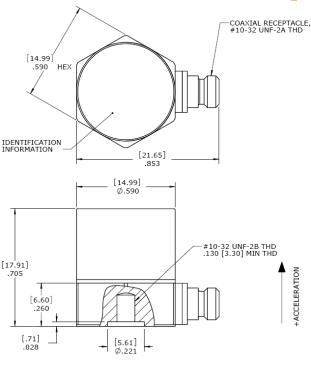
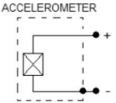




DIMENSIONS





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

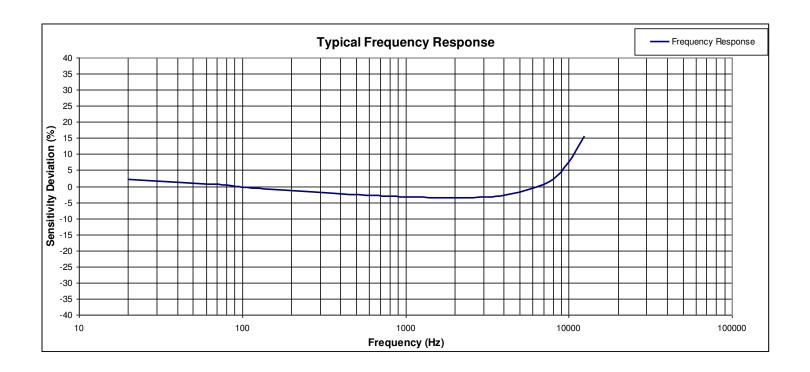
PERFORMANCE SPECIFICATIONS

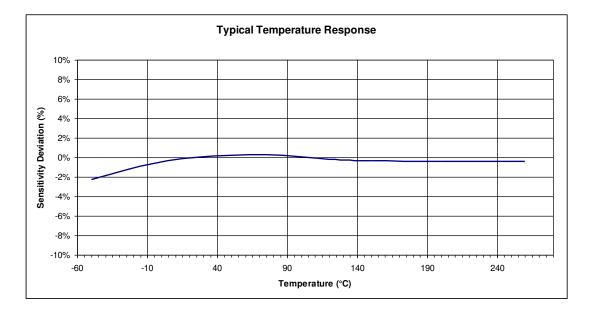
All values are typical at +24°C, 80Hz unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters DYNAMIC Dash Number Sensitivity (pC/g) Sensitivity (pC/g) Frequency Response (Hz) ² Frequency Response (Hz) ² Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Dynamic Range (g) ¹ Shock Limit (g) Weight (grams)	-50 50 40 0.5-6000 0.1-9000 26000 ±1/1000g <5 ±500 10000 25	-30 30 24 0.5-7000 0.1-10000 28000 ±1/1000g <5 ±800 10000 22	-20 20 14.5 0.5-9000 0.1-12000 30000 ±1/1000g <5 ±1250 10000 20	-13 13 9.0 0.5-11000 0.1-14000 33000 ±1/1000g <5 ±2000 10000 19	Notes Typical Minimum ±10% ±2dB	
ELECTRICAL Capacitance (pF) Insulation Resistance (MΩ) Grounding	1050 >100 Case Groun	ded			Nominal @100Vdc	
ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C) Humidity	See Typical Temperature Response Curve -73 to +260 -73 to +260 Hermetically Sealed, IP67					
PHYSICAL Sensing Element Case Material Electrical Connector Mounting Mounting Torque	Ceramic (shear mode) Stainless Steel 10-32 Coaxial Receptacle #10-32 to #10-32 Mounting Stud (included) 18 Ib-in (2.0 N-m)					
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.						
Calibration supplied:	CS-FREQ-0100	REQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±2dB Frequency Response Limit				
Supplied accessories:	AC-D02298	10-32 to 10-32 mounting stud				
•	320-XXX 324-XXX 130	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) In-Line Charge Converter				

- 161A 4-Channel PE & IEPE Signal Conditioner
 - AC-A03470 Adhesive Mounting Adaptor AC-A03471 Magnetic Mounting Adaptor

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ORDERING INFORMATION

PART NUMBERING Model Number+Sensitivity

7514A-GG

I_____ (50 is 50pC/g)

Example: 7514A-50 Model 7514A, 50pC/g