

HIGH CAPACITY UNIVERSAL CANISTER LOAD CELLS RUGGED STAINLESS STEEL CASE

LC1103/LC1113 Series

Tension/Compression*

Calibrated in Tension

±50 lb to ±500,000 lb

±200 N to ±2.2 MN

1 Newton = 0.2248 lb

1 daNewton = 10 Newtons

1 lb = 454 g

1 t = 1000 kg = 2204 lb

LC1103
\$860
Model Shown



LC1103 = Cable Style

LC1113 = Connector Style

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



Models Available with Built-in Amplifiers

See page F-72 for details

Model LC1103-10K Cable Style
Shown Smaller Than Actual Size
See next page for dimensions

SPECIFICATIONS

Excitation: 10 Vdc (15 V max)

Output: 2 mV/V ±0.25 % FSO

5-Point Calibration: (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 127°C (-50 to 260°F)

Compensated Temp Range :

16 to 71°C (60 to 160°F)

Thermal Effects:

Zero: ±0.001% FSO/°F

Span: ±0.001% FSO/°F

Safe Overload: 150% of Capacity

Ultimate Overload: 300% of Capacity

Input Resistance: 350 Ω ±10 Ω

Output Resistance: 350 Ω ±10 Ω

Full Scale Deflection: .003-.005" Typ.

Construction:

≤100,000 lb: Stainless Steel

>100,000 lb: High Alloy Steel.

Electrical:

15 ft (4.6 m) 4-conductor, shielded,
color coded PVC cable.

Agency Approvals:

FM Intrinsically Safe:

IS/I.II.III/1/CDEFG - Standard

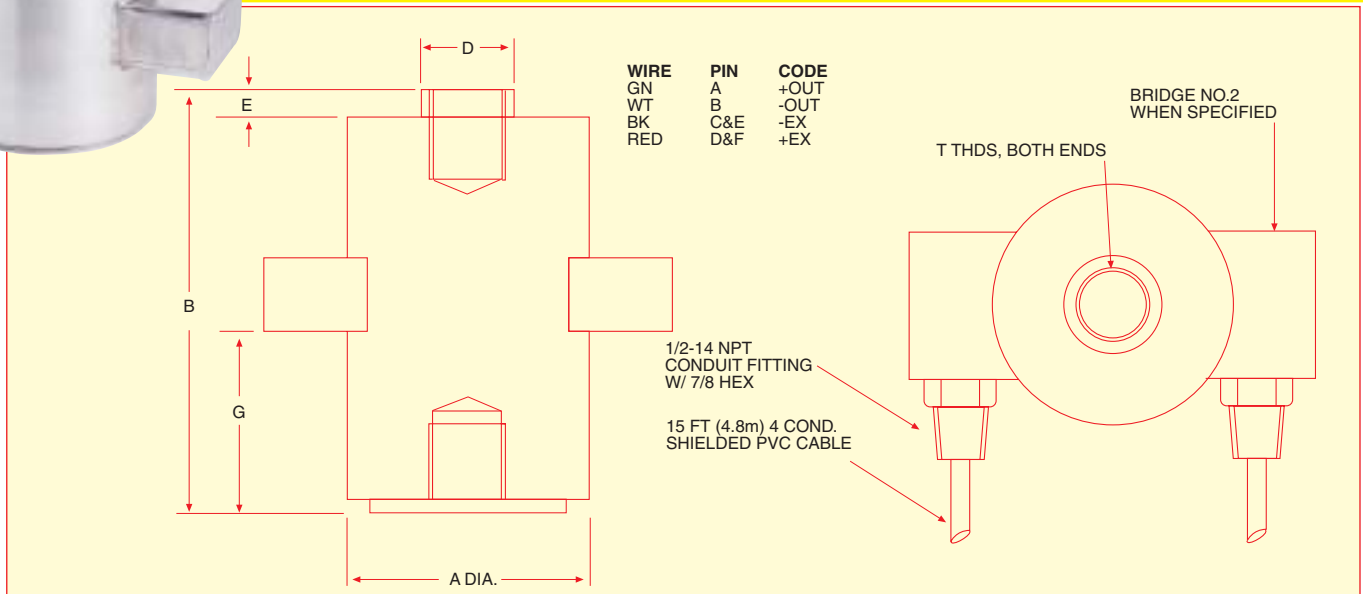


* ≥100,000 lb calibrated in compression

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HIGH CAPACITY UNIVERSAL CANISTER LOAD CELLS

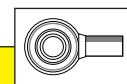


Dimensions Shown in Inches (mm)

Capacity (lb)	A	B	D	E	G	T
50-300	3.5 (89)	4.5 (114)	.88 (22)	.25 (6.4)	3.0 (76)	3/8-24 UNF x 3/16 DP
500-3 K	3.5 (89)	4.6 (116)	1.5 (38)	.25 (6.4)	1.25 (32)	1/2-20 UNF x 1/2 DP
5 K-15 K	3.5 (89)	5.25 (133)	1.5 (38)	.25 (6.4)	2.0 (51)	1-14 UNS x 1.0 DP
20 K-75 K	4.5 (114)	7.75 (197)	2.13 (54)	.25 (6.4)	3.25 (83)	1 1/2-12 UNF x 2.0 DP
100 K-150 K	8.63 (219)	17.75 (451)	3.5 (89)	.50 (13)	7.75 (197)	3-8 UN x 3 3/8 DP
200 K-300 K	8.63 (219)	17.75 (451)	5.0 (127)	.50 (13)	7.75 (197)	4-8 UN x 4.0 DP
500 K	8.63 (219)	17.75 (451)	5.5 (140)	.50 (13)	7.75 (197)	4-8 UN x 4.0 DP

MOST POPULAR MODELS HIGHLIGHTED

To Order (Specify Model Number)



Capacity (lb)	Cable Style	Connector Style	Price	Compatible Meters**	Load Button Model No.	Price	Rod End Model No.	Price
±50	LC1103-50	LC1113-50	\$860	DP41-W, DP41-S, DP25-S	LBC-038	\$40	REC-038M	\$20
±100	LC1103-100	LC1113-100	860	DP41-W, DP41-S, DP25-S	LBC-038	40	REC-038M	20
±300	LC1103-300	LC1113-300	860	DP41-W, DP41-S, DP25-S	LBC-038	40	REC-038M	20
±500	LC1103-500	LC1113-500	860	DP41-W, DP41-S, DP25-S	LBC-012	40	REC-012M	35
±1,000	LC1103-1K	LC1113-1K	860	DP41-W, DP41-S, DP25-S	LBC-012	40	REC-012M	35
±2,500	LC1103-2.5K	LC1113-2.5K	860	DP41-W, DP41-S, DP25-S	LBC-012	40	REC-012M	35
±5,000	LC1103-5K	LC1113-5K	860	DP41-W, DP41-S, DP25-S	LBC-100	55	REC-100M	95
±10,000	LC1103-10K	LC1113-10K	860	DP41-W, DP41-S, DP25-S	LBC-100	55	REC-100M	95
±20,000	LC1103-20K	LC1113-20K	1200	DP41-W, DP41-S, DP25-S*	LBC-112	70	REC-100M	95
±50,000	LC1103-50K	LC1113-50K	1200	DP41-W, DP41-S, DP25-S*	LBC-112	70	REC-112M	150
±100,000	LC1103-100K	LC1113-100K	1900	DP41-W, DP41-S, DP25-S*	LBC-300-8	125		
±200,000	LC1103-200K	LC1113-200K	2300	DP41-W, DP41-S, DP25-S*				
±300,000	LC1103-300K	LC1113-300K	2960	DP41-W, DP41-S, DP25-S*				
±500,000	LC1103-500K	LC1113-500K	3250	DP41-W, DP41-S, DP25-S*				

* 4 Digit meter

**See Section D For Compatible Meters

Metric Ranges Available - Consult Engineering

Note: Models >300,000 lb are calibrated at 300,000 lb. Full scale calibration above 300,000 lb within ±1% available: Add suffix "-FS" to the model number and add \$1,500 to order price.

To order a dual bridge version, add suffix "-DUAL" to the part number and add \$250 to the price.

Ordering Examples:

1) LC1103-2.5K is a 2,500 lb capacity cable style load cell, \$860

2) LC1113-100K is 100,000 lb capacity connector style load cell, \$1900. **Mating Connector** (not included) PT06F-10S \$26.50 (see previous page.

3) LC1103-100K-DUAL is a 100,000 lb capacity, Dual Bridge cable style load cell, \$1,900 + 250 = \$2150