

Model SM Series (U.S. & Metric)

Why INTERFACE SM Load Cells are the best in class:

- Proprietary Interface temperature compensated strain gages
- .01% nonrepeatability
- .0008%/°F (.0015%/°C) temp effect on output
- Lowest creep — 0.025%
- Tension and compression

STANDARD CONFIGURATION

- 5 Ft Integral Cable (SM-nn)

OPTIONS*

Extra cable length
Standardized output

ACCESSORIES*

Mounting hardware
Instrumentation

* See appendix for more technical information



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–F0 to 150
Compensated Range–C.....-15 to 65
Operating Range–F-65 to 200
Operating Range–C-55 to 90
Effect on Output–%/F (°C) – MAX± 0.0008
Effect on Zero–% RO/F (°C) – MAX.....± 0.0015

ELECTRICAL

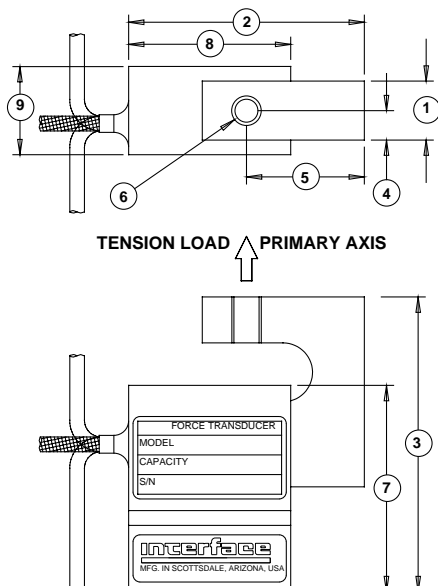
Rated Output–mV/V (Nominal)3.0
Zero Balance–% RO± 1.0
Bridge Resistance–Ohm (Nominal)350
Excitation Voltage – MAX.....15 VDC
Insulation Resistance–Megohm5000

MECHANICAL

CalibrationTension
Safe Overload–% CAP± 150
Cable length–ft5

Natural Frequency/Deflection:

lbf	N	Deflection (inches)	Nat. Freq. (Hertz)
10	50	.003	600
25	100	.003	1000
50	200	.003	1550
100	500	.004	1850
250	1000	.006	2350
500	2000	.006	2150
1000	5000	.005	3350



DIMENSIONS

See Drawing	CAPACITY (lbf)					
	U.S. (lbf)	Metric (N)	U.S. (lbf)	Metric (N)	U.S. (lbf)	Metric (N)
	10, 25, 50, 100, 150, 250	50, 100, 200, 500, 1000	500	2000	1000	5000
	inch	mm	inch	mm	inch	mm
①	0.50	12.7	1.00	25.4	1.00	25.4
②	2.00	50.8	2.00	50.8	2.00	50.8
③	2.50	63.5	3.00	76.2	3.00	76.2
④	0.25	6.40	0.50	12.7	0.50	12.7
⑤	1.00	25.4	1.00	25.4	1.00	25.4
⑥	1/4-28 UNF-2B		1/2-20 UNF-2B		1/2-20 UNF-2B	
⑦	1.75	44.5	2.00	50.8	2.00	50.8
⑧	1.38	35.1	1.94	49.3	1.94	49.3
⑨	0.75	17.1	1.25	31.8	1.25	31.8