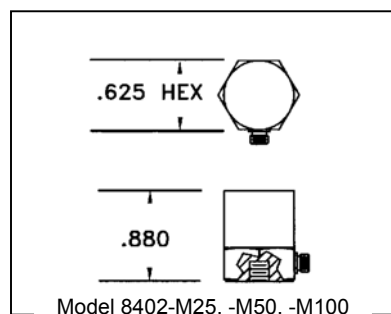
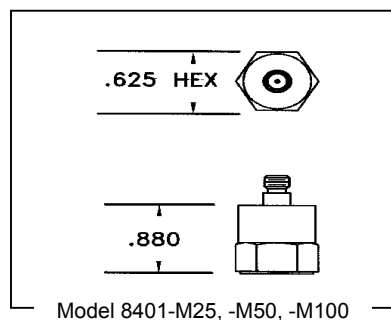


**Models 8401-M25, -M50, -M100  
8402-M25, -M50, -M100**

- \*Vibration & Shock
- \*Low Impedance Output
- \*Choice of Sensitivities
- \*Case Grounded
- \*Top or Side Connector

The Models 8401 and 8402 Piezoelectric Accelerometers are completely self-contained vibration measuring systems having a built-in amplifier within the housing. The units are offered in a range of sensitivities and designed for the measurement of low to medium level broadband frequency vibrations.

These accelerometers incorporate a hybrid electronic assembly within a rugged, welded stainless steel body to enhance its operation in humid and dirty environments. Low impedance output of 100 ohms or less allows operation directly into standard readout equipment without auxiliary signal conditioning, and is capable of driving up to 500 feet of shielded cable. *Consult the factory for customized versions of these sensors.*



<b>Specifications</b>	<b>8401-M25 8402-M25</b>	<b>8401-M50 8402-M50</b>	<b>8401-M100 8402-M100</b>
<b>Transfer / Electrical</b>			
Voltage Sensitivity <sup>1</sup>	25 mv/g +/-5%	50 mv/g +/-5%	100 mv/g +/-5%
Range	+/-200 g Peak	+/-100 g Peak	+/-50 g Peak
Frequency Linearity <sup>2</sup>	+/-5% Max, 2 Hz To 8,000 Hz		+/-5% Max, 2 Hz To 5,000 Hz
Mounted Resonant Frequency	40KHz, Min.		25KHz, Min.
Resonance Amplitude (Q)	30 dB Max.		
Transverse Sensitivity	5% Max, Typical		
Amplitude Linearity	+/-1.0% (BFSL) / 50 g		
Electrical Noise	5 x 10 <sup>-4</sup> g Equiv., Nom.		
Avg Temp Coeff of Sensitivity	0.05% / Deg F		
Output Bias Voltage	10.25 +/-1.5 VDC		
Output Impedance	100 Ohms Max.		
Isolation Resistance	0 (Case Grounded)		
Power Requirements	3.0 mADC, Constant Current with 20 To 30 VDC Compliance		

<b>Environmental</b>	
Vibration Limit	100 g Max. (Sine)
Shock Limit	1,000 g Max.
Temperature Range	-40 To +250 Deg F (-40 To +121 Deg C)
Humidity <sup>3</sup>	0 To 98% R.H. (Non-Condensing)
Base Strain Sensitivity	0.08 g/uE Equiv, Typical
Electromagnetic Sensitivity	0.01 g (Equiv / 100 Gauss)
Acoustic Sensitivity	0.001 g RMS (Equiv @ 150 dB SPL)

<b>Physical</b>	
Configuration	Single-Ended Compression
Size	0.625 In. Hex. x 0.880 In. H (15.9 mm Hex x 21.6 mm H)
Weight	1.0 Oz (29 Gm)
Case Material	18-8 Stainless Steel
Electrical Interface	Coaxial 10-32 Thread
Mounting	10-32 Tapped Base

- NOTES:**  
<sup>1</sup> At +75 Deg F, 10g Peak, 100Hz; Power Supply 3.0 mA DC Constant Current with 20 To 30 VDC Compliance  
<sup>2</sup> Referenced to Sensitivity @ 100 Hz.  
<sup>3</sup> With Connector Protected or Sealed, Unit is Epoxy Sealed.

**Accessories Supplied:**

- (1) Low Noise Cable Assembly, LNHT-10 Ft.
- (1) #10-32 x 0.375"L Mounting Stud, 18-8 St. Stl.
- (1) Hardwood Storage Case
- (1) Standard Calibration Data
- (1) Certificate of Calibration Traceable to N.I.S.T.