

Model 7502A 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.

Parameters

DYNAMIC

Sensitivity (pC/g)	1.6
Sensitivity (pC/g)	1.0
Frequency Response (Hz) ²	1-10000
Frequency Response (Hz) ²	0.1-14000
Natural Frequency (Hz)	48000
Non-Linearity (%FSO)	±1/1000g
Transverse Sensitivity (%)	<5
Dynamic Range (g) ¹	±5000
Shock Limit (g)	10000

Notes
Typical
Minimum
±10%
±2dB

ELECTRICAL

Capacitance (pF)	160
Insulation Resistance (MΩ)	>100
Ground Isolation	Isolated from Mounting Surface

Nominal
@100Vdc

ENVIRONMENTAL

Temperature Response (%)	See Typical Temperature Response Curve
Operating Temperature (°C)	-73 to +200
Storage Temperature (°C)	-73 to +200
Humidity	Hermetically Sealed

PHYSICAL

Sensing Element	Ceramic (shear mode)
Case Material	Titanium
Electrical Connector	M3 Coaxial Receptacle
Weight (grams)	1.0
Mounting	Adhesive

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.

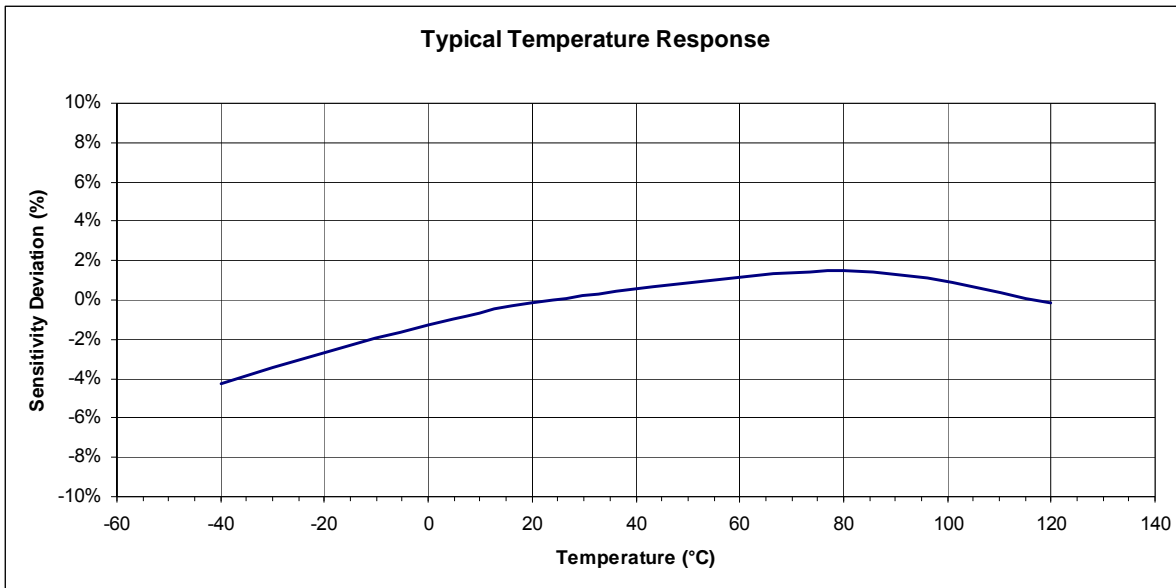
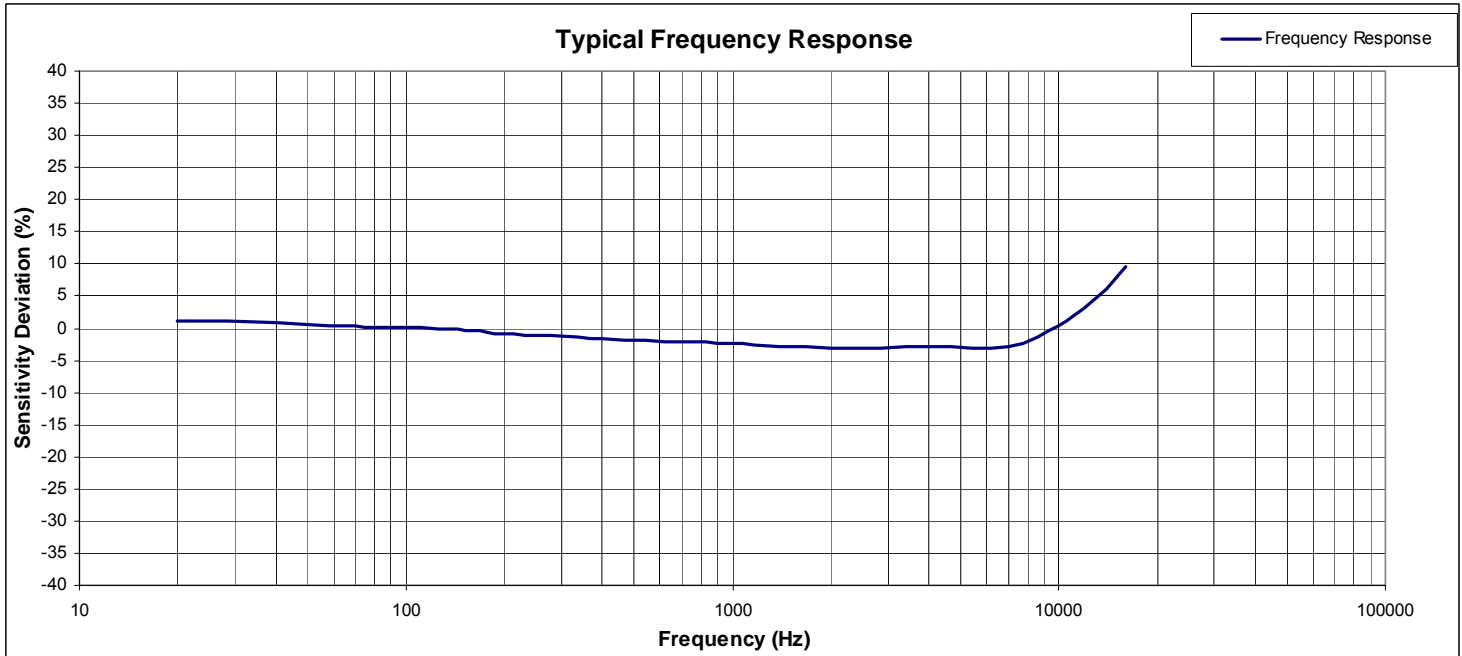
Calibration supplied: CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±2dB Frequency Response Limit

Optional accessories: 321-XXX Low Noise Cable Assembly, M3 to 10-32 (XXX designates length in inches, 10ft standard)
130 In-Line Charge Converter
161 Three Channel PE & IEPE Signal Conditioner

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ordering info

PART NUMBERING Model Number

7502A