

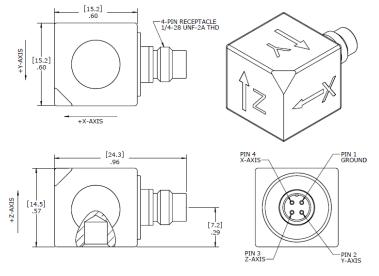
7132A Pictured



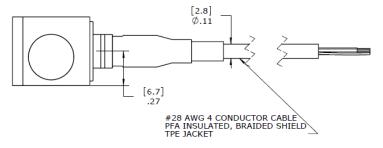


DIMENSIONS

7132A Dimensions



7132B Dimensions



MODEL 7132A & 7132B ACCELEROMETER

SPECIFICATIONS

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

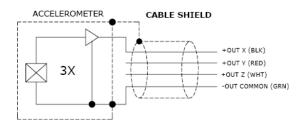
The Model 7132A is a miniature triaxial IEPE accelerometer available in ± 10 g to ± 2000 g dynamic ranges. The accelerometer features a hermetically sealed titanium construction with a 4-pin Microtech connector interface. The model 7132A incorporates stable piezo-ceramic crystals in annular shear mode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

FEATURES

- -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						
DYNAMIC						Notes
Range (g)	±10	±50	±100	±500	±2000	
Sensitivity (mV/g)	500	100	50	10	2.5	±10%
Frequency Response (Hz)	2-6000	1-7000	1-7000	1-8000	1-10000	±10%
Frequency Response (Hz)	1.5-8000	0.4-9000	0.4-9000	0.4-10000	0.4-12000	±2dB
Natural Frequency (Hz)	37000	37000	37000	37000	42000	
Non-Linearity (%FSO)	±1	±1	±1	±1	±1	
Transverse Sensitivity (%)	<5	<5	<5	<5	<5	
Shock Limit (g)	5000	5000	5000	5000	5000	
Residual Noise (g RMS)	0.0003	0.0005	0.0006	0.001	0.0025	Broadband 1Hz to 10kHz
ELECTRICAL						
Compliance Voltage (Vdc)	18 to 30					
Excitation Current (mA)	2 to 10					
Bias Voltage (Vdc)	8 to 12					Room Temperature

 $\begin{array}{lll} \text{Bias Voltage (Vdc)} & 6 \text{ to } 13 \\ \text{Output Impedance } (\Omega) & <100 \\ \text{Full Scale Output Voltage (V)} & \pm 5 \\ \text{Discharge Time Constant (sec)} & 0.8 \text{ to } 1.2 \\ \text{Ground Isolation} & \text{Case Grounded} \end{array}$

ENVIRONMENTAL

Temperature Response (%) See Typical Temperature Response Curve

Operating Temperature (°C) -55 to +125Storage Temperature (°C) -55 to +125

Humidity Hermetically Sealed, IP67

PHYSICAL

Sensing Element Ceramic (shear mode)

Case Material Titanium

Electrical Connector 7132A; 4-Pin Receptacle

7132B; 4x #28 AWG Conductors, Braided Shield, TPE Jacket

Weight 15grams (50g-2000g ranges), 20grams (10g range)

Mounting Adhesive (stud mount option)

Calibration supplied: CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±2dB Frequency Response Limit

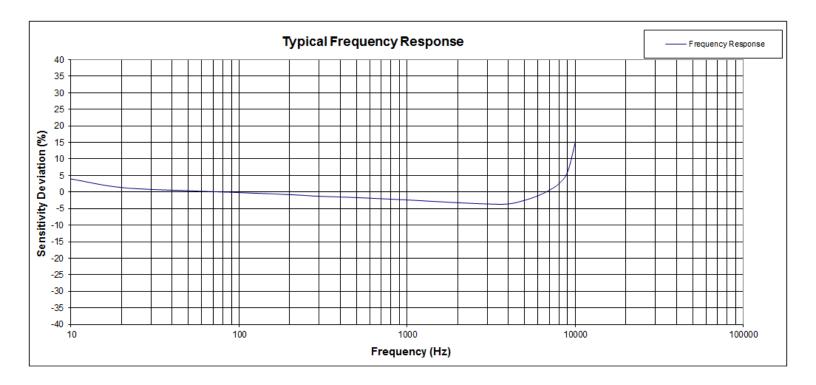
Optional accessories: 315-XXX Cable Assembly, 4-pin 1/4-28 to 3x BNC (XXX designates length in inches, 10ft standard)

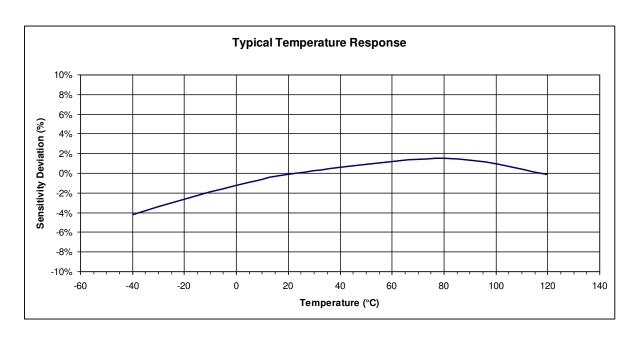
161A 4-Channel PE & IEPE Signal Conditioner

AC-A03530 Magnetic Mounting Adaptor (for -02 thread option)

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-55 to +125°C





MODEL 7132A & 7132B ACCELEROMETER

ORDERING INFORMATION

PART NUMBERING Model Number+Range

7132A-GGGG-XX Optional Thread Dash Number -Range (0050 is 50g)

Connection Option (A for 4-pin Microtech, B for integral cable)

Dash Number **Thread Options** -01 M5 x 0.8 6g -02 #10-32 UNF-2B -03 Case Isolated

Example: 7132A-0050

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

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