Subminiature TENSION OR COMPRESSION LOAD CELLS HIGH ACCURACY. 19 AND 25 mm DIAMETER

LCMFD Series Tension/Compression (Calibrated in Tension) 10 N to 5000 N





Small and capable of highly accurate readings, the LCMFD Series subminiature load cells are designed for precision industrial applications. They are all stainless steel, measure both tension and compression loads, and have male thread studs for load attachment. The exclusive internal design provides superior long-term stability and minimises the effects

of small off-axis loads **SPECIFICATIONS**

Excitation:

10 to 50 N: 5 Vdc 100 N: 10 Vdc

Output:

10 to 50 N: 1.5 mV/V (nom.) 100 N: 2 mV/V (nom.)

Accuracy (Linearity and Hysteresis Combined): ±0.15% FSO: 500 N ±0.20% FSO: 1000 N Repeatability: 0.20% FSO 5-Point Calibration (in Tension):

0%, 50%, 100%, 50%, 0% Zero Balance: ±2% FSO **Deflection:** 0.025 to 0.075 mm **Operating Temp Range:**

-54 to 121°C

Compensated Temp Range:

16 to 71°C

Thermal Effects:

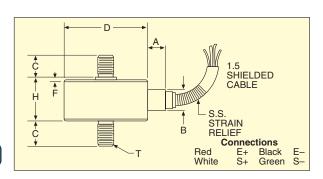
Span: ±0.009% FSO/°C **Zero:** 0.009% FSO/°C

Safe Overload: 150% of capacity Ultimate Overload: 300% of capacity Bridge Resistance: 350 Ω minimum Construction: Stainless steel Electrical Connection: 1.5 m 4-conductor screened cable 50N: Stainless steel overbraided

with temperature compensation board







Dimensions: mm

CAPACITY (N)	T	F	D DIA.	H	Α	B DIA.	С
10 to 50	M5 x .8	4.6	19.1	18.5	12.7	6.35	6.35
100 to 5000	M6 x 1.00	2.3	25.4	13.5	12.7	6.35	9.7

	MOST POPULAR MODELS HIGHLIGHTED!							
To O	To Order (Specify Model Number)							
CAPA N	CITY lb	MODEL NO.	PRICE	COMPATIBLE METERS*	ACCESSORY ROD ENDS	PRICE		
10	2.2	LCMFD-10N	£505	DP41-S, DP25B-S	MREC-M5F	£6.70		
20	4.5	LCMFD-20N	505	DP41-S, DP25B-S	MREC-M5F	6.70		
50	11	LCMFD-50N	505	DP41-S, DP25B-S	MREC-M5F	6.70		
100	22	LCMFD-100N	505	iSeries, DP41-S, DP25B-S	MREC-M6F	10.00		
200	45	LCMFD-200N	505	iSeries, DP41-S, DP25B-S	MREC-M6F	10.00		
500	112	LCMFD-500N	505	iSeries, DP41-S, DP25B-S	MREC-M6F	10.00		
1000	225	LCMFD-1KN	505	iSeries, DP41-S, DP25B-S	MREC-M6F	10.00		
2000	450	LCMFD-2KN	505	iSeries, DP41-S, DP25B-S	MREC-M6F	10.00		
5000	1124	LCMFD-5KN	505	iSeries, DP41-S, DP25B-S	MREC-M6F	10.00		

Comes with 5-point traceable calibration.

* See page 291 for compatible meters.

Ordering Examples: LCMFD-20N, 20 N capacity load cell, £505.

MREC-M5F, matching rod end, £6.70 ea. LCMFD-500N, 500 N capacity load cell, £505.

MREC-M6F, matching rod end, £10 ea.

ACCESSORY

MODEL NO.	PRICE	DESCRIPTION
ME-0013	£184	Reference Book: Mechanical Engineer's Handbook

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