

+260°C Charge Output Accelerometer 20pC/g output, 15kHz Bandwidth Hermetically Sealed Through Hole Mount

The Model 7500A is a piezoelectric charge mode accelerometer designed for high frequency vibration and shock measurements. The accelerometer incorporates an annular shear mode crystal that provides stable thermal response up to +260°C. The model 7500A is hermetically sealed and features the popular through hole mount installation for use with standard mounting screws.



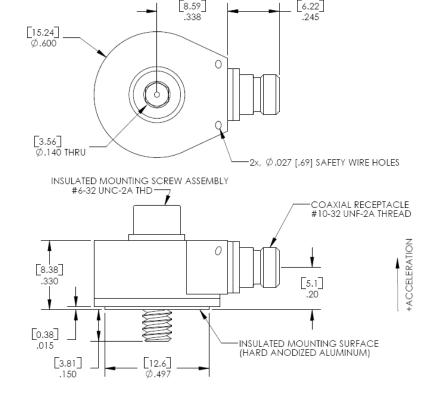
dimensions

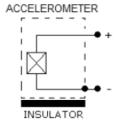
FEATURES

- 7pC/g to 20pC/g Sensitivity
- Wide bandwidth up to >15kHz
- -73°C to +260°C Operating Range
- Hermetically Sealed
- Annular Shear Mode
- Isolated Mounting Surface
- Stable Temperature Response

APPLICATIONS

- Vibration & Shock Monitoring
- High Temperature Applications
- Flight Testing
- Gearbox Vibration Monitoring
- High Frequency Applications





Model 7500A Accelerometer



performance specifications

All values are typical at +24°C, 100Hz 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.

	Deremetere						
	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)	-20 20 14.5 1-6000 0.1-10000 30000 ±1/1000g <5 ±1250 10000	-13 13 9.0 1-10000 0.1-12000 33000 ±1/1000g <5 ±2000 10000	-7 7.0 5.0 1-12000 0.1-15000 43000 ±1/1000g <5 ±3500 10000		Notes Typical Minimum ±10% ±2dB	
	ELECTRICAL Capacitance (pF) Insulation Resistance (MΩ) Ground Isolation	1050 >100 Isolated fro	1050 >100 om Mounting Surfac	1050 >100		Nominal @50Vdc	
	ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C) Humidity	-73 to +260 -73 to +260	See Typical Temperature Response Curve -73 to +260 -73 to +260 Hermetically Sealed				
	PHYSICAL Sensing Element Case Material Electrical Connector Weight (grams) Mounting Mounting Torque	sing ElementCeramic (shear mode)e MaterialStainless Steeltrical Connector10-32 Coaxial Receptacleght (grams)10ntingThrough Hole (#6 insulated cap screw)					
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	NIST Traceable Amplitude Calibration from 20Hz to $\pm 2dB$ Frequency Response Limit				
	Supplied accessories:	AC-A03381	1x #6-32 Insulated Mounting Screw Assembly (1/2 inch length)				
	Optional accessories:	320-XXX	Low Noise Cable Assembly, 10-32 to 10-32 (XXX designates length in inches, 10ft standa				

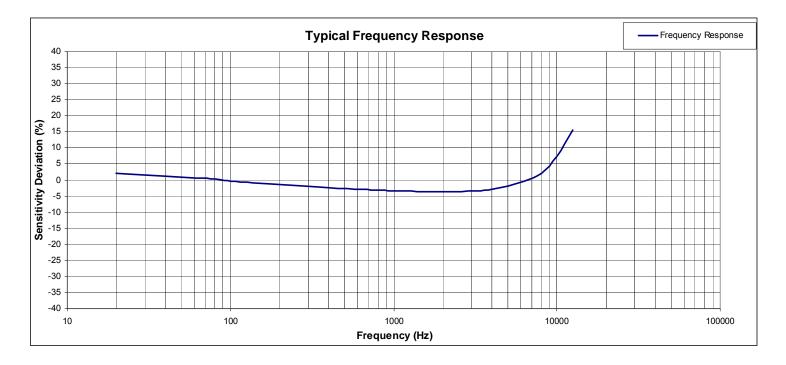
tional accessories: 320-XXX Low Noise Cable Assembly, 10-32 to 10-32 (XXX designates length in inches, 10ft standard) 324-XXX Low Noise Cable Assembly, 10-32 to BNC (XXX designates length in inches, 10ft standard) 130 In-Line Charge Converter 161A 4-Channel PE & IEPE Signal Conditioner AC-A03389 AC-A03388 Adhesive Mounting Adaptor AC-A03472 Magnetic Mounting Adaptor

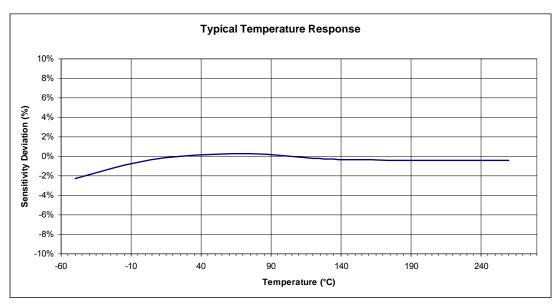
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Model 7500A Accelerometer



performance specifications





ordering info

PART NUMBERING Model Number+Sensitivity

7500A-GG

(20 is 20pC/g)

Example: 7500A-20 Model 7500A, 20pC/g