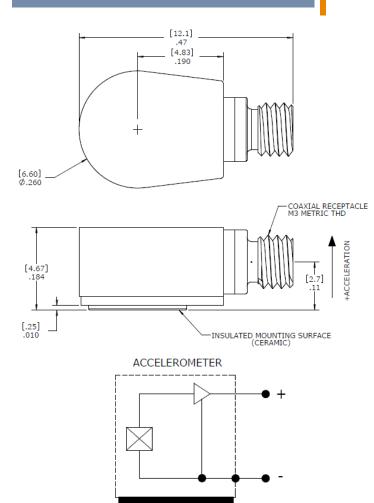






DIMENSIONS



MODEL 7102A ACCELEROMETER

SPECIFICATIONS

- IEPE Accelerometer
- Wide Bandwidth to >11kHz
- M3 Side Connector
- Miniature, Lightweight (<1gm)

The Model 7102A is a miniature adhesive mount IEPE accelerometer available in ±50g to ±2000g dynamic ranges. The accelerometer features a welded hermetic Titanium construction with an M3 connector. The model 7102A accelerometer has an operating range of -55°C to +125°C and a flat frequency response to greater than 11kHz. The miniature and light weight Titanium package renders the accelerometer ideal for applications requiring minimal mass loading.

FEATURES

- ±50g to ±2000g Dynamic Range
- Wide bandwidth up to 11kHz
- Welded Titanium
- Hermetically Sealed
- -55°C to +125°C Operating Range
- Annular Shear Mode
- Isolated from Mounting Surface

APPLICATIONS

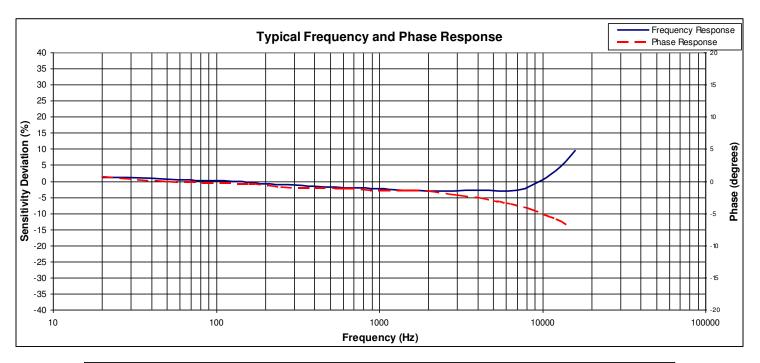
- Vibration & Shock Monitoring
- Laboratory Testing
- Modal Applications
- High Frequency Applications
- Small Structures Monitoring

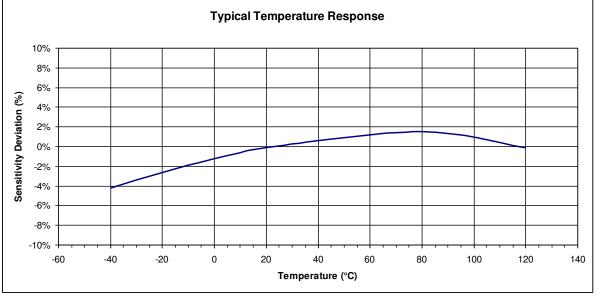
PERFORMANCE SPECIFICATIONS

All values are typical at $+24^{\circ}$ C, 80Hz and 4mA excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters DYNAMIC Range (g) Sensitivity (mV/g) Frequency Response (Hz) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g) Residual Noise (g RMS)	±50 100 2.5-8000 1-10000 48000 ±1 <5 5000 0.0004	±100 50 1.5-8000 0.8-10000 48000 ±1 <5 5000 0.0005	±500 10 1-8000 0.5-10000 48000 ±1 <5 5000 0.0012	±2000 2.5 1-9000 0.5-11000 48000 ±1 <5 5000 0.0032	Notes ±15% ±10% ±2dB Broadband 1Hz to 10kHz	
ELECTRICAL Compliance Voltage (Vdc) Excitation Current (mA) Bias Voltage (Vdc) Bias Voltage (Vdc) Output Impedance (Ω) Full Scale Output Voltage (Discharge Time Constant (s Ground Isolation	sec) 0.8 to 1.2	m Mounting Surfa	ace		Room Temperature -55 to +125°C	
ENVIRONMENTALTemperature Response (%)See Typical Temperature Response CurveOperating Temperature (°C)-55 to +125Storage Temperature (°C)-55 to +125HumidityHermetically Sealed, IP67						
PHYSICAL Sensing Element Case Material Electrical Connector Weight (grams) Mounting	Titanium	M3 Coaxial Receptacle 0.9				
Calibration supplied:	CS-FREQ-0100	REQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±2dB Frequency Response Limit				
Optional accessories:	311-XXX 311M2-XXX 161A AC-A04839	Cable Assembly, M3 to BNC (XXX designates length in inches, 10ft standard) Cable Assembly, M3 to 10-32 (XXX designates length in inches, 10ft standard) 4-Channel PE & IEPE Signal Conditioner, Bench Top Triaxial Mounting Block				

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ORDERING INFORMATION

PART NUMBERING Model Number+Range

7102A-GGGG

Range (0050 is 50g)

Example: 7102A-0050 Model 7102A, 50g



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