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

Model 13 (Order Code AL322)				4	
Available Ranges*	Ď1"	D2"	Н"		 '
150; 250; 500 g;	0.38	0.09	0.13	_	
1,000 g; 5; 10; 25; 50 lb.	0.38	0.09	0.13		· ·-
100; 250 lb.	0.50	0.12	0.15	4	
500; 1,000 lb.	0.75	0.25	0.25		4.53.4
*Stocked ranges are in bold faced print.					- ··- ⊙171

PERFORMANCE

Load Ranges Non-Linearity/Hysteresis (max) Non-Repeatability (max) Output (standard)	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 Temperature, Compensated	-65° F to 250° F 60° F to 160° F

ENVIRONMENTAL

ELECTRICAL

 Strain Gage Type
 Semiconductor

 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
 500 ohms (semi)

-Zero (max).....

-Span (max)....

350 ohms (foil) Included
#1 (See Appendix)
5' integral cable with balance board*

0.01% F.S./° F

0.02% Rdg./° F

MECHANICAL

0	150g	250g	500g	1000g	5lb	10lb	25lb	50lb	100lb	250lb	500lb	1000lb
Deflection @ F.S. (x10 ⁻³ 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

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