

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

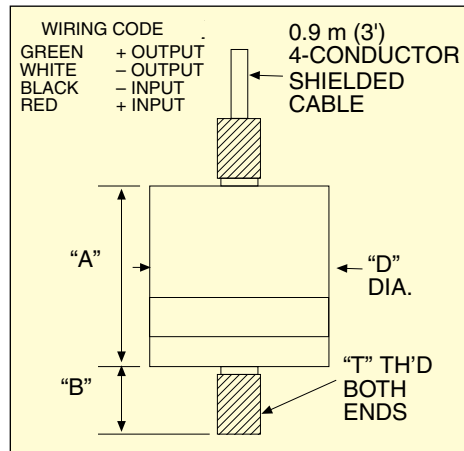
LCUW/LCMUW Series



- ✓ 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
 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.