

Miniature Tension/Compression Load Cell

Model 111



Summary Information

- 5 lb to 500 lb -- Tension/Compression
- Miniature size .50 to .75 Dia.
- 17-4 PH Stainless Steel
- Calibrated in Tension
- Bonded Foil Strain Gages
- Nominal output 2 mV/V +/- 30%

Detail Specifications

Load Ranges	5, 10, 25, 50, 100 lb. OD 1/2" Ht. 0.3" >100, 200, 250, 350, to 500 lb. OD 3/4" Ht. 3/8"
Non-Linearity & Hysteresis	+/- 0.6% FS
Non-Repeatability	+/- 0.12% FS
Sensitivity / Output	2 mV/V +/- 30%
Resolution	Infinite
Overload	150% Range
Zero Setting	2% FS
Deflection	0.0015"
Temperature, Operating	-65°F to +250°F
Temperature, Compensated	60°F to 160 °F
Thermal Error, Zero	0.012% FS/°F
Thermal Error, Span	0.025% Reading/°F
Strain gage Type	Metal foil or Semiconductor depending on range
Excitation (Calibrated)	5.0 Vdc (max 7 Vdc)
Insulation Resistance	>5000 megohms
Bridge Resistance	350 Ω Nominal
Weight	5-100 lb range: ~ 5 grams > 100 lb range: ~ 20 grams
Resonant Frequency	25 kHz