

HYDROSTATICALLY COMPENSATED LOAD CELLS FOR UNDERWATER APPLICATIONS

STANDARD AND METRIC MODELS

**Tension/Compression
Calibrated in Tension**
0-100 lb to 0-10,000 lb
0-50 kg to 0-3000 kg

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

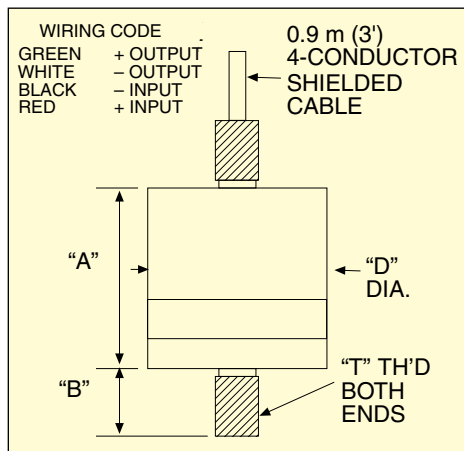
LCUW/LCMUW Series



- ✓ All Stainless Steel
- ✓ 0.25% Accuracy
- ✓ Heavy-Duty Construction for High-Capacity Loads

SPECIFICATIONS

Output: 2 mV/V $\pm 0.25\%$ FSO
Excitation: 10 Vdc (15 V maximum)
Accuracy: 0.25% FSO combined linearity, hysteresis and repeatability
Hydrostatic Effect on Zero:
 $\pm 2.5\%$ FSO per 34.5 bar (500 psi)
 (10 K 16 $\pm 0.1\%$ FSO per 100 psi)
Zero Balance: $\pm 1.0\%$ FSO
Operating Temp Range:
 2 to 93°C (35 to 200°F)
Compensated Temp Range:
 16 to 71°C (60 to 160°F)
Protection Class: IP68
Thermal Effects:
Zero: $\pm 0.005\%$ FSO/°F
Span: $\pm 0.005\%$ rdg/°F
Safe Overload: 150% of capacity
Ultimate Overload: 300% of capacity
Input Resistance: 350 $\pm 10 \Omega$
Output Resistance: 350 $\pm 5 \Omega$
Construction: 17-4 PH stainless steel
Electrical: 0.9 m (3') 4-conductor TFE wrapped cable



STANDARD
 LCUW-1K shown
 smaller than
 actual size.

Dimensions: mm (inch)

CAPACITY kgf (lb)	A	B	D	T METRIC/STANDARD
50 to 500 (100 to 1K)	64 (2.5)	19 (0.75)	51 (2.0)	M12 x 1.75/ ½-20 UNF-2A
1K to 3K (2K to 6K)	76 (3.0)	25 (1.0)	64 (2.5)	M20 x 1.75/ ¾-16 UNF
(10K)	137 (5.38)	32 (1.25)	165 (6.5)	1-14 UNS (STANDARD)

STANDARD MODELS

To Order			
CAPACITY		MODEL NO.	COMPATIBLE METERS*
lb	kgf		
100	45	LCUW-100	DP41-B, DP41-S, DP25B-S
250	114	LCUW-250	DP41-B, DP41-S, DP25B-S
500	227	LCUW-500	DP41-B, DP41-S, DP25B-S
1000	455	LCUW-1K	DP41-B, DP41-S, DP25B-S
2000	909	LCUW-2K	DP41-B, DP41-S, DP25B-S
6000	2721	LCUW-6K	DP41-B, DP41-S, DP25B-S
10,000	4537	LCUW-10K	DP41-B, DP41-S, DP25B-S

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

* Visit us online for compatible meters. Consult Engineering for quotation on side cable exit.

Ordering Example: LCUW-100, 100 lb capacity hydrostatically compensated universal load cell, 0.9 m (3') cable.

METRIC MODELS

To Order			
CAPACITY		MODEL NO.	COMPATIBLE METERS*
kgf	lb		
50	110	LCMUW-50	DPiS, DP41-S, DP25B-S
150	331	LCMUW-150	DPiS, DP41-S, DP25B-S
250	551	LCMUW-250	DPiS, DP41-S, DP25B-S
500	1102	LCMUW-500	DPiS, DP41-S, DP25B-S
1000	2204	LCMUW-1K	DPiS, DP41-S, DP25B-S
3000	6614	LCMUW-3K	DPiS, DP41-S, DP25B-S

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

* Visit us online for compatible meters. Consult Engineering for quote on side cable exit.

Ordering Example: LCMUW-50, 50 kgf capacity hydrostatically compensated universal load cell with 0.9 m (3') cable.