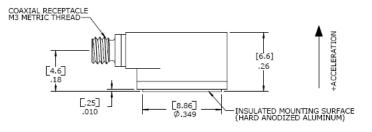
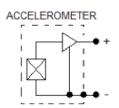




DIMENSIONS

[15.2] .60 (10.16] .250 (0.400 (2.39] Ø.094 THRU





MODEL 7101A ACCELEROMETER

SPECIFICATIONS

- IEPE Accelerometer
- Wide Bandwidth to 10kHz
- M3 Side Connector
- Miniature, Lightweight (2.4gm)

The Model 7101A is a miniature, high performance IEPE accelerometer available in \pm 50g to \pm 1000g dynamic ranges. The accelerometer is designed for high frequency vibration and shock measurements and offers a wide bandwidth to >10kHz utilizing stable piezo-ceramic crystals in annular shear mode. The model 7101A features a hermetically sealed titanium housing and the popular through hole mount configuration. The standard operating temperature range extends from -55°C to +125°C.

FEATURES

- ±50g to ±1000g Dynamic Range
- Wide bandwidth up to 10kHz
- Welded Construction, Titanium
- Hermetically Sealed
- Annular Shear Mode
- Stable Temperature Response
- Miniature, Through-Hole Mount

APPLICATIONS

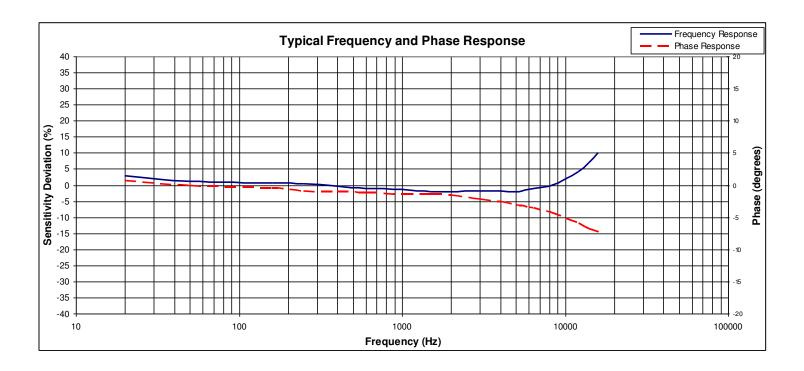
- Vibration & Shock Monitoring
- Laboratory Testing
- Modal Applications
- High Frequency Applications
- General Purpose Usage

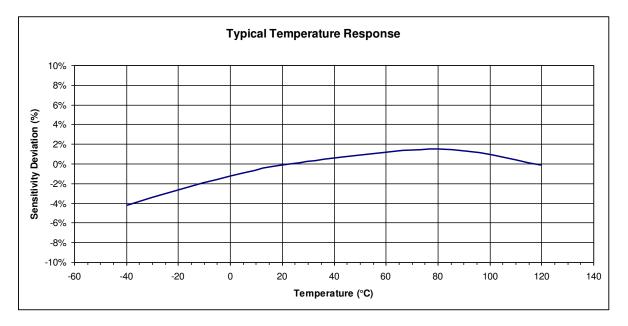
PERFORMANCE SPECIFICATIONS

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)	±50 100 1-8000 0.5-10000 >50000 ±1 <5 5000	±500 10 1-8000 0.5-10000 >50000 ±1 <5 5000	±1000 5 1-8000 0.5-10000 >50000 ±1 <5 5000	Notes ±10% ±5% ±1dB	
ELECTRICALCompliance Voltage (Vdc)Excitation Current (mA)Bias Voltage (Vdc)Bias Voltage (Vdc)Output Impedance (Ω)Full Scale Output Voltage (V)Residual Noise (g RMS)Discharge Time Constant (see Ground Isolation	18 to 30 2 to 10 8 to 12 6 to 14 <100 ±5 0.0004 c) 0.8 to 1.2	18 to 30 2 to 10 8 to 12 6 to 14 <100 ±5 0.0008	18 to 30 2 to 10 8 to 12 6 to 14 <100 ±5 0.001	Room Temperature -55 to +125°C Broadband 1Hz to 10kHz	
ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C) Humidity	e (°C) -55 to +125				
PHYSICAL Sensing Element Case Material Electrical Connector Weight (grams) Mounting Mounting Torque	Titanium M3 Coaxial I 2.4 #2-56 Insula	M3 Coaxial Receptacle			
Calibration supplied:	CS-FREQ-0100	100 NIST Traceable Amplitude Calibration from 20Hz to ±1dB Frequency Response Limit			
Supplied accessories:	AC-A03230	1x #2-56 Insulated Mounting Screw Assembly (7/16 inch length)			
	311-XXX AC-A04018 161A	Cable Assembly, M3 to BNC (XXX designates length in inches, 10ft standard) Triaxial Mounting Block 4-Channel PE & IEPE Signal Conditioner, Bench Top			

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ORDERING INFORMATION

PART NUMBERING Model Number+Range

7101A-GGGG

I_____ Range (0050 is 50g)

Example: 7101A-0050 Model 7101A, 50g





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