

MINIATURE LOW-PROFILE TENSION LINKS

LOW PROFILE 19 mm (0.75") TO 25 mm (1") HEIGHT

STANDARD AND METRIC MODELS

LC703/LCM703 Series

**Tension/Compression
Calibrated in Tension
10 lb to 1000 lb
5 kg to 500 kgf**

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

Starts at
\$295



- ✓ Low Profile
- ✓ High Accuracy
- ✓ Rugged Industrial Design

The LC703/LCM703 Series comprises economical universal (tension/compression) load cells with a low profile. Ranges above 100 lb are stainless steel; ranges below 100 lb are aluminum. The low profile and rugged design make LC703 and LCM703 suitable for many industrial applications, including robotics, automated weighing systems, and batch-process control systems.

SPECIFICATIONS

Excitation: 10 Vdc (15V max)

Output: 2 mV/V nominal

5-Point Calibration:
0%, 50%, 100%, 50%, 0%

Linearity:

- 10 to 100 lb: ±0.15%
- >100 lb: ±0.10 FSO
- 5 to 50 kgf: ±0.15%
- 75 to 500 kgf: ±0.10%

Hysteresis:

- 10 to 100 lb: ±0.15%
- >100 lb: ±0.10 FSO
- 5 to 50 kgf: ±0.15%
- 75 to 500 kgf: ±0.10%

Repeatability: ±0.05%

Zero Balance: ±1.0% FSO

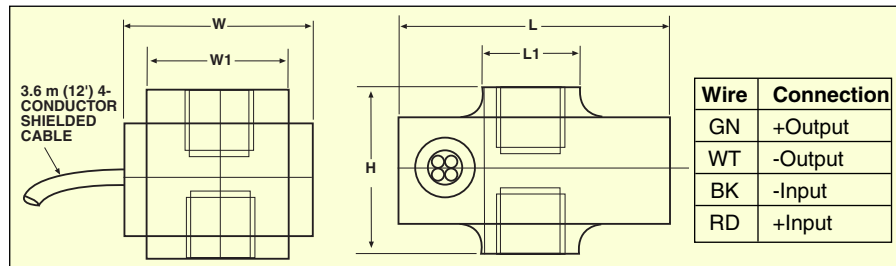
Operating Temp Range:
-40 to 82°C (-40 to 180°F)

STANDARD
LC703-25, \$295,
shown actual size.

METRIC
LCM703-150, \$295,
shown actual size.



LC703-100, \$295,
shown larger than actual size.



Dimensions: mm (in)

CAPACITY	L (MAX)	L1	W	W1	H	THREAD
10 lb 5 kgf	38 (1.50)	14 (0.56)	14 (0.54)	9.5 (0.38)	19 (0.75)	10-32 x 0.20 M5 x 0.8-6H
25 to 100 lb 10 to 50 kgf	41 (1.62)	14 (0.56)	17 (0.66)	13 (0.50)	19 (0.75)	¼-28 x 0.23 M6 x 1.00-6H
150 to 1K lb 75 to 500 kgf	44 (1.75)	14 (0.56)	24 (0.93)	19 (0.75)	25 (1.0)	¾-24 x 0.38 M10 x 1.5-6H

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

Thermal Effects:

- Zero: ±0.005% FSO/°F
- Span: ±0.005% FSO/°F

Protection Class: IP54

Safe Overload: 150% of capacity

Ultimate Overload: 300% of capacity

Output Resistance: 350 ±10 Ω

Input Resistance: 360 Ω minimum

Full Scale Deflection: 0.003" nominal

Construction:

- ≤100 lb: Aluminum
- >100 lb: 17-4 PH stainless steel
- ≤50 kg: Aluminum
- >50 kg: 17-4 PH stainless steel

Electrical: 3.6 m (12') shielded
4-conductor PVC cable

MINIATURE LOW-PROFILE TENSION LINKS

☐ MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

CAPACITY		MODEL NO.	PRICE	COMPATIBLE METERS*	ROD END	PRICE
kgf	lb					
STANDARD MODELS						
4.5	10	LC703-10	\$295	DPiS, DP41-S, DP25B-S	REC-010M	\$25
11	25	LC703-25	295	DPiS, DP41-S, DP25B-S	REC-014M	25
23	50	LC703-50	295	DPiS, DP41-S, DP25B-S	REC-014M	25
34	75	LC703-75	295	DPiS, DP41-S, DP25B-S	REC-014M	25
45	100	LC703-100	295	DPiS, DP41-S, DP25B-S	REC-014M	25
68	150	LC703-150	295	DPiS, DP41-S, DP25B-S	REC-038M	25
91	200	LC703-200	295	DPiS, DP41-S, DP25B-S	REC-038M	25
136	300	LC703-300	295	DPiS, DP41-S, DP25B-S	REC-038M	25
227	500	LC703-500	395	DPiS, DP41-S, DP25B-S	REC-038M	25
341	750	LC703-750	395	DPiS, DP41-S, DP25B-S	REC-038M	25
455	1000	LC703-1K	395	DPiS, DP41-S, DP25B-S	REC-038M	25
METRIC MODELS						
5	11	LCM703-5	\$295	DP41-W, DP41-S, DP25B-S	MREC-M5M	\$25
10	22	LCM703-10	295	DP41-W, DP41-S, DP25B-S	MREC-M6M	25
25	55	LCM703-25	295	DP41-W, DP41-S, DP25B-S	MREC-M10M	35
50	110	LCM703-50	295	DP41-W, DP41-S, DP25B-S	MREC-M10M	35
75	165	LCM703-75	295	DP41-W, DP41-S, DP25B-S	MREC-M10M	35
100	220	LCM703-100	295	DP41-W, DP41-S, DP25B-S	MREC-M10M	35
150	331	LCM703-150	295	DP41-W, DP41-S, DP25B-S	MREC-M10M	35
250	551	LCM703-250	395	DP41-W, DP41-S, DP25B-S	MREC-M10M	35
500	1102	LCM703-500	395	DP41-W, DP41-S, DP25B-S	MREC-M10M	35

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

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

Ordering Examples: LC703-200, 200 lb capacity universal link with 3.6 m (12') cable, \$295.

LCM703-100, 100 kgf capacity universal link with 3.6 m (12') cable, \$295. MREC-M10M, accessory rod ends, \$35 ea.

See Section Y for a Selection of Scientific, Technical, and Reference Books Available from omega.com

COMPATIBLE METERS

PATENTED

MONOGRAM SERIES

DP25B/DP41-B Starts at

\$245



DP41-B, \$595, shown smaller than actual size.

DP25B-E, \$245, shown smaller than actual size, see page D-23.

- ✓ mV, V, mA, Strain Gage Thermocouple, RTD Inputs
- ✓ Full Process Unit Scaling
- ✓ Built-In Transducer Power

IN STOCK FOR FAST DELIVERY

To Order (Specify Model Number)

MODEL NO.	PRICE	DESCRIPTION
DP25B-E	\$245	4-digit voltage/current input meter with excitation
DP25B-S	245	4-digit mV input meter with excitation
DP41-B	595	6-digit 1/8 DIN universal input meter with excitation

Comes complete with operator's manual.

Ordering Examples: DP25B-E, voltage/current input meter for use with 0 to 5 V, 0 to 10 V, 4 to 20 mA output transducers, \$245.

DP25B-S, mV input meter for use with mV/V output transducers, \$245. DP41-B, universal input meter for use with all standard transducer outputs, \$595.

change color

At Any Setpoint

TOTALLY PROGRAMMABLE COLOR DISPLAYS

