



Standard High g Accelerometer

Features

- 10 mV/g for high acceleration measurements
- Integral cable
- Exclusive injection molded composite body
- Unique throughbolt mounting design
- Isolated symmetrical shear mode sensing

Applications

- General Industrial
- Motors/Generators
- Pumps
- Gears/Bearings
- Rollers
- Experimental
- Fans/Cooling Towers
- Wayside (Railroad)
- Compressors
- Machining Centers

Operating Specifications

Dynamic

Sensitivity @ 100 Hz, ±1 dB	10 mV/g	1.0 mV/ (m/s ²)
Frequency Range ±1 dB	5 Hz – 5.5 kHz	
Turn-on Time (2% of final bias)	0.3 seconds	
Amplitude Range	±500 g	
Mounted Resonance	>18 kHz	
Transverse Sensitivity	<5%	
Amplitude Linearity	<1%	

Electrical

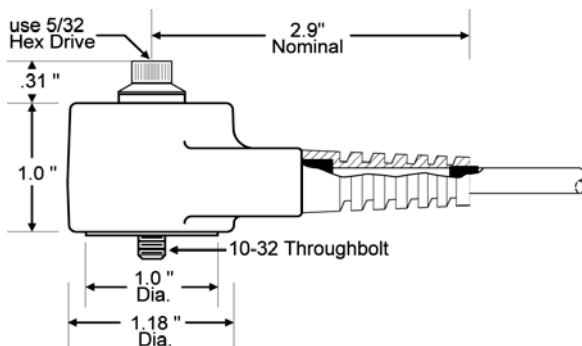
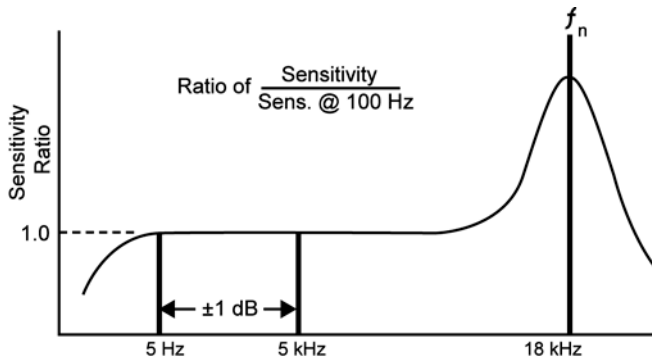
Noise (typical)		
Broadband	1 Hz to 10 kHz	3000 µg rms
Spectral	10 Hz	280 µg/√Hz
	100 Hz	80 µg/√Hz
	1000 Hz	40 µg/√Hz
Output Impedance		100 Ω (nom.)
Isolation		Isolated, >100 Meg Ω
Noise Rejection (EMI/RFI)		>52 dB
Bias Volts (nominal)		12 VDC
Power Requirements		24-30 VDC
Current Regulating Diode		1-8 mA cc

Environmental

Temperature Range	-10 to 200°F / -20 to 95°C
Base Strain	.001 g peak/µstrain
Thermal Shock	<.0002 g peak/°C
Shock Limit	5000 g

Physical

Physical Dimensions	1.0" h x 1.2" dia. (2.5 x 3 cm)
Weight	1.6 oz / 45 grams plus cable
Case Material	Inner Housing: Stainless steel (welded) Molded Jacket: Composite polymer
Design	Isolated shear
Seal	Electron-beam welded plus injection molded encapsulant
Mounting	10-32 captive throughbolt
Mounting Torque	20 in-lb (2.2 N-m)
Cable/Connector	PVC to BNC or Pigtail
Cable Pull Strength	40 lb.



Ordering Information:

Model 7002HGP (Pigtail)	9356962
Model 7002HGB (BNC)	9356961
Power Supplies, 2 mA output, BNC/BNC	
Model P1000B, battery, 15 VDC	9353528
Model LP24-1B, 110 VAC line input, 24 VDC	9356120
Model P5000, rechargeable battery, 24 VDC	9356559
Magnetic holder, 16 lb holding force, 10-32	9356816
Magnetic holder, 35 lb holding force, 10-32	9353449

Sensors include:

NIST Traceable Calibration, 15' Cable Assembly, Mounting Throughbolt, Adhesive Mounting Pad, User Manual and 2-Year Warranty

For more information about **Vibra-Metrics** accelerometers, call us today at **609-716-4130**, or visit us on-line at **www.vibrametrics.com**



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