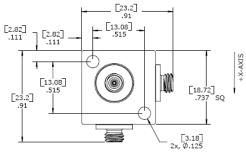
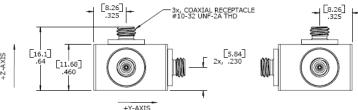






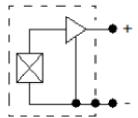
DIMENSIONS





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 ±50g to ±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°C to +125°C and a flat frequency response to 9kHz.

FEATURES

- ◆ ±50g to ±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			Notes		
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			
(0)					
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 1	0kHz	
Discharge Time Constant (sec)	0.8 to 1.2				
Ground Isolation	Isolated from				

ENVIRONMENTAL

Temperature Response (%) See Typical Temperature Response Curve

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

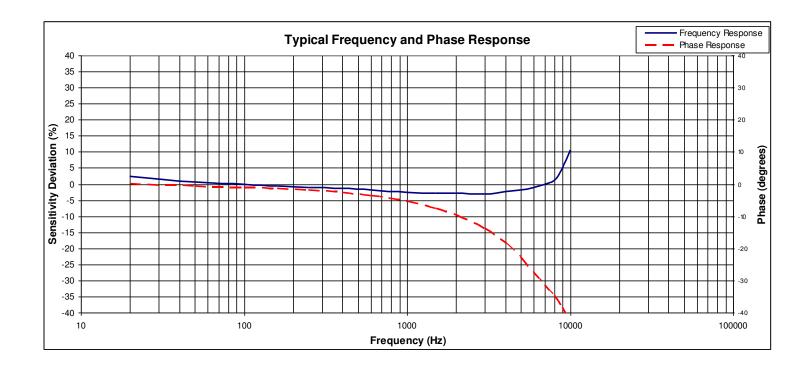
Calibration supplied: CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±2dB Frequency Response Limit

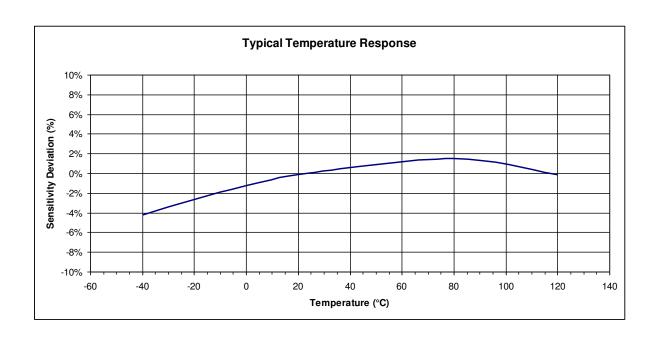
Optional accessories: 310-XXX Cable Assembly, 10-32 to 10-32 (XXX designates length in inches, 10ft standard)

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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MODEL 7130A ACCELEROMETER

ORDERING INFORMATION

PART NUMBERING Model Number+Range

7130A-GGGG Range (0050 is 50g)

Example: 7130A-0050

Model 7130A, 50g

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