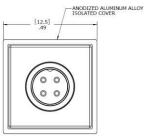


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## **MODEL 7131A ACCELEROMETER**

#### **SPECIFICATIONS**

- Triaxial IEPE Accelerometer
- Miniature Cube
- Hermetically Sealed, Titanium
- ±50g to ±2000g Dynamic Ranges

**The Model 7131A** is a miniature triaxial IEPE accelerometer available in  $\pm 50$ g to  $\pm 2000$ g dynamic ranges. The accelerometer features a hermetically sealed Titanium construction with a 4-pin Microtech connector interface. The model 7131A incorporates stable piezo-ceramic crystals in annular shear mode which provide a flat frequency response up to >10kHz.

### FEATURES

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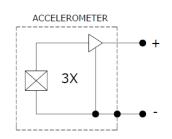
PIN 1 GROUND

PIN 2 Y-AXIS

- 4-pin Connector Interface
- Wide bandwidth up to 10kHz
- Adhesive Mounting
- Miniature Triaxial
- Annular Shear Mode Crystals
- Stable Temperature Response
- Isolated Case Option

#### **APPLICATIONS**

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

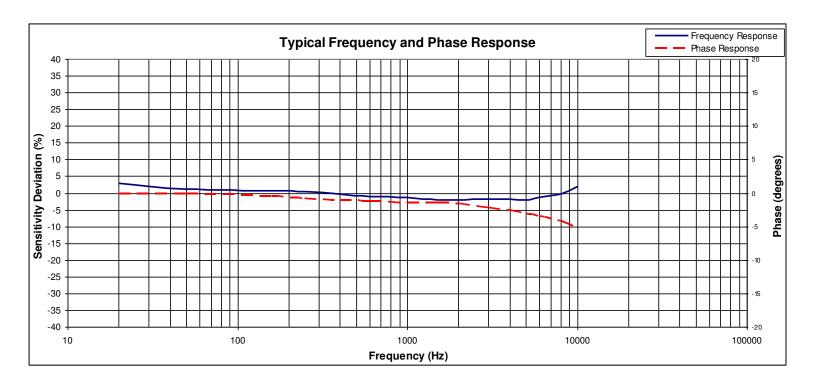


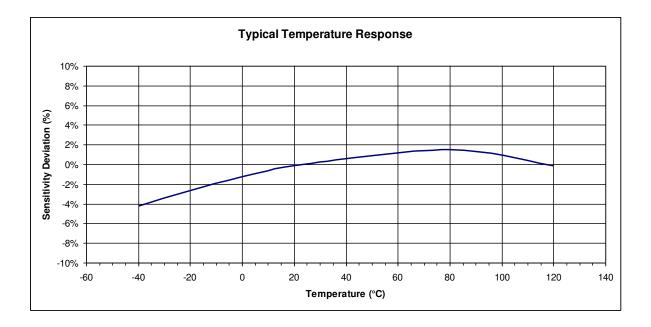
#### PERFORMANCE SPECIFICATIONS

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

Parameters <b>DYNAMIC</b> 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 43000 ±1 <5 5000 0.0004	±100 50 1.5-8000 0.8-10000 43000 ±1 <5 5000 0.0005	±200 25 1.5-8000 0.8-10000 43000 ±1 <5 5000 0.0008	±500 10 1-8000 0.5-10000 43000 ±1 <5 5000 0.0012	±2000 2.5 1-9000 0.5-11000 43000 ±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 ( Ground Isolation	sec) 0.8 to 1.2	ded (Case Isola	tion option; see	ordering info or	n page 3)	Room Temperature -55 to +125°C
Operating Temperature (°C)-55 to +125Storage Temperature (°C)-55 to +125HumidityHermetically		Temperature Re	esponse Curve			
PHYSICAL Sensing Element Case Material Electrical Connector Weight (grams) Mounting	G Element     Ceramic (shear mode)       Material     Titanium       cal Connector     4-Pin Receptacle       t (grams)     6.0 (7.3 for Isolated Case Option)					
Calibration supplied: Optional accessories:	CS-FREQ-0100 315-XXX 161A	Cable Assemb 4-Channel PE	bly, 4-pin ¼-28 t & IEPE Signal	o 3x BNC (XXX Conditioner	designates ler	requency Response Limit ngth in inches, 10ft standard)
	AC-A04025	Adnesive Mou	inting Adaptor (f	or -u2 thread of	ວແບກ)	

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#### **ORDERING INFORMATION**

PART NUMBERING Model Number+Range

7131A-GGGG-XX

	I Optional Dash Number
I	_Range (0050 is 50g)

Example: 7131A-0050 Model 7131A, 50g, No Option

Dash Number	Thread Options
-01	M2.5 x 0.45 6g
-02	#5-40 UNF-2B
-03	Case Isolated



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