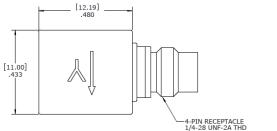


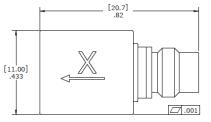


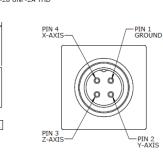
ROHS (E

## DIMENSIONS

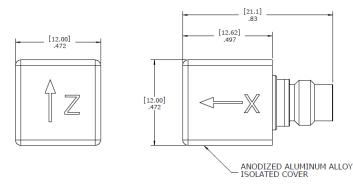
#### 7131AT Dimensions







#### **Isolated Case Dimensions**



# **MODEL 7131AT ACCELEROMETER**

## **SPECIFICATIONS**

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

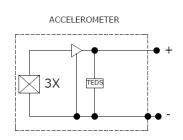
**The Model 7131AT** is a miniature triaxial IEPE accelerometer available in  $\pm$ 50g to  $\pm$ 2000g dynamic ranges. The accelerometer features a hermetically sealed Titanium construction with a 4-pin Microtech connector interface and is TEDS 1451.4 compliant. The model 7131A incorporates stable piezo-ceramic crystals in annular shear mode which provide a flat frequency response up to >10kHz.

### FEATURES

- 4-pin Connector Interface
- Wide bandwidth up to 10kHz
- TEDS 1451.4
- 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

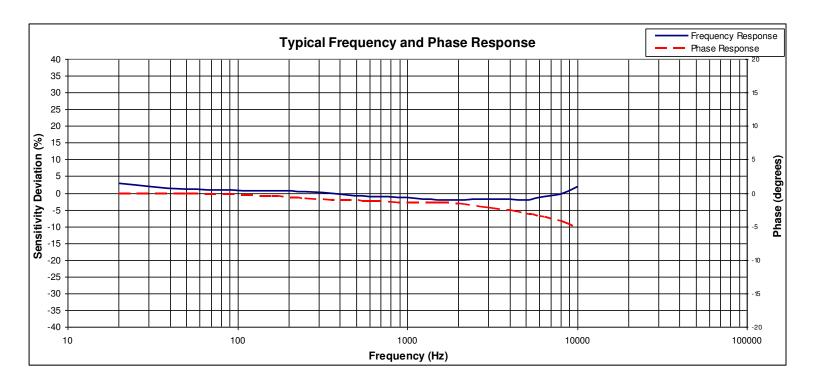


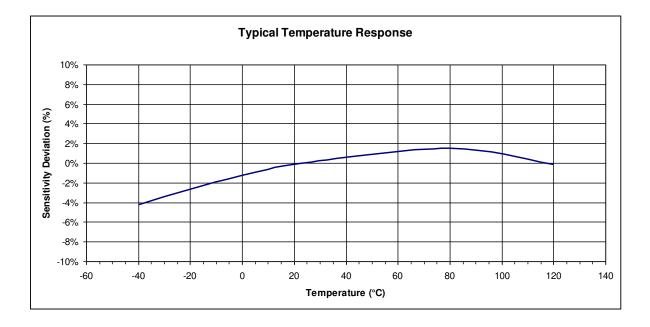
## PERFORMANCE SPECIFICATIONS

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> Dash Number (GG) 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)	-51 $\pm 50$ 100 2.5-8000 1-10000 43000 $\pm 1$ < 5 5000 0.0004	-12 ±100 50 1.5-8000 0.8-10000 43000 ±1 <5 5000 0.0005	-22 ±200 25 1.5-8000 0.8-10000 43000 ±1 <5 5000 0.0008	-52 ±500 10 1-8000 0.5-10000 43000 ±1 <5 5000 0.0012	-23 ±2000 2.5 1-9000 0.5-11000 43000 ±1 <5 5000 0.0032	Notes See Ordering Information ±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	
<b>ENVIRONMENTAL</b> Temperature Response (% Operating Temperature (°C Storage Temperature (°C) Humidity	Temperature Response Curve						
PHYSICAL Sensing Element Case Material Electrical Connector Weight (grams) Mounting	Titanium 4-Pin Recep 5.8 (6.6 for	Ceramic (shear mode) Titanium 4-Pin Receptacle 5.8 (6.6 for Isolated Case Option) Adhesive (stud mount option)					
Calibration supplied:	CS-FREQ-0100	00 NIST Traceable Amplitude Calibration from 20Hz to ±2dB Frequency Response Limit					
Optional accessories:	315-XXX 161A AC-A04025	Cable Assembly, 4-pin ¼-28 to 3x BNC (XXX designates length in inches, 10ft standard) 4-Channel PE & IEPE Signal Conditioner Adhesive Mounting Adaptor (for -02 thread option)					

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### **ORDERING INFORMATION**

PART NUMBERING Model Number+Range

7131AGG -XX

**Optional Dash Number** Range (51 is  $5x10^1 = 50g$ , 12 is  $1x10^2 = 100g$ ) Dash Number **Thread Options** -01 M2.5 x 0.45 6g -02 #5-40 UNF-2B -03 Case Isolated

Example: 7131A51 Model 7131AT, 50g, No Option



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