



Standard Industrial Accelerometer

Features

- 100 mV/g
- Integral cable
- Exclusive injection molded composite body
- Unique throughbolt mounting design
- Isolated symmetrical shear mode sensing

Applications

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

Operating Specifications

Dynamic

Sensitivity @ 100 Hz, ±10%	100 mV/g	10.2 mV/(m/s ²)
Frequency Range		
±5%	5 Hz – 5 kHz	
±10%	3.5 Hz – 7 kHz	
±3 dB	2 Hz – 8 kHz	
Turn-on Time (2% of final bias)	<0.3 seconds	
Amplitude Range (at 72°F)	±65 g	
Mounted Resonance	18 kHz	
Transverse Sensitivity	<5%	
Amplitude Linearity	<1%	

Electrical

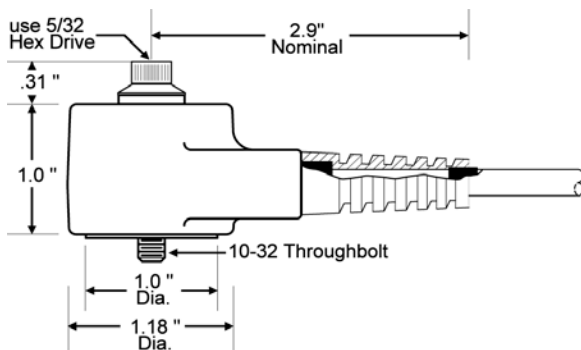
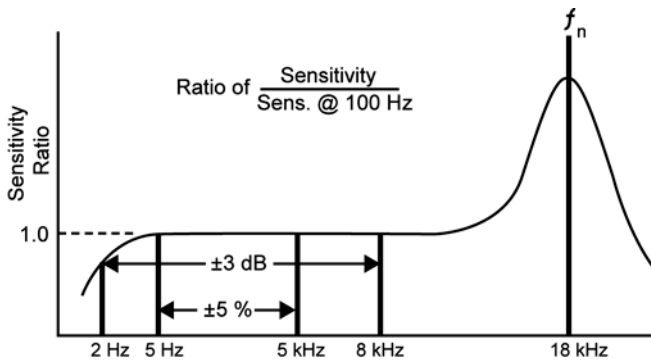
Noise (typical)		
Broadband	2.5 Hz to 25 kHz	300 µg rms
Spectral	10 Hz	28 µg/√Hz
	100 Hz	8 µg/√Hz
	1000 Hz	4 µg/√Hz
Output Impedance		100 Ω (nom.)
Isolation		Isolated, >100 Meg Ω
Noise Rejection (EMI/RFI)		>52 dB
Bias Volts (nominal)		12 VDC
Power Requirements		24-30 VDC
Current Regulating Diode		1-6 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	Welded stainless steel with composite polymer
Design	Isolated shear
Seal	Injection molded encapsulant
Mounting	10-32 captive throughbolt
Mounting Torque	20 in-lb (2.2 N-m)
Cable/Connector	PVC to BNC or Pigtail



Ordering Information:

Model 7002P (Pigtail)	9356888
Model 7002B (BNC)	9356887
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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