# **HIGH-CAPACITY UNIVERSAL** CANISTER LOAD CELLS RUGGED STAINLESS STEEL CASE

## LC1103/LC1113 Series

Tension/Compression\* Calibrated in Tension LC1103 (Cable Style) LC1113 (Connector Style) 50 lb to 500.000 lb 23 kg to 226,860 kg

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





- ✓ FM Approved Intrinsically Safe
- ✓ 5-Point Calibration Included
- ✓ 0.25% Interchangeability for Multiple Cell Load **Applications**
- ✓ Dual-Bridge Models Available
- ✓ High Accuracy
- Environmentally **Protected**

#### **SPECIFICATIONS**

Excitation: 10 Vdc (15 V max) Output: 2 mV/V ±0.25 % FSO 5-Point Calibration (in Tension): 0%, 50%, 100%, 50%, 0%

Linearity:

≤**10 K**: ±0.05% FSO >10 K: ±0.1% FSO Hysteresis: ±0.05% FSO Repeatability: ±0.05% FSO Zero Balance: ±1.0% FSO **Operating Temp Range:** 

**LC1103:** -46 to 107°C (-50 to 225°F) **LC1113:** -46 to 121°C (-50 to 250°F)



Compensated Temp Range: 16 to 71°C (60 to 160°F)

Thermal Effects: Zero: ±0.0018% FSO/°C Span: ±0.0018% FSO/°C

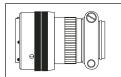
Safe Overload: 150% of capacity Ultimate Overload: 300% of capacity Input Resistance: 350  $\pm$ 10  $\Omega$ Output Resistance:  $350 \pm 10 \Omega$ Full Scale Deflection: 0.08 to 0.13 mm

(0.003 to 0.005") typical Construction: Stainless steel Electrical: 4.6 m (15') 4-conductor, shielded, color-coded PVC cable

**Agency Approvals:** FM Intrinsically Safe:

IS/I.II.III/1/CDEFG (standard)

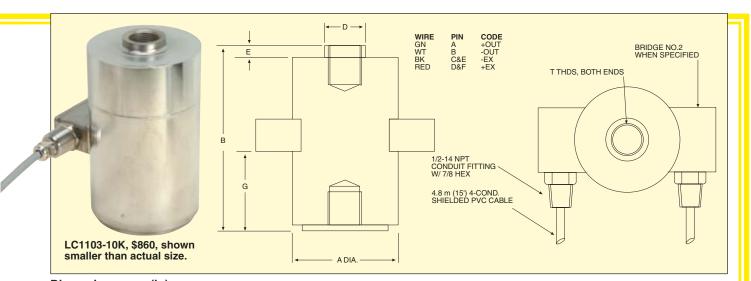
**Protection Class: IP67** 



Mating Connector PT06F-10-6S \$26.50

\* ≥ 100,000 lb calibrated in compression.

## HIGH-CAPACITY UNIVERSAL CANISTER LOAD CELLS



Dimensions: mm (in)

Difficultions: fillif (iii)						
Capacity (lb)	Α	В	D	Е	G	T
50 to 300	89 (3.5)	114 (4.5)	22 (0.88)	6.4 (0.25)	76 (3.0)	%-24 UNF x % DP
500 to 3K	89 (3.5)	116 (4.6)	38 (1.5)	6.4 (0.25)	32 (1.25)	1/2-20 UNF x ½ DP
5K to 15K	89 (3.5)	133 (5.25)	38 (1.5)	6.4 (0.25)	51 (2.0)	1-14 UNS x 1.0 DP
20K to 75K	114 (4.5)	197 (7.75)	54 (2.13)	6.4 (0.25)	83 (3.25)	1½-12 UNF x 2.0 DP
100K to 150K	219 (8.63)	451 (17.75)	89 (3.5)	13 (0.50)	197 (7.75)	3-8 UN x 3½ DP
200K to 300K	219 (8.63)	451 (17.75)	127 (5.0)	13 (0.50)	197 (7.75)	4-8 UN x 4.0 DP
500K	219 (8.63)	451 (17.75)	140 (5.5)	13 (0.50)	197 (7.75)	4-8 UN x 4.0 DP

MACT DADIII AD MANEI C UICUI ICUTENI

MUST PUPULAK MUDELS HIGHLIGHTED!									
To Order (Specify Model Number)									
CAPACITY CABLE		CONNECTOR			LOAD BUTTON		ROD END		
lb	kg	STYLE	STYLE	PRICE	COMPATIBLE METERS**	MODEL NO.	PRICE	MODEL NO.	PRICE
50	23	LC1103-50	LC1113-50	\$860	DP41-W, DP41-S, DP25B-S	LBC-038	\$40	REC-038M	\$20
100	45	LC1103-100	LC1113-100	860	DP41-W, DP41-S, DP25B-S	LBC-038	40	REC-038M	20
300	136	LC1103-300	LC1113-300	860	DP41-W, DP41-S, DP25B-S	LBC-038	40	REC-038M	20
500	227	LC1103-500	LC1113-500	860	DP41-W, DP41-S, DP25B-S	LBC-012	40	REC-012M	35
1000	455	LC1103-1K	LC1113-1K	860	DP41-W, DP41-S, DP25B-S	LBC-012	40	REC-012M	35
2500	1134	LC1103-2.5K	LC1113-2.5K	860	DP41-W, DP41-S, DP25B-S	LBC-012	40	REC-012M	35
5000	2269	LC1103-5K	LC1113-5K	860	DP41-W, DP41-S, DP25B-S	LBC-100	55	REC-100M	95
10,000	4537	LC1103-10K	LC1113-10K	860	DP41-W, DP41-S, DP25B-S	LBC-100	55	REC-100M	95
20,000	9074	LC1103-20K	LC1113-20K	1200	DP41-W, DP41-S, DP25B-S*	LBC-112	70	REC-100M	95
50,000	22,686	LC1103-50K	LC1113-50K	t	DP41-W, DP41-S, DP25B-S*	LBC-112	70	REC-112M	150
100,000	45,372	LC1103-100K	LC1113-100K	t	DP41-W, DP41-S, DP25B-S*	LBC-300-8	125	_	_
200,000	90,744	LC1103-200K	LC1113-200K	†	DP41-W, DP41-S, DP25B-S*	_	_	_	_
300,000	136,116	LC1103-300K	LC1113-300K	t	DP41-W, DP41-S, DP25B-S*	_	_	_	_
500,000	226,860	LC1103-500K	LC1113-500K	t	DP41-W, DP41-S, DP25B-S*	_	_	_	_

Comes with 5-point NIST-traceable calibration. 
† Special quote.

\* 4-digit meter. 
\*\* See section D for compatible meters.

**Note:** Models >300,000 lb are calibrated at 300,000 lb. Full scale calibration above 300,000 lb within  $\pm 1\%$  available: add suffix "**-FS**" to the model number and consult Sales for price and delivery.

To order a dual-bridge version, add suffix "-DUAL" to model number and \$350 to price.

Ordering Examples: LC1103-2.5K, 2500 lb capacity cable-style load cell, \$860. LC1113-100K, 100,000 lb capacity connector-style load cell, \$1900. PT06F-10S, mating connector (not included), \$26.50. LC1103-100K-DUAL, 100,000 lb capacity, dual-bridge, cable-style load cell, \$1900 + 350 = \$2250.

#### **ACCESSORY**

MODEL NO.	PRICE	DESCRIPTION
ME-0013	\$275	Reference Book: Mechanical Engineer's Handbook

## omega.co.uk®

Your One-Stop Source for Process Measurement and Control!

## www.omega.co.uk



## 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**

Freephone 0800 488 488 | International +44(0) 161 777 6622 | Fax +44(0) 161 777 6622

www. omega.co.uk Manchester, England 0800-488-488 +44-(0)161-777-6611

#### **FRANCE**

www.omega.fr 0800-466-342

#### **BENELUX**

www.omega.nl 0800-099-33-44



Sales@omega.co.uk

## More than 100,000 Products Available!

#### Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, 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, Thermocouple Wire, RTD Probes

#### 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, Ehernet 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