

SM S-TYPE LOAD CELL (U.S. & METRIC)

FEATURES & BENEFITS

- Proprietary Interface temperature compensated strain gages
- High performance
- 0.0008%/°F (0.0015%/°C) temp. effect on output
- Lowest creep – 0.025%
- Tension and compression

SPECIFICATIONS

ACCURACY – (MAX ERROR)				
Nonlinearity – %FS				±0.03
Hysteresis – %FS				±0.02
Nonrepeatability – %RO				±0.01
Creep, in 20 min – %				±0.025
TEMPERATURE				
Compensated Range	°F			0 to +150
	°C			-15 to +65
Operating Range	°F			-65 to +200
	°C			-55 to +90
Effect on Output – % MAX	°F			±0.0008
	°C			±0.0015
Effect on Zero – %RO / °C MAX	°F			±0.0015
	°C			±0.0027
ELECTRICAL				
Rated Output – mV/V (Nominal)				3.0
Zero Balance – %RO				±1.0
Bridge Resistance – Ohm (Nominal)				350
Excitation Voltage – VDC MAX				15
Insulation Resistance – Megohm				> 5000
MECHANICAL				
Calibration				Tension
Safe Axial Load – %CAP MAX				±150
NATURAL FREQUENCY / DEFLECTION				
lbf	N	Deflection		Natural Frequency (Hertz)
		in	mm	
10	50	0.003	0.08	600
25	100	0.003	0.08	1000
50	200	0.003	0.08	1550
100	500	0.004	0.1	1850
250	1000	0.006	0.15	2350
500	2000	0.006	0.15	2150
1000	5000	0.005	0.13	3350
Material				Aluminum



Model SM-25 (Shown)

OPTIONS

- Cable length
- Standardized output
- Custom calibration
- Transducer Electronic Data Sheets (TEDS)
- Add connector to cable
- Special temp range

ACCESSORIES

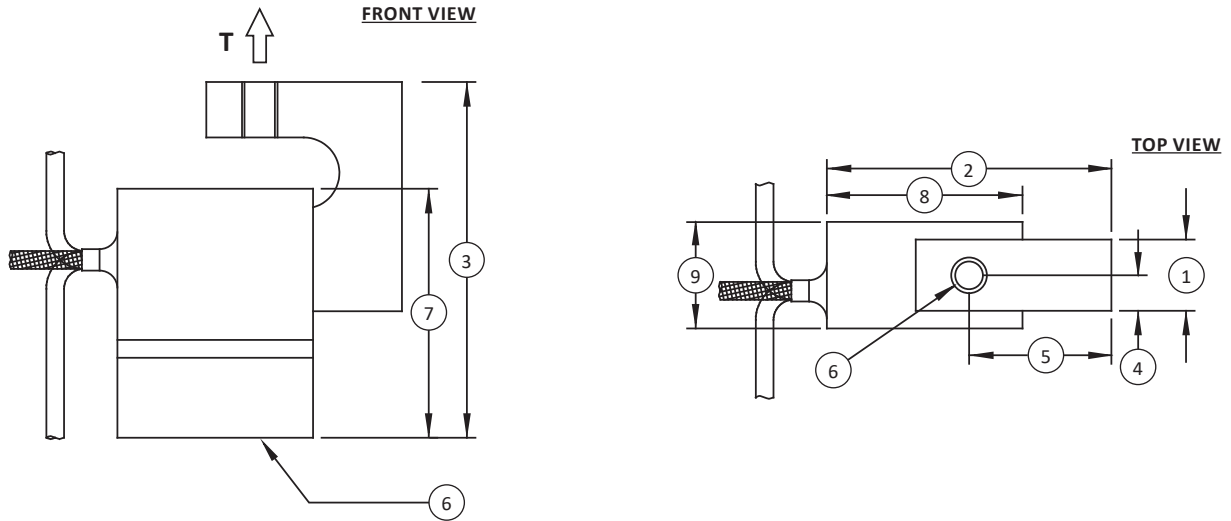
- Load button
- Mounting hardware
- Instrumentation

CONNECTOR OPTIONS

- 5 ft (1.5 m) integral cable

Metric dimensions and capacities are provided for conversion only. Standard product has U.S. capacities and dimensions. Metric capacities available upon special request and at an additional cost.

SM S-TYPE LOAD CELL (U.S. & METRIC)



Notes:
 * T indicates tension load direction / primary axis

DIMENSIONS

See Drawing	CAPACITY			
	US (lbf)	Metric (N)	US (lbf)	Metric (N)
	10, 25, 50, 100, 150, 250	50, 100, 200, 500, 1K	500, 1K	2K, 5K
	in	mm	in	mm
(1)	0.50	12.7	1.00	25.4
(2)	2.00	50.8	2.00	50.8
(3)	2.50	63.5	3.00	76.2
(4)	0.25	6.40	0.50	12.7
(5)	1.00	25.4	1.00	25.4
(6)	¼-28 UNF-2B	M6 x 1-6H	½-20 UNF-2B	M12 x 1.75-6H
(7)	1.75	44.5	2.00	50.8
(8)	1.38	35.1	1.94	49.3
(9)	0.75	19.1	1.25	31.8