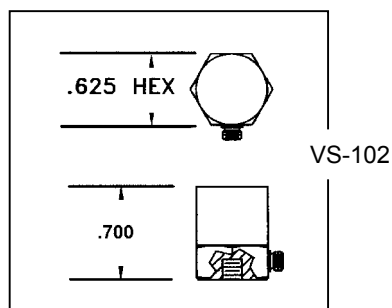


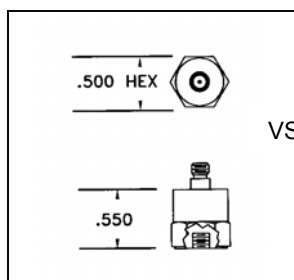
- \* Calibration Traceable to NIST
- \* High Resonance Frequency
- \* 10-32 Removable Stud
- \* Case Grounded
- \* Top or Side Connector

Models VS-102 and VS-507 are Piezoelectric Accelerometers designed for calibration of back-to-back working standards and reference standards built into shakers. These sensors are optimized for stability and a nominally flat frequency response and are available in two convenient sizes and sensitivities.

Both sensors are configured with a rugged stainless steel housing and a removable 10-32 mounting stud. The accelerometers are supplied with a 10' low noise cable assembly and certificate of calibration traceable to NIST. *Consult the factory for customized versions of these sensors.*



VS-102



VS-507

**Accessories Supplied:**

- (1) Miniature Cable Assembly, LNHT-10'
- (1) 10-32 x 0.375" L Mounting Stud, St Stl
- (1) Hardwood Storage Case
- (1) Standard Calibration Data
- (1) Certificate of Calibration Traceable to N.I.S.T.

**Specifications**

Transfer / Electrical	VS-102	VS-507
Charge Sensitivity <sup>1</sup>	1.5 pC/g	7.0 +/-1.5 pC/g
Capacitance	85 pF	525 +/-50 pF
Frequency Linearity <sup>2</sup>	+/-0.5% Max, 5 Hz To 1,000 Hz +/-2% Max, 1 Hz To 3,000 Hz +/-5% Max., 5 Hz to 10,000 Hz	
Mounted Resonant Frequency	50 KHz, Nom.	60 KHz, Nom.
Transverse Sensitivity	<3%	
Amplitude Linearity	+/-0.5%, 0.5 g to 20 g +/-1.0%, 20 g to 100 g +/-1.5%, 100 g to 500 g	
Insulation Resistance	20,000 M Ohm Min, 50 VDC Test	
Isolation Resistance	0 (Case Ground)	
<b>Environmental</b>		
Vibration Limit	500 g Max (Sine)	1,000 g Max (Sine)
Temperature Range	Laboratory-Controlled Environment	
Humidity <sup>3</sup>	0 To 98% R.H. (Non-Condensing)	
Base Strain Sensitivity	0.05 g/uE Equiv, Typical	
Electromagnetic Sensitivity	0.01 g (Equiv / 100 Gauss)	
Acoustic Sensitivity	0.01 g RMS (Equiv @ 150 dB SPL)	
<b>Physical</b>		
Size	0.625 In. Hex x 0.700 In. H (15.9 mm Hex x 17.8 mm H)	0.500 In. Hex x 0.550 In. H (12.7 mm Hex x 14.0 mm H)
Weight	0.7 Oz (21 Gm)	0.5 Oz (14 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; Lower Frequency Limit is Determined by Associated Electronics
- <sup>2</sup> Referenced to Sensitivity @ 100 Hz.
- <sup>3</sup> With Connector Protected or Sealed, Unit is Epoxy Sealed