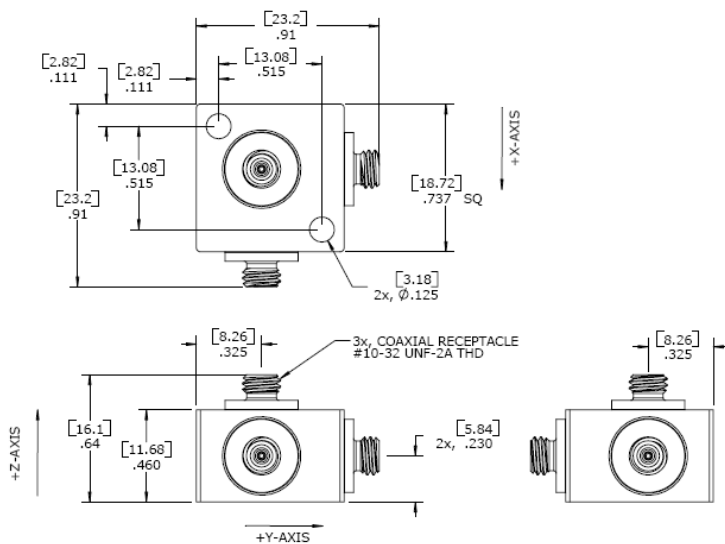


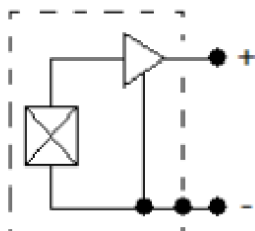


## DIMENSIONS



SCHEMATIC (EACH CHANNEL)

## ACCELEROMETER



# MODEL 7130A ACCELEROMETER

## SPECIFICATIONS

- ◆ Triaxial IEPE Accelerometer
- ◆ Wide Bandwidth to 9kHz
- ◆ Hermetically Sealed
- ◆ Annular Shear Mode

The Model 7130A is a triaxial IEPE accelerometer available in  $\pm 50g$  to  $\pm 500g$  dynamic ranges. The accelerometer features three independent welded stainless steel assemblies incorporated into a hard anodized aluminum housing. The model 7130A incorporates a stable piezo-ceramic crystal in annular shear mode, installed with a compression ring that eliminates the usage of epoxies that can affect long term stability. The accelerometer has an operating range of  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$  and a flat frequency response to 9kHz.

## FEATURES

- ◆  $\pm 50g$  to  $\pm 500g$  Dynamic Range
- ◆ Wide bandwidth up to 9kHz
- ◆ Isolated Aluminum Housing
- ◆ Independent Channels
- ◆ Annular Shear Mode Crystals
- ◆ Stable Temperature Response

## APPLICATIONS

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

**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.

**Parameters**

**DYNAMIC**

			<b>Notes</b>
Range (g)	±50	±500	
Sensitivity (mV/g)	100	10	±10%
Frequency Response (Hz)	1-7000	1-7000	±10%
Frequency Response (Hz)	0.5-9000	0.5-9000	±2dB
Natural Frequency (Hz)	32000	32000	
Non-Linearity (%FSO)	±1	±1	
Transverse Sensitivity (%)	<5	<5	
Shock Limit (g)	5000	5000	

**ELECTRICAL**

Compliance Voltage (Vdc)	18 to 30	18 to 30	
Excitation Current (mA)	2 to 10	2 to 10	
Bias Voltage (Vdc)	8 to 12	8 to 12	Room Temperature
Bias Voltage (Vdc)	6 to 14	6 to 14	-55 to +125°C
Output Impedance (Ω)	<100	<100	
Full Scale Output Voltage (V)	±5	±5	
Residual Noise (g RMS)	0.0004	0.0008	Broadband 1Hz to 10kHz
Discharge Time Constant (sec)	0.8 to 1.2		
Ground Isolation	Isolated from Mounting Surface by Aluminum Case		

**ENVIRONMENTAL**

Temperature Response (%)	See Typical Temperature Response Curve
Operating Temperature (°C)	-55 to +125
Storage Temperature (°C)	-55 to +125
Humidity	Hermetically Sealed

**PHYSICAL**

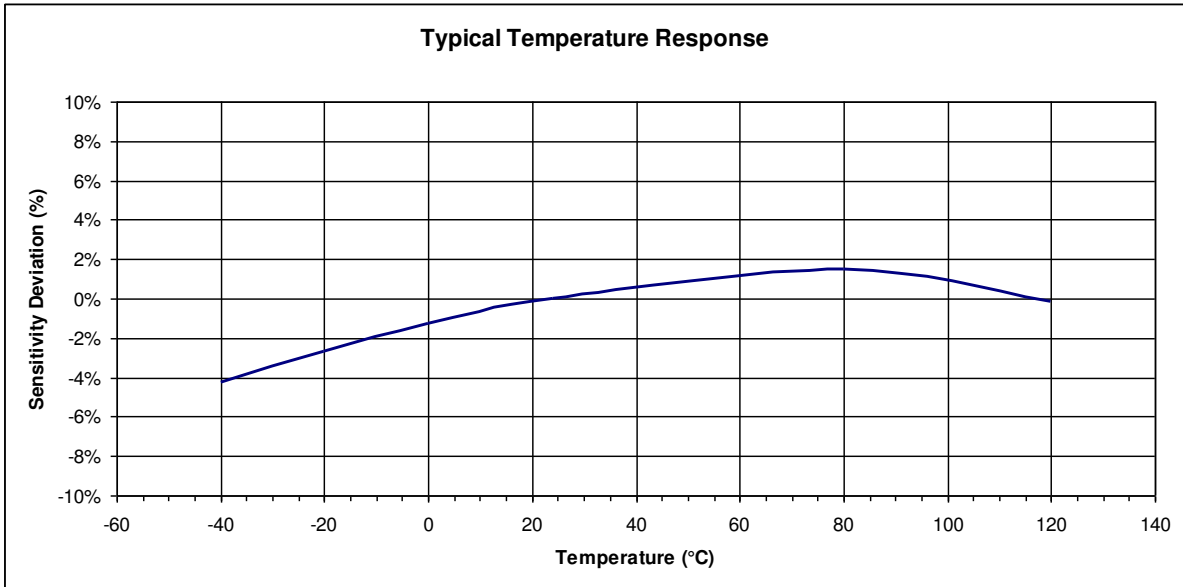
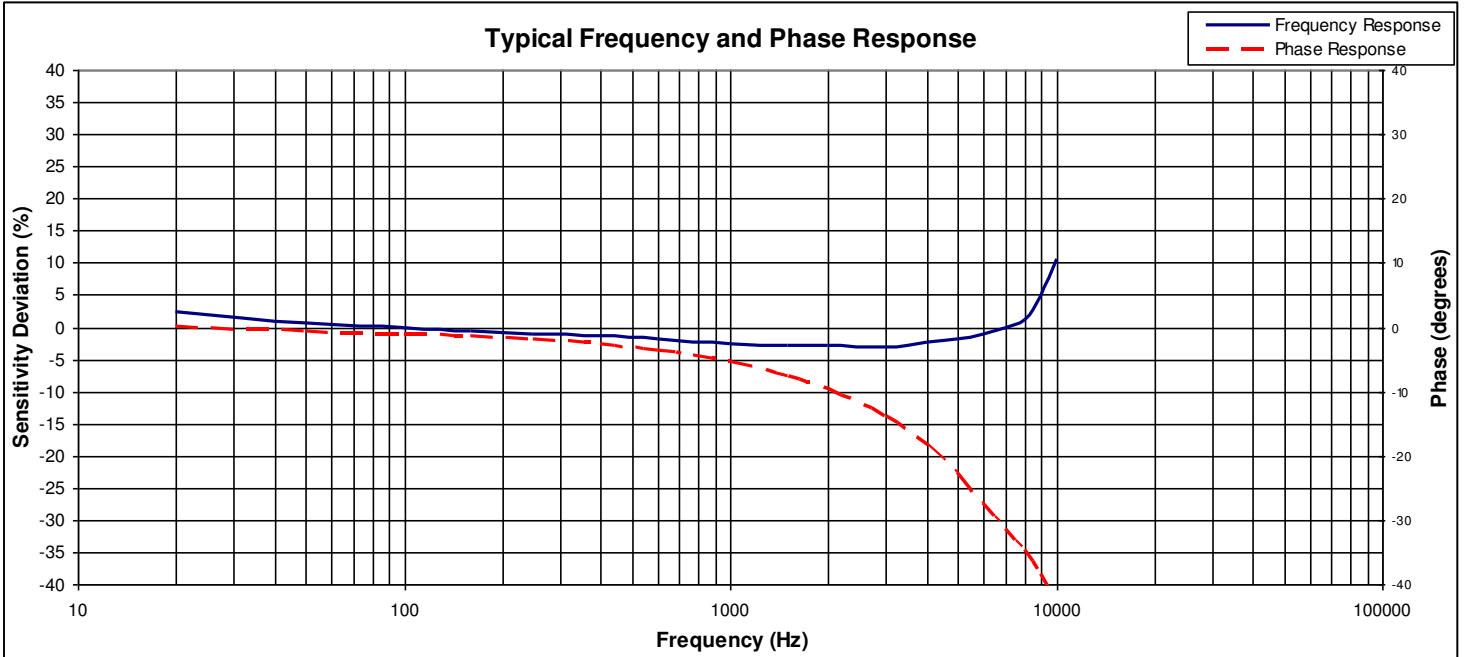
Sensing Element	Ceramic (shear mode)
Case Material	Hard Anodized Aluminum
Electrical Connector	10-32 Coaxial Receptacle
Weight (grams)	15
Mounting	2x #4 or M3 Screws
Mounting Torque	6 lb-in (0.7 N-m)

**Supplied accessories:** 2x #4-40 (5/8 length) Socket Head Cap Screw and Washer

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

**Optional accessories:** 310-XXX Cable Assembly, 10-32 to 10-32 (XXX designates length in inches, 10ft standard)  
 314-XXX Cable Assembly, 10-32 to BNC (XXX designates length in inches, 10ft standard)  
 161A 4-Channel PE & IEPE Signal Conditioner

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ORDERING INFORMATION

PART NUMBERING Model Number+Range

7130A-GGGG  
|  
| \_\_\_\_\_ Range (0050 is 50g)

Example: 7130A-0050  
Model 7130A, 50g



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