

ECONOMICAL MINIATURE TENSION OR COMPRESSION LOAD CELLS

0.75 TO 1" DIAMETER

LCFL Series

**Tension/Compression
Calibrated in Tension**
0-2.2 lb to 0-100 lb
0-1 kg to 0-45 kg

All Models
\$595



Small and capable of highly accurate readings, the LCFL subminiature load cells are suitable for precision industrial applications. They are all stainless steel, measure either tension or compression loads, and have male thread studs for load attachment. The exclusive internal design provides superior long-term stability and minimizes the effects of small off-axis loads.

SPECIFICATIONS

Excitation:

1 kg to 10 lb: 5 Vdc
≥25 lb: 10 Vdc

Output:

1 kg: 1.0 mV/V (nom.)
5 to 100 lb: 2 mV/V (nom.)

Accuracy (Linearity and Hysteresis Combined): ±0.50% FSO

Repeatability: ±0.20% FSO

5-Point Calibration (in Tension):

0%, 50%, 100%, 50%, 0%

Zero Balance: ±2% FSO

Operating Temp Range:

-53 to 121°C (-65 to 250°F)

Compensated Temp Range:

16 to 71°C (60 to 160°F)

Thermal Effects:

Span: ≥1 kg: ±0.009% rdg/°C

Zero: ≥1 kg: 0.009% FSO/°C

Deflection FS: 0.03 to 0.08 mm (0.001 to 0.003")

Safe Overload: 150% of capacity

Ultimate Overload: 300% of capacity

Bridge Resistance: 350 Ω minimum

Construction: Stainless steel

Electrical Connection: 1.5 m (5')

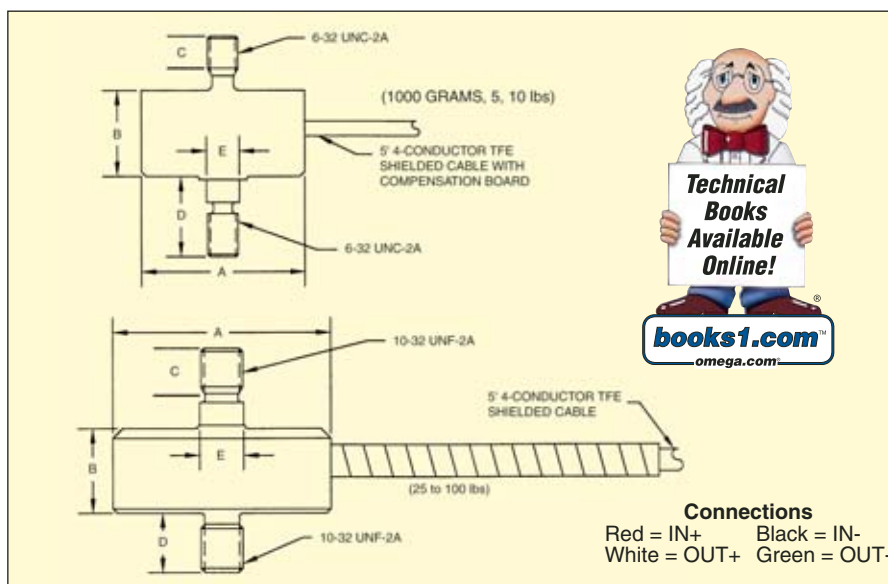
4-conductor, shielded TFE cable

Protection Rating: IP54

LCFL-10, \$595,
shown larger than
actual size.



LCFL-100, \$595,
shown larger than
actual size.



Dimensions: mm (in)

CAPACITY	A	B	C	D	E
1 kg; 5, 10 lb	19.1 (0.75)	10.1 (0.40)	6.4 (0.25)	9.7 (0.38)	3.8 (0.15)
25 to 100 lb	25.4 (1.00)	9.9 (0.39)	9.7 (0.38)	7.0 (0.26)	5.0 (0.20)

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

CAPACITY		MODEL NO.	PRICE	COMPATIBLE METERS*
lb	kg			
2.2	1	LCFL-1KG	\$595	DPiS, DP41-S, DP25B-S
5	2.3	LCFL-5	595	DPiS, DP41-S, DP25B-S
10	4.5	LCFL-10	595	DPiS, DP41-S, DP25B-S
25	11	LCFL-25	595	DPiS, DP41-S, DP25B-S
50	23	LCFL-50	595	DPiS, DP41-S, DP25B-S
75	34	LCFL-75	595	DPiS, DP41-S, DP25B-S
100	45	LCFL-100	595	DPiS, DP41-S, DP25B-S

Comes with 5-point NIST-traceable calibration.

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

Ordering Examples: LCFL-1KG, 1 kg load cell, \$595, matching rod end, REC-006F, \$10 ea. LCFL-100, 100 lb capacity load cell, \$595, matching rod end, REC-010F, \$10 ea.

ACCESSORIES

MODEL NO.	PRICE	DESCRIPTION
REC-006F	\$10	Rod end for LCFL-1KG, LCFL-5, LCFL-10
REC-010F	10	Rod end for LCFL-25, LCFL-50, LCFL-75, LCFL-100
ME-1746	190	Reference Book: Handbook of Machinery Dynamics

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