

Triaxial IEPE Accelerometer Case Isolated, Internally Shielded Hermetically Sealed, Titanium ±50g to ±500g Dynamic Ranges

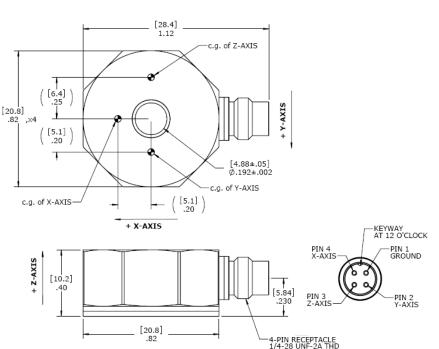
**The Model 7134A** is a true case isolated triaxial IEPE accelerometer available in ±50g to ±500g dynamic ranges. The accelerometer features three internally shielded accelerometer assemblies for superior noise isolation. The assemblies are installed in a hermetically sealed light weight Titanium housing with a 4-pin Microtech connector interface. The model 7134A features piezo-ceramic crystals in annular shear mode which provide a flat frequency response up to >7kHz.



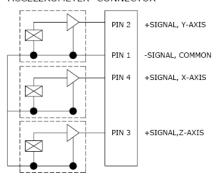
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### dimensions



#### ACCELEROMETER CONNECTOR



### **FEATURES**

- 4-pin Connector Interface
- Wide bandwidth up to 7kHz
- Screw Mounting
- Titanium, Light Weight
- Annular Shear Mode Crystals
- Stable Temperature Response

#### **APPLICATIONS**

- Vibration & Shock Monitoring
- Laboratory Testing
- Health Usage Monitoring Systems
- Flight Testing
- Harsh Environments



# Model 7134A 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.

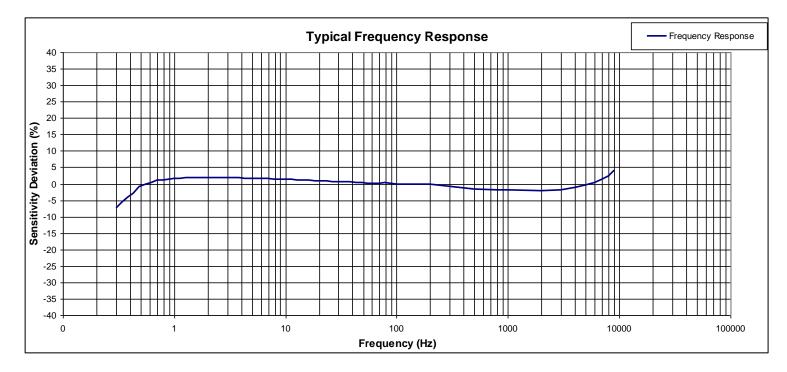
Parameters <b>DYNAMIC</b> Range (g) Sensitivity (mV/g) Frequency Response (Hz) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g) Residual Noise (g RMS)	±50 100 2.5-5000 1.0-6500 43000 ±1 <5 5000 0.0004	±100 50 1.5-5000 0.8-6500 43000 ±1 <5 5000 0.0005	+200 25 1.5-5000 0.8-6500 43000 +1 <5 5000 0.0008	±500 10 1.0-5000 0.5-6500 43000 ±1 <5 5000 0.0012	Notes ±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 (V) Discharge Time Constant (se Ground Isolation	ec) 0.8 to 1.2	ated, Internally Shie	əlded		Room Temperature -55 to +125°C
ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C) Humidity	See Typical Temperature Response Curve -55 to +125 -55 to +125 Hermetically Sealed				
PHYSICAL Sensing Element Case Material Electrical Connector Weight (grams) Mounting Mounting Torque	Ceramic (shear mode) Titanium 4-Pin Receptacle 10 #10-32 Mounting Screw 18 Ib-in (2 N-m)				
Calibration supplied:	CS-FREQ-0100	NIST Traceable Amplitude Calibration from 20Hz to ±2dB Frequency Response Limit			
Optional accessories:	317-XXX 161A	Cable Assembly, 4-pin ¼-28 to Pigtail Leads (XXX designates length in inches, 10ft standard) 4-Channel PE & IEPE Signal Conditioner			

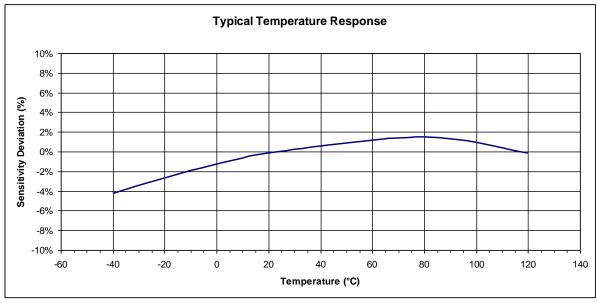
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# **Model 7134A Accelerometer**

### performance specifications





### ordering info

PART NUMBERING Model Number+Range

7134A-GGGG

I\_\_\_\_\_ Range (0050 is 50g)

Example: 7134A-0050 Model 7134A, 50g