



## High Output Seismic Accelerometer

### Features

- 5000 mV/g minimum output
- Ultra-low noise
- Ultra-low frequency
- Removeable 1/4-28 mounting stud

### Applications

- Seismic/Mining
- Building/Structural
- Bridges
- Experimental
- Wafer Fabrication
- Precision Printing
- Microscopes

### Operating Specifications

#### Dynamic

Sensitivity, minimum @ 50 Hz	5,000 mV/g	510 mV/(m/s <sup>2</sup> )
Frequency Range	±5%	.1 Hz – 180 Hz
	±10%	.07 Hz – 200 Hz
	±3 dB	.03 Hz – 240 Hz
Turn-on Time		<120 seconds
Amplitude Range		±0.7 g
Mounted Resonance		600 Hz
Transverse Sensitivity		<5%

#### Electrical

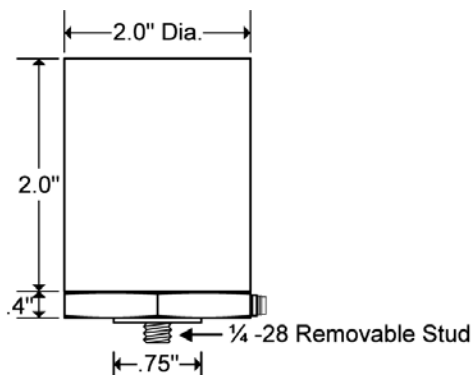
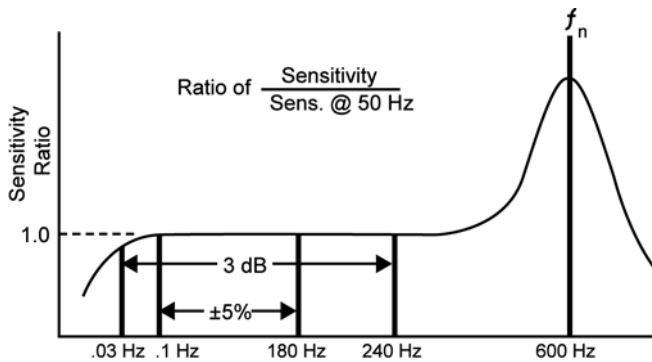
Noise		
Broadband	2.5 Hz to 25 kHz	2.8 µg (rms)
Spectral	10 Hz	.09 µg/√Hz
	100 Hz	.03 µg/√Hz
Output Impedance (nominal)		1000 Ω
Isolation		Isolated, >100 Meg Ω
Bias Volts (nominal)		7 VDC
Power Requirements		15-30 VDC
Current Regulating Diode		1-6 mA cc

#### Environmental

Temperature Range	-40 to 250°F	-40 to 121°C
Base Strain		.001 g peak/µstrain
Shock Limit		80 g

#### Physical

Physical Dimensions	2.5" h x 2" flats (6.4 x 5.1 cm)
Weight	430 grams
Case Material	Hard anodized aluminum
Design	Proprietary Mechanical
Seal	Epoxy
Mounting	1/4-28 removable stud
Mounting Torque	35 in-lb (3.9 N-m)
Connector	Side coaxial (SMA)



### Ordering Information:

Model 1030	9353370
Power Supplies, 2 mA output, BNC/BNC	
Model P1000B, battery powered, 15 VDC	9353528
Model LP24-1B, 110 VAC line input, 24 VDC	9356120
Model P5000, rechargeable battery, 24 VDC	9356559
Cable, SMA/BNC, 6'	9354049

#### Sensors include:

NIST Traceable Calibration, Mounting Stud, User Manual, 1-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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