Model 7514A Accelerometer



+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.

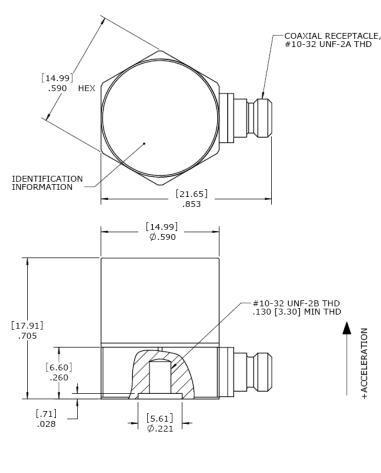
FEATURES

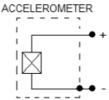
- 13pC/g to 50pC/g Sensitivity
- Wide bandwidth up to >14kHz
- Stud Mounted
- Hermetically Sealed
- Annular Shear Mode
- -73°C to +260°C Operating Range
- Stable Temperature Response

APPLICATIONS

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

dimensions









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. Standard product parameters are described in PSC-1003 for Plug & Play AC Accelerometers.

				Notes
-50	-30	-20	-13	
50	30	20	13	Typical
40	24	14.5	9.0	Minimum
0.5-6000	0.5-7000	0.5-9000	0.5-11000	±10%
0.1-9000	0.1-10000	0.1-12000	0.1-14000	±2dB
26000	28000	30000	33000	
±1/1000g	±1/1000g	±1/1000g	±1/1000g	
<5	<5	<5	<5	
±500	±800	±1250	±2000	
10000	10000	10000	10000	
25	22	20	19	
	50 40 0.5-6000 0.1-9000 26000 ±1/1000g <5 ±500 10000	50 30 40 24 0.5-6000 0.5-7000 0.1-9000 0.1-10000 26000 28000 ±1/1000g ±1/1000g <5 <5 ±500 ±800 10000 10000	50 30 20 40 24 14.5 0.5-6000 0.5-7000 0.5-9000 0.1-9000 0.1-10000 0.1-12000 26000 28000 30000 ±1/1000g ±1/1000g ±1/1000g <5	50 30 20 13 40 24 14.5 9.0 0.5-6000 0.5-7000 0.5-9000 0.5-11000 0.1-9000 0.1-10000 0.1-12000 0.1-14000 26000 28000 30000 33000 ±1/1000g ±1/1000g ±1/1000g <5

ELECTRICAL

Capacitance (pF) 1050 Nominal Insulation Resistance (M Ω) >100 0e100Vdc

Grounding Case Grounded

ENVIRONMENTAL

Temperature Response (%) See Typical Temperature Response Curve

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

Humidity Hermetically Sealed, IP67

PHYSICAL

Sensing Element Ceramic (shear mode)
Case Material Stainless Steel

Electrical Connector 10-32 Coaxial Receptacle

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

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

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

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

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

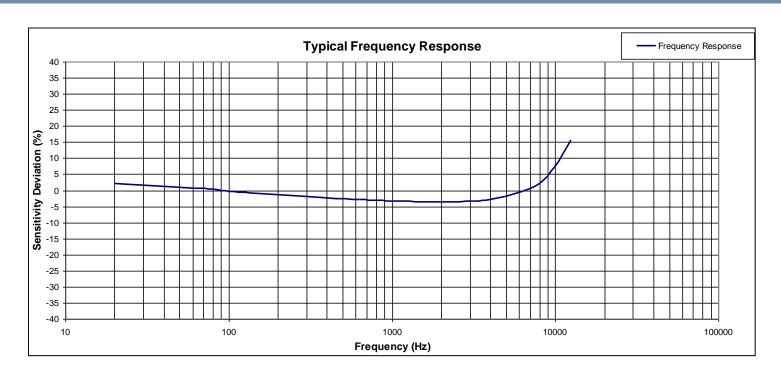
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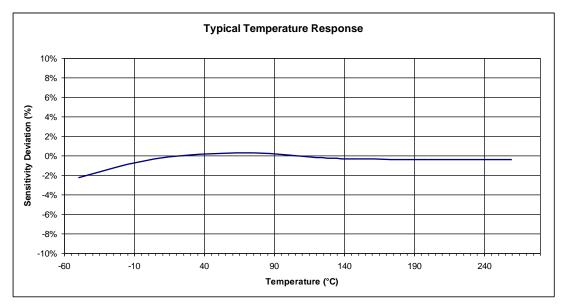
Operating range over which the accelerometer meets the linearity specifications

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



performance specifications





ordering info

PART NUMBERING Model Number+Sensitivity

7514A-GG

___ (50 is 50pC/g)

Example: 7514A-50

Model 7514A, 50pC/g

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