



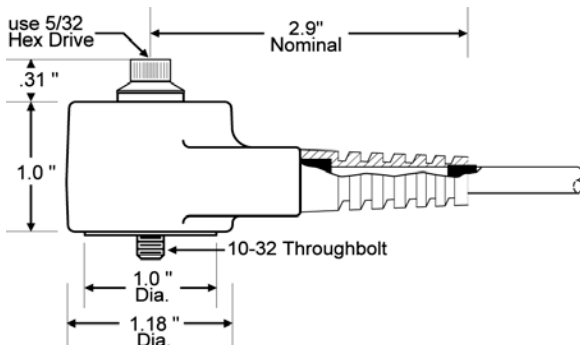
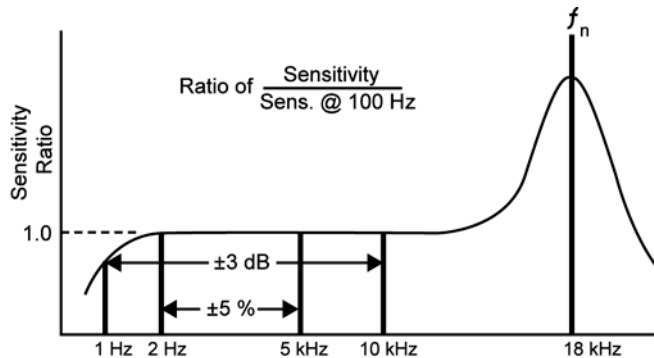
## Premium Accelerometer for Permanent Installation

### Features

- 100 mV/g
- Integral TUFKEM chemical resistant cable
- Exclusive injection molded composite body
- Unique throughbolt mounting design
- Excellent signal-to-noise ratio
- Isolated symmetrical shear mode sensing

### Applications

- Severe Chemical Presence
- Heavy Industrial
- Cooling Towers
- Gears/Bearings
- Machining Centers



### Operating Specifications

#### Dynamic

Sensitivity @ 100 Hz, ±5%	100 mV/g	10.2 mV/(m/s <sup>2</sup> )
Frequency Range	±5%	2 Hz - 5 kHz
	±10%	1.7 Hz - 7 kHz
	±3 dB	1 Hz - 10 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	200 µg rms
Spectral	10 Hz	20 µg/√Hz
	100 Hz	4 µg/√Hz
	1000 Hz	2 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	-40 to 250°F / -40 to 121°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	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	TUFKEM® cable to BNC or Pigtail

#### Ordering Information:

Model 8002P (Pigtail)	9356901
Model 8002B (BNC)	9356900
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 Lifetime Partnership 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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Due to continuing improvement, Vibra-Metrics reserves the right to amend specifications without notice.  
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