## **Subminiature Load Cells**

Model 13

150 g to 1,000 lb.

## STAINLESS STEEL



**Model 13 Compression Only** 

Model 13 (compression only) Subminiature Load Cell is designed to measure load ranges from 150 g to 1000 lb. With subminiature dimensions, including diameters from 0.38" to 0.75" and heights of 0.13" to 0.25", these units are easily incorporated into systems having limited space. Model 13 combines high frequency and low deflection to achieve a combined non-linearity and hysteresis of 0.25%-0.5% full scale. A small circuit board is included in the load cell's lead wire cable for temperature compensation, and should not be removed.

## **Dimensions**

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Model 13 (Order Code AL3 Available Ranges* 150; 250; 500 g; 1,000 g; 5; 10; 25; 50 lb. 100; 250 lb. 500; 1,000 lb. *Stocked ranges are in bold	<b>Ď1</b> " 0.38 0.38 0.50 0.75	<b>D2</b> " 0.09 0.09 0.12 0.25 nt.	<b>H</b> " 0.13 0.13 0.15 0.25	H ØD1

**PERFORMANCE** 

Load Hanges	150 g to 1000 lb. ±0.5% F.S. ±0.1% F.S.
150 g to 500 g	15mV/V nom. 1.5mV/V nom. 2mV/V nom. Infinite ±0.3% F.S.
Temperature, Operating	-65° F to 250° F

**ENVIRONMENTAL** 

Temperature, Compensated Temperature Effect	60° F to 160° F
-Zero (max)	0.01% F.S./° F 0.02% Rdg./° F

**ELECTRICAL** 

150 g to 500 g	Semiconductor
1,000 g to 1,000 lb	Foil
Excitation (calibration)	5VDC
50 g to 1000 lb	5000 megohm @ 50VDC
Insulation Resistance	•
Bridge Resistance	500 ohms (semi)
50 g to 500 g	350 ohms (foil)
1000 g to 1000 lb	Included
Shunt Calibration Data	#1 (See Appendix)
Wiring Code (std)	5' integral cable with balance board*
Electrical Termination (std)	•

**MECHANICAL** 

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0	150g	250g	500g	1000g	5lb	10lb	25lb	50lb	100lb	250lb	500lb	1000lb
Deflection @ F.S. (x10 <sup>-3</sup> in)	0.06	0.06	0.08	0.05	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.6
Static Overload Capacity (% F.S.	)500	500	500	150	150	150	150	150	150	150	150	150
Ringing Frequency (kHz)	26	31	39	26	34	46	69	88	71	86	57	61
Weight (g)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	3.1	3.2	10	10

**NOTES** \*A small 2" long circuit board is included in the cable, 2 ft. from the load cell. Do not remove this board.

## **Options (See Appendix)**

Temperature compensated 1b, 1c

Strain Gage Type .....

**Premium Options:** 1e (≥1,000 g only), 1f (≥1,000 g only)