

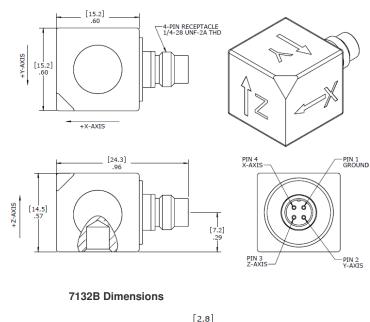


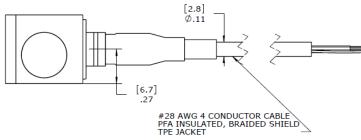
7132A Pictured



## DIMENSIONS

#### 7132A Dimensions





# MODEL 7132A & 7132B ACCELEROMETER

## **SPECIFICATIONS**

- Triaxial IEPE Accelerometer
- Miniature Cube
- Hermetically Sealed, Titanium
- ±10g to ±2000g Dynamic Ranges

**The Model 7132A** is a miniature triaxial IEPE accelerometer available in  $\pm 10$ g to  $\pm 2000$ g dynamic ranges. The accelerometer features a hermetically sealed titanium construction with a 4-pin Microtech connector interface. The model 7132A incorporates stable piezo-ceramic crystals in annular shear mode which provide a flat frequency response up to >12kHz. The model 7132B offers identical performance with an integral cable option.

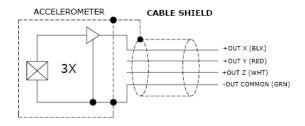
## FEATURES

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- -55°C to +125°C Operating Range
- Wide bandwidth up to 12kHz
- Adhesive Mounting
- Miniature Triaxial
- Annular Shear Mode Crystals
- Stable Temperature Response

## **APPLICATIONS**

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

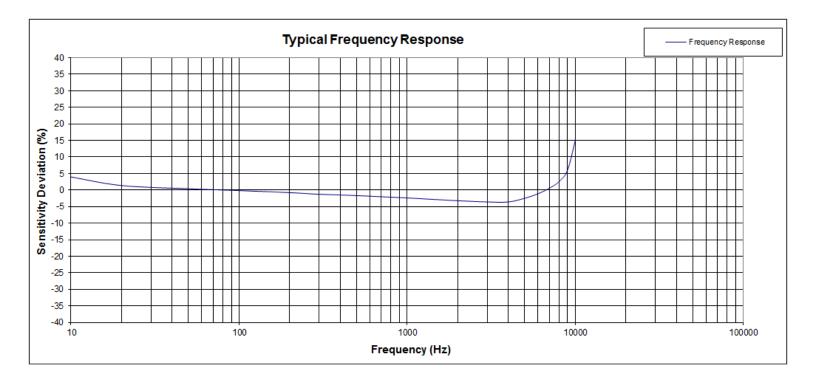


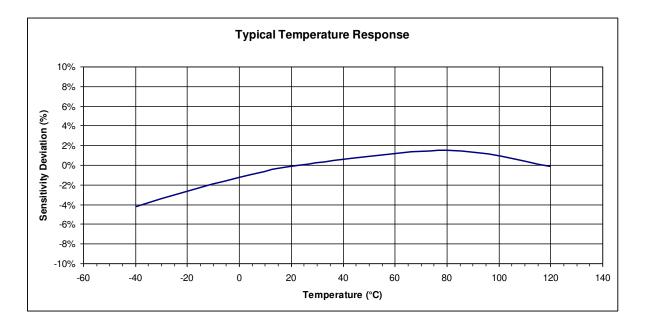
## PERFORMANCE SPECIFICATIONS

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 <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)	±10 500 2-6000 1.5-8000 37000 ±1 <5 5000 0.0003	±50 100 1-7000 0.4-9000 37000 ±1 <5 5000 0.0005	±100 50 1-7000 0.4-9000 37000 ±1 <5 5000 0.0006	±500 10 1-8000 0.4-10000 37000 ±1 <5 5000 0.001	±2000 2.5 1-10000 0.4-12000 42000 ±1 <5 5000 0.0025	Notes ±10% ±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		ded				Room Temperature -55 to +125°C
<b>ENVIRONMENTAL</b> Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C) Humidity	) -55 to +125 -55 to +125					
PHYSICAL Sensing Element Case Material Electrical Connector Weight Mounting	Titanium 7132A; 4-Pi 7132B; 4x # 15grams (50	Ceramic (shear mode) Titanium 7132A; 4-Pin Receptacle 7132B; 4x #28 AWG Conductors, Braided Shield, TPE Jacket 15grams (50g-2000g ranges), 20grams (10g range) Adhesive (stud mount option)				
Calibration supplied:	CS-FREQ-0100	NIST Traceable Amplitude Calibration from 20Hz to $\pm$ 2dB Frequency Response Limit				
Optional accessories:	315-XXX 161A AC-A03530	Cable Assembly, 4-pin ¼-28 to 3x BNC (XXX designates length in inches, 10ft standard) 4-Channel PE & IEPE Signal Conditioner Magnetic Mounting Adaptor (for -02 thread option)				

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### **ORDERING INFORMATION**

PART NUMBERING Model Number+Range

7132A-GGGG-XX		
I I I Optional Thread Dash Number	Dash Number	Thread Options
I I Range (0050 is 50g)	-01	M5 x 0.8 6g
Connection Option (A for 4-pin Microtech, B for integral cable)	-02	#10-32 UNF-2B
	-03	Case Isolated

Example: 7132A-0050

Model 7132A, 4-Pin Microtech Connector, 50g Range

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