

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 ± 50 g to ± 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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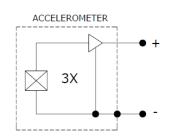
PIN 1 GROUND

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

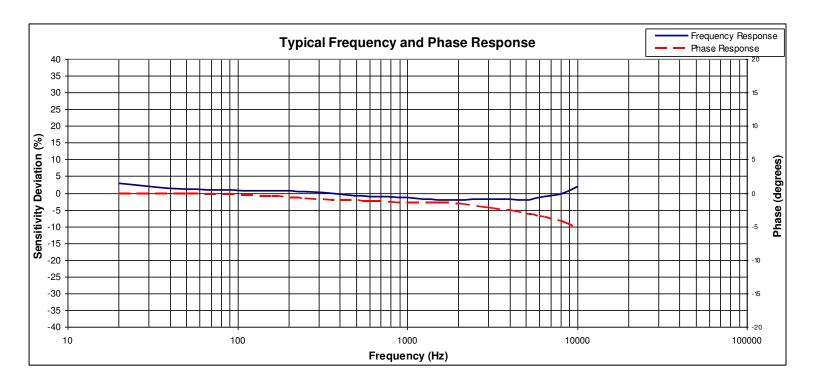


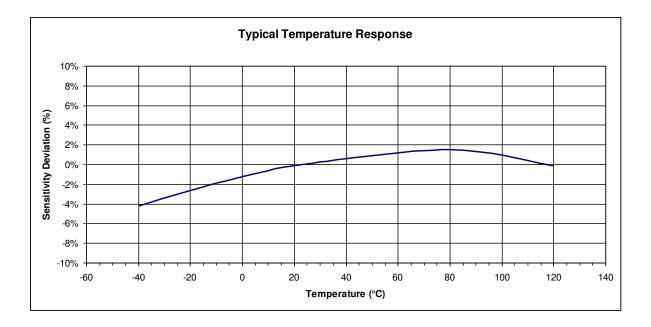
PERFORMANCE SPECIFICATIONS

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 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 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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