



High Temperature Accelerometer for Permanent Installation

Features

- 100 mV/g
- Integral TUFKEM chemical resistant cable
- Exclusive molded composite encapsulant
- Unique throughbolt mounting design
- Optional intrinsically safe FM certification
- Extended to 350°F with thermal isolator

Applications

- Severe, High Temperature Chemical Presence
- Atomizers
- Gears/Bearings
- Heavy Industrial
- Cooling Towers

Operating Specifications

Dynamic

Sensitivity @ 100 Hz, ±10%	100 mV/g	10.2 mV/ (m/s ²)
Frequency Range	±5%	5 Hz - 5 kHz
	±10%	4 Hz - 6 kHz
	±3 dB	2 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

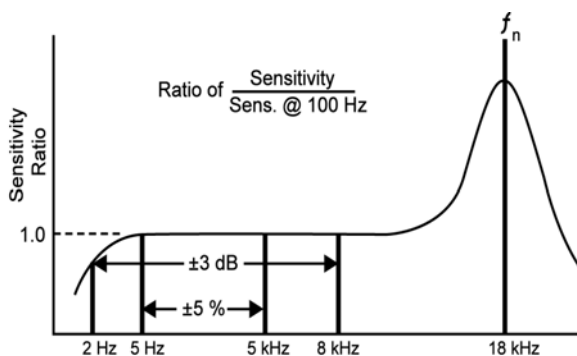
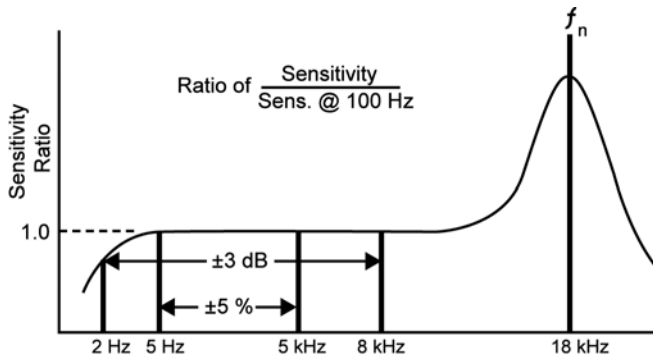
Noise (typical)		
Broadband	2.5 Hz to 25 kHz	380 µg rms
Spectral	10 Hz	32 µg/√Hz
	100 Hz	8 µg/√Hz
	1000 Hz	3.5 µg/√Hz
Output Impedance		<100 Ω
Isolation		Isolated, >100 Meg Ω
Noise Rejection (EMI/RFI)		>52 dB
Bias Volts (nominal)		12 VDC
Power Requirements		24-30 VDC
Current Regulating Diode		1-6 mA cc

Environmental

Temperature Range	-40 to 300°F / -40 to 170°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	Welded Hermetic Seal
Mounting	10-32 captive throughbolt
Mounting Torque	25 in-lb
Cable/Connector	TUFKEM® cable to BNC or Pigtail
Cable Pull Strength	40 lb. typ.



Ordering Information:

Model 8002CP (Pigtail)	9356999
Model 8002CB (BNC)	9356998
Model 8002CFMP (Pigtail)	9356931
Model 8002CFMB (BNC)	9356930
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

Thermal isolator	9356736-10, -14
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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