Model 7132AHT Accelerometer



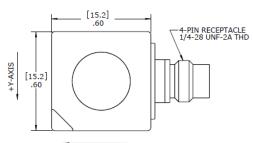
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Triaxial IEPE Accelerometer -55°C to +163°C Range Hermetically Sealed, Titanium ±50g to ±500g Dynamic Ranges

The Model 7132AHT is a high temperature miniature triaxial IEPE accelerometer available in \pm 50g to \pm 500g dynamic ranges. The accelerometer features a hermetically sealed titanium construction with a 4-pin Microtech connector interface. The model 7132HT incorporates stable piezo-ceramic crystals in annular shear mode with an operating temperature range of -55°C to +163°C. The accelerometer offers a flat frequency response up to >10kHz.

dimensions

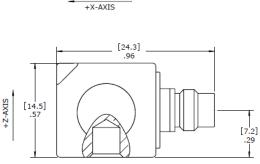


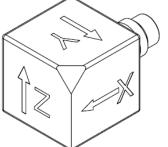
FEATURES

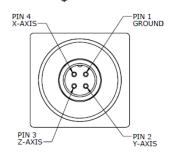
- 4-pin Connector Interface
- Wide bandwidth up to 10kHz
- Adhesive or Stud Mounting
- -55°C to +163°C Operating Range
- Annular Shear Mode Crystals
- Stable Temperature Response

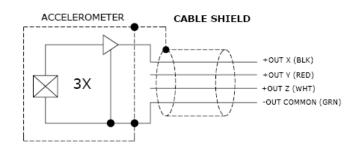
APPLICATIONS

- Vibration & Shock Monitoring
- Laboratory Testing
- High Temperature Testing
- High Frequency Applications
- General Purpose Usage
- Automotive Testing









Model 7132AHT Accelerometer



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. Standard product parameters are described in PSC-1003 for Plug & Play AC Accelerometers.

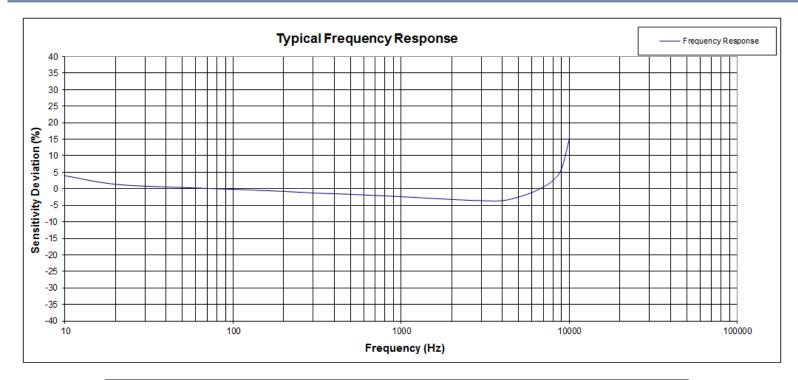
Parameters DYNAMIC Range (g) Sensitivity (mV/g) Frequency Response (Hz) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g)	±50 100 1.5-6000 0.8-8000 37000 ±1 <5 5000	±100 50 1.5-6000 0.8-8000 37000 ±1 <5 5000	±500 10 1.5-7000 0.8-9000 37000 ±1 <5 5000	±2000 2.5 1.5-8000 0.8-10000 37000 ±1 <5 5000	Notes ±10% ±10% ±2dB
ELECTRICAL Compliance Voltage (Vdc) Excitation Current (mA) Bias Voltage (Vdc) Bias Voltage (Vdc) Output Impedance (Ω) Full Scale Output Voltage (V) Residual Noise (g RMS) Warm-up Time (sec) Ground Isolation ¹	22 to 30 2 to 10 9 to 13 6 to 15 <100 ±5 0.001 <1.5 Case Grou	22 to 30 2 to 10 9 to 13 6 to 15 <100 ±5 0.0012	22 to 30 2 to 10 9 to 13 6 to 15 <100 ±5 0.002	22 to 30 2 to 10 9 to 13 6 to 15 <100 ±5 0.005	Room Temperature -55 to +163°C Broadband 1Hz to 10kHz To Within 10% of Bias
ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C) Humidity					
PHYSICAL Sensing Element Case Material Electrical Connector Weight (grams) Mounting	Ceramic (shear mode) Titanium 4-Pin Receptacle 15 (17 for -03 Case Isolation option) Adhesive or Stud Mount Option				
 ¹ For Isolated Case Order the -03 Option. Calibration supplied: CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±2dB Frequency Response Limit 					
Calibration supplied: Optional accessories:	315HT-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)			

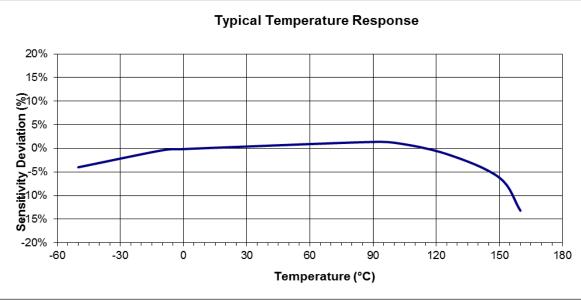
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Model 7132AHT Accelerometer

performance specifications





ordering info

PART NUMBERING Model Number+Range

7132AHT-GGGG-XX

I_____ Optional Thread Dash Number ___ Range (0050 is 50g) Dash NumberThread Options-01M5 x 0.8 6g-02#10-32 UNF-2B-03Case Isolated

Example: 7132AHT-0050 Model 7132AHT, 50g, No Option