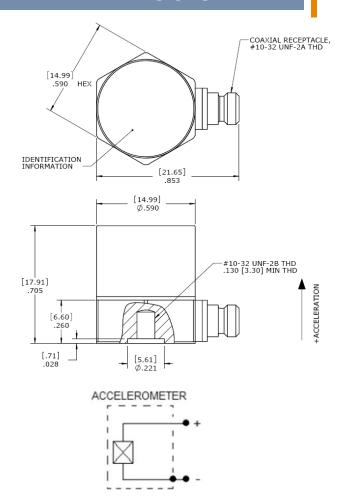








DIMENSIONS



MODEL 7514A ACCELEROMETER

SPECIFICATIONS

- +260°C Charge Output Accelerometer
- 50pC/g output, 14kHz Bandwidth
- Hermetically Sealed
- Stud Mount, Side Connector

The Model 7514A is a stud mounted piezoelectric charge mode accelerometer with an operating temperature range to +260°C. The accelerometer is designed for high frequency vibration and shock measurements and offers a wide bandwidth to >14kHz with a nominal charge output of 50pC/g. The model 7514A features a hermetically sealed stainless steel housing and a #10-32 stud mount configuration.

FEATURES

- 13pC/g to 50pC/g Sensitivity
- Wide bandwidth up to >14kHz
- Stud Mounted
- Hermetically Sealed
- Annular Shear Mode
- -73°C to +260°C Operating Range
- Stable Temperature Response

APPLICATIONS

- Vibration & Shock Monitoring
- High Temp Applications
- Laboratory Testing
- High Frequency Applications
- Gearbox Vibration Monitoring

PERFORMANCE SPECIFICATIONS

All values are typical at +24°C, 80Hz unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters					
DYNAMIC					Notes
Dash Number	-50	-30	-20	-13	
Sensitivity (pC/g)	50	30	20	13	Typical
Sensitivity (pC/g)	40	24	14.5	9.0	Minimum
Frequency Response (Hz) 2	0.5-6000	0.5-7000	0.5-9000	0.5-11000	±10%
Frequency Response (Hz) ²	0.1-9000	0.1-10000	0.1-12000	0.1-14000	±2dB
Natural Frequency (Hz)	26000	28000	30000	33000	
Non-Linearity (%FSO)	±1/1000g	±1/1000g	±1/1000g	±1/1000g	
Transverse Sensitivity (%)	<5	<5	<5	<5	
Dynamic Range (g) 1	±500	±800	±1250	±2000	
Shock Limit (g)	10000	10000	10000	10000	
Weight (grams)	25	22	20	19	
FI FCTRICAL					

Capacitance (pF) 1050 Nominal Insulation Resistance (MΩ) >100 @100Vdc Grounding Case Grounded

ENVIRONMENTAL

Temperature Response (%) See Typical Temperature Response Curve

Operating Temperature (°C) -73 to +260 Storage Temperature (°C) -73 to +260

Hermetically Sealed, IP67 Humidity

PHYSICAL

Sensing Element Ceramic (shear mode) Case Material Stainless Steel

Electrical Connector 10-32 Coaxial Receptacle

#10-32 to #10-32 Mounting Stud (included) Mounting

Mounting Torque 18 lb-in (2.0 N-m)

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

AC-D02298 10-32 to 10-32 mounting stud Supplied accessories:

Optional accessories: 320-XXX Cable Assembly, 10-32 to 10-32 (XXX designates length in inches, 10ft standard)

Cable Assembly, 10-32 to BNC (XXX designates length in inches, 10ft standard) 324-XXX

130 In-Line Charge Converter

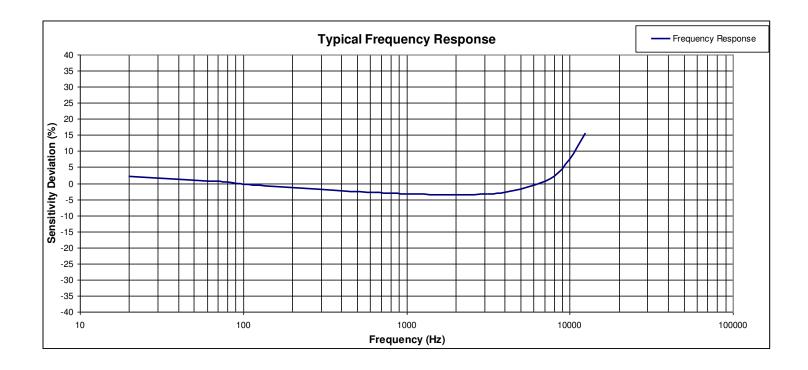
4-Channel PE & IEPE Signal Conditioner 161A

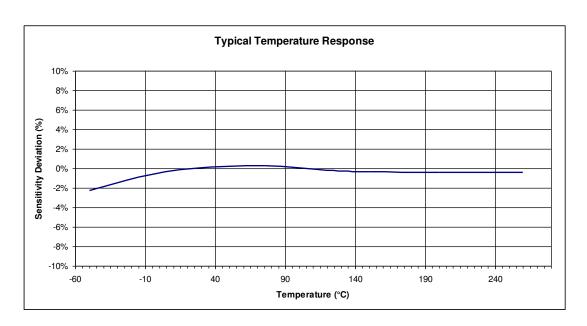
AC-A03470 Adhesive Mounting Adaptor AC-A03471 Magnetic Mounting Adaptor

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¹ Operating range over which the accelerometer meets the linearity specifications

² Low-end response of the accelerometer is a function of its associated electronics.





ORDERING INFORMATION

PART NUMBERING Model Number+Sensitivity

7514A-GG

____ (50 is 50pC/g)

Example: 7514A-50

Model 7514A, 50pC/g

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