Model 7132A & 7132B Accelerometer



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

The Model 7132A is a miniature triaxial IEPE accelerometer available in ±10g to ±2000g 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.

> -55℃ to +125℃ Operating Range Wide bandwidth up to 12kHz

Annular Shear Mode Crystals

Vibration & Shock Monitoring

High Frequency Applications

General Purpose Usage

Stable Temperature Response

Adhesive Mounting

Laboratory Testing Modal Applications

Stress Screening

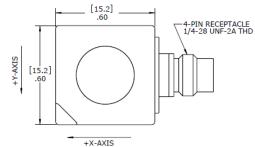
Miniature Triaxial

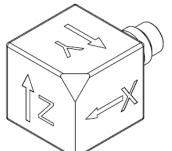


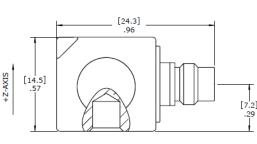
7132A Pictured

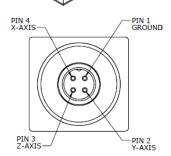
dimensions

7132A Dimensions

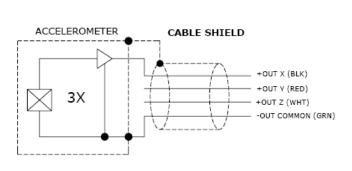








7132B Dimensions





FEATURES

APPLICATIONS

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#28 AWG 4 CONDUCTOR CABLE PFA INSULATED, BRAIDED SHIELD TPE JACKET

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performance specifications

All values are typical at +24 °C, 100Hz and 4mA excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice. Standard product parameters are described in PSC-1003 for Plug & Play AC Accelerometers.

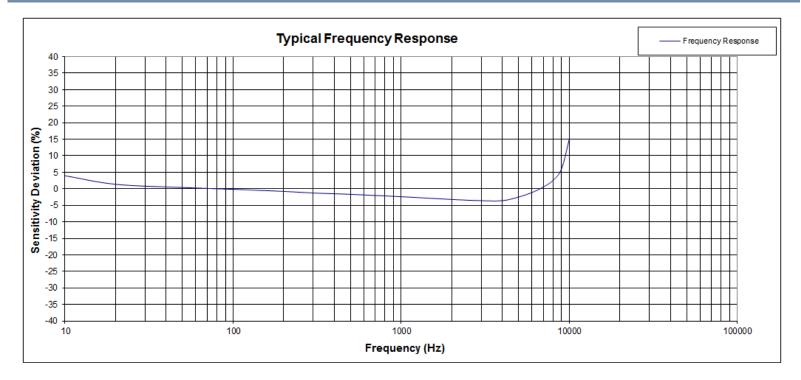
Parameters DYNAMIC Range (g) Sensitivity (mV/g) Frequency Response (Hz) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g) Residual Noise (g RMS)	±10 500 2-6000 1.5-8000 37000 ±1 <5 5000 0.0003	±50 100 1-7000 0.4-9000 37000 ±1 <5 5000 0.0005	±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 (V) Discharge Time Constant (see Ground Isolation		nded				Room Temperature -55 to +125℃	
ENVIRONMENTAL Temperature Response (%) Operating Temperature (℃) Storage Temperature (℃) Humidity	See Typical Temperature Response Curve -55 to +125 -55 to +125 Hermetically Sealed, IP67						
PHYSICAL Sensing Element Case Material Electrical Connector Weight Mounting	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	S-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±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)					

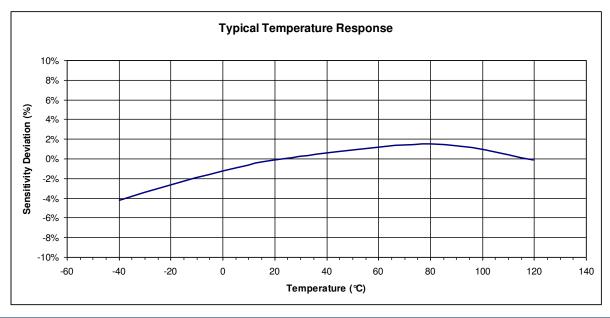
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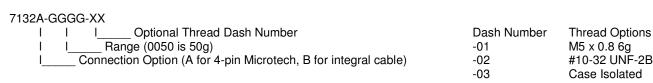
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performance specifications





ordering info



Example: 7132A-0050

PART NUMBERING

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

Model Number+Range