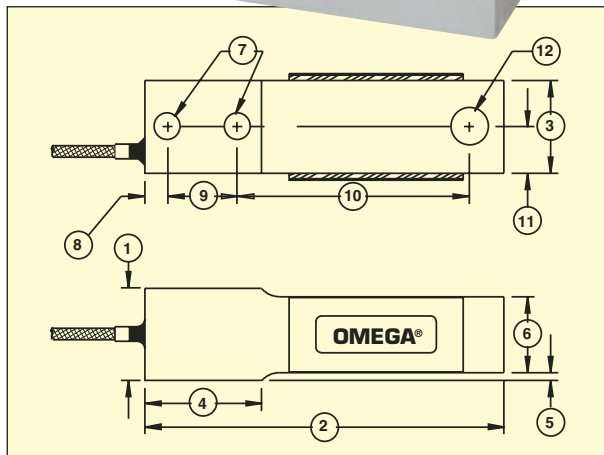
Allowable Side Load at Rated Load:
50% rated capacity

Protection Class: IP67

Output Resistance:
350 Ω ±3.5 Ω

Construction:
High-carbon steel

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



Dimensions in inches and mm

See Drawing Above	CAPACITY (lb)									
	50		100		250		500		1000	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
①	0.98	24.9	0.98	24.9	0.98	24.9	1.00	25.4	1.50	38.1
②	2.38	60.5	2.38	60.5	2.38	60.5	3.88	98.6	5.00	127.0
③	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	1.00	25.4
④	0.97	24.6	0.97	24.6	0.97	24.6	1.25	31.8	1.75	44.5
⑤	0.11	2.80	0.11	2.80	0.11	2.80	0.09	2.30	0.10	2.50
⑥	0.82	20.8	0.82	20.8	0.82	20.8	0.82	20.8	1.36	34.5
⑦	0.17	4.30	0.17	4.30	0.17	4.30	0.28	7.10	0.41	10.3
⑧	0.25	6.40	0.25	6.40	0.25	6.40	0.25	6.40	0.38	9.70
⑨	0.50	12.7	0.50	12.7	0.50	12.7	0.75	19.1	1.00	25.4
⑩	1.31	33.3	1.31	33.3	1.31	33.3	2.50	63.5	3.25	82.6
⑪	0.25	6.40	0.25	6.40	0.25	6.40	0.50	12.7	0.50	12.7
⑫	0.17	4.30	0.17	4.30	0.17	4.30	0.40	10.2	0.40	10.2

■ MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

CAPACITY		MODEL NO.	PRICE	COMPATIBLE METERS*
50 lb	23 kg	LCEC-50	\$265	DPiS, DP41-S, DP25B-S
100 lb	45 kg	LCEC-100	265	DPiS, DP41-S, DP25B-S
250 lb	114 kg	LCEC-250	265	DPiS, DP41-S, DP25B-S
500 lb	227 kg	LCEC-500	275	DPiS, DP41-S, DP25B-S
1000 lb	455 kg	LCEC-1K	285	DPiS, DP41-S, DP25B-S

* See section D for compatible meters. DPiS meter suitable for one direction measurement only.

Ordering Examples: LCEC-250, 250 lb capacity load cell, \$265. LCEC-1K, 1000 lb capacity load cell, \$285.

ACCESSORY

MODEL NO.	PRICE	DESCRIPTION
ME-1804	\$125	Reference Book: Mechanical Design Handbook

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• 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

Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ethernet 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, Pressure Transmitters, Strain Gauges, 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