

# HIGH-ACCURACY S-BEAM LOAD CELLS

## RUGGED FOR INDUSTRIAL APPLICATIONS

25 to 10,000 lb Capacities  
11 to 4536 kgf Capacities

### LCR Series



Standard

- ✓ High Accuracy
- ✓ 5-Point Calibration Included
- ✓ 0.25% Interchangeability for Multiple Load Cell Applications
- ✓ Lightweight Aluminum Construction Ranges to 1000 lb
- ✓ Rugged Stainless Steel on Upper Ranges

### SPECIFICATIONS

**Excitation:** 10 Vdc, 15V max

**Output:** 3 mV/V  $\pm 0.25\%$

**Calibration:** 5 point in tension  
(0%, 50%, 100%, 50%, 0%)

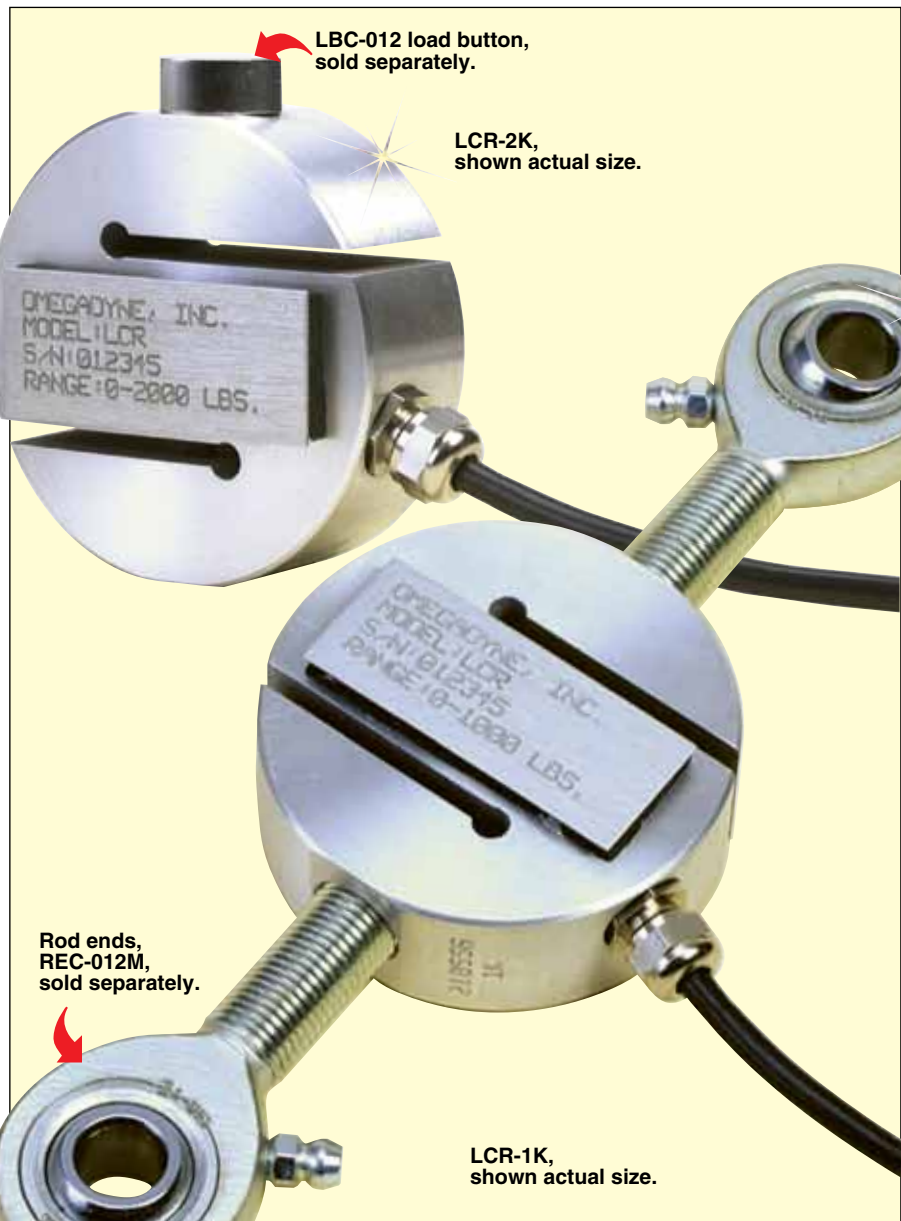
**Linearity:**  $\pm 0.03\%$

**Hysteresis:**  $\pm 0.02\%$

**Repeatability:**  $\pm 0.01\%$

**Creep (20 min):**  $\pm 0.03\%$

**Operating Temperature:** -18 to 71°C  
(0 to 150°F)



**Compensated Temperature:**  
17 to 71°C (60 to 160°F)

**Thermal Effects:**

**Zero:**  $\pm 0.0027\%$  FS/°C

**Span:**  $\pm 0.0015\%$  rdg/°C

**Safe Overload:** 150% of capacity

**Ultimate Overload:** 300% of capacity

**Bridge Resistance:** 350  $\Omega$  nominal

**Protection Level:** IP55

**Material:**

**$\leq 1000$  lb Ranges:** Aluminum

**$> 1000$  lb Ranges:** 17-4 PH SS

**Electrical Connection:** 6 m (20')

**Wiring:**

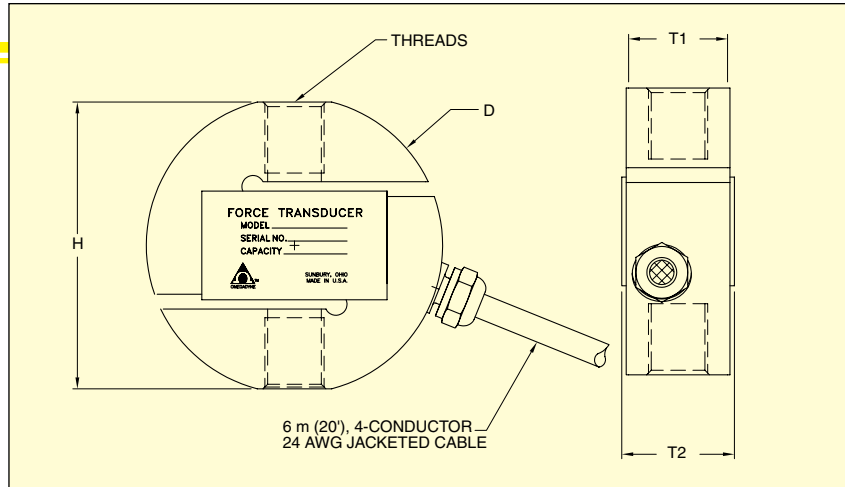
**Red:** (+) Excitation

**Black:** (-) Excitation



**Green:** (+) Output

**White:** (-) Output

# ECONOMICAL S-BEAM LOAD CELLS



CAPACITY		THREADS	Dimensions: mm (inch)			WEIGHT		DEFL.	kg (lb)
lb	kgf		H	D	T1	T2			
25	11	1/4-28 UNF-2B	49 (1.94)	51 (2)	14 (0.55)	23 (0.9)	0.28 (0.01)	0.18 (0.4)	
50	23	1/4-28 UNF-2B	49 (1.94)	51 (2)	14 (0.55)	23 (0.9)	0.25 (0.01)	0.18 (0.4)	
100	45	1/4-28 UNF-2B	49 (1.94)	51 (2)	14 (0.55)	23 (0.9)	0.23 (0.01)	0.18 (0.4)	
150	68	1/4-28 UNF-2B	49 (1.94)	51 (2)	14 (0.55)	23 (0.9)	0.23 (0.01)	0.18 (0.4)	
200	91	1/4-28 UNF-2B	49 (1.94)	51 (2)	14 (0.55)	23 (0.9)	0.25 (0.01)	0.18 (0.4)	
250	113	1/2-20 UNF-2B	61 (2.42)	64 (2.5)	22 (0.88)	30 (1.2)	0.23 (0.01)	0.36 (0.8)	
500	227	1/2-20 UNF-2B	61 (2.42)	64 (2.5)	22 (0.88)	30 (1.2)	0.23 (0.01)	0.36 (0.8)	
750	340	1/2-20 UNF-2B	61 (2.42)	64 (2.5)	22 (0.88)	30 (1.2)	0.23 (0.01)	0.36 (0.8)	
1000	454	1/2-20 UNF-2B	61 (2.42)	64 (2.5)	22 (0.88)	30 (1.2)	0.23 (0.01)	1.04 (2.3)	
2000	907	1/2-20 UNF-2B	61 (2.42)	64 (2.5)	22 (0.88)	30 (1.2)	0.23 (0.01)	1.04 (2.3)	
3000	1361	1/2-20 UNF-2B	61 (2.42)	64 (2.5)	22 (0.88)	30 (1.2)	0.23 (0.01)	1.04 (2.3)	
5000	2269	3/4-16 UNF-2B	87 (3.4)	89 (3.5)	32 (1.25)	38 (1.5)	0.28 (0.01)	2.54 (5.6)	
10,000	4537	3/4-16 UNF-2B	87 (3.4)	89 (3.5)	32 (1.25)	46 (1.8)	0.36 (0.01)	3.09 (6.8)	

To Order					
CAPACITY		MODEL NO.	COMPATIBLE METERS	LOAD BUTTON	ROD END
lb	kgf			MODEL NO.	MODEL NO.
25	11	<b>LCR-25</b>	DP41-S, DP25B-S, DPiS	<b>LBC-014</b>	<b>REC-014M</b>
50	23	<b>LCR-50</b>	DP41-S, DP25B-S, DPiS	<b>LBC-014</b>	<b>REC-014M</b>
100	45	<b>LCR-100</b>	DP41-S, DP25B-S, DPiS	<b>LBC-014</b>	<b>REC-014M</b>
150	68	<b>LCR-150</b>	DP41-S, DP25B-S, DPiS	<b>LBC-014</b>	<b>REC-014M</b>
200	91	<b>LCR-200</b>	DP41-S, DP25B-S, DPiS	<b>LBC-014</b>	<b>REC-014M</b>
250	113	<b>LCR-250</b>	DP41-S, DP25B-S, DPiS	<b>LBC-012</b>	<b>REC-012M</b>
500	227	<b>LCR-500</b>	DP41-S, DP25B-S, DPiS	<b>LBC-012</b>	<b>REC-012M</b>
750	340	<b>LCR-750</b>	DP41-S, DP25B-S, DPiS	<b>LBC-012</b>	<b>REC-012M</b>
1000	454	<b>LCR-1K</b>	DP41-S, DP25B-S, DPiS	<b>LBC-012</b>	<b>REC-012M</b>
2000	907	<b>LCR-2K</b>	DP41-S, DP25B-S, DPiS	<b>LBC-012</b>	<b>REC-012M</b>
3000	1361	<b>LCR-3K</b>	DP41-S, DP25B-S, DPiS	<b>LBC-012</b>	<b>REC-012M</b>
5000	2269	<b>LCR-5K</b>	DP41-S, DP25B-S, DPiS	<b>LBC-034</b>	<b>REC-034M</b>
10,000	4537	<b>LCR-10K</b>	DP41-S, DP25B-S, DPiS	<b>LBC-034</b>	<b>REC-034M</b>

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

**Ordering Example:** LCR-1K, 1000 lb capacity load cell, and two REC-012M, rod ends.

\* DPiS meter suitable for one direction measurement only.