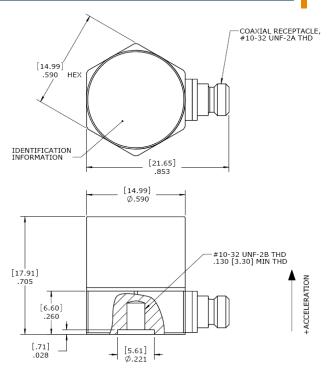
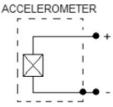






# DIMENSIONS





# **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

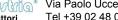
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- **High Frequency Applications** •
- Gearbox Vibration Monitoring •

SENSOR SOLUTIONS /// Model 7514A Rev D

**DSPM** Industria\* sensori & trasduttori

Via Paolo Uccello 4 - 20148 Milano Tel +39 02 48 009 757 Fax +39 02 48 002 070



#### 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 <b>DYNAMIC</b> Dash Number Sensitivity (pC/g) Sensitivity (pC/g) Frequency Response (Hz) <sup>2</sup> Frequency Response (Hz) <sup>2</sup> Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Dynamic Range (g) <sup>1</sup> 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	
<b>ELECTRICAL</b> Capacitance (pF) Insulation Resistance (MΩ) Grounding	1050 >100 Case Ground	ded			Nominal @100Vdc	
<b>ENVIRONMENTAL</b> Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C) Humidity	-73 to +260 -73 to +260					
PHYSICAL Sensing Element Case Material Electrical Connector Mounting Mounting Torque	Stainless Ste 10-32 Coaxia #10-32 to #1	Ceramic (shear mode) Stainless Steel 10-32 Coaxial Receptacle #10-32 to #10-32 Mounting Stud (included) 18 Ib-in (2.0 N-m)				
<sup>1</sup> Operating range over which the accelerometer meets the linearity specifications <sup>2</sup> Low-end response of the accelerometer is a function of its associated electronics.						
Calibration supplied: C	S-FREQ-0100	REQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±2dB Frequency Response Limit				
Supplied accessories: A	C-D02298	10-32 to 10-32 mounting stud				
. 3	20-XXX 24-XXX 30	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

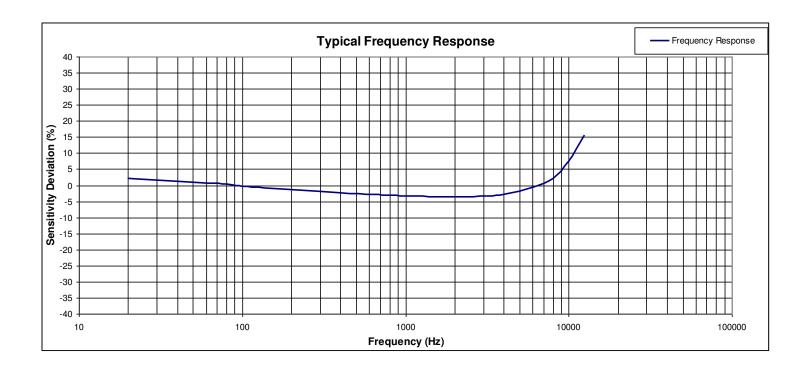
AC-A03471 Magnetic Mounting Adaptor

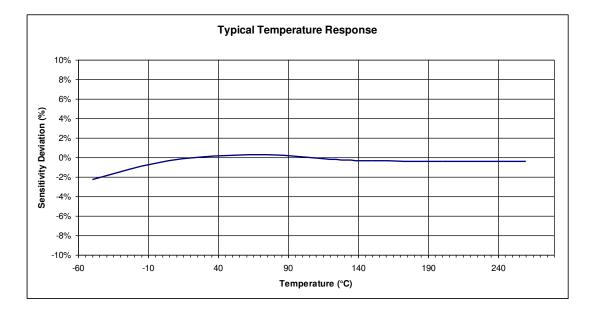
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#### **ORDERING INFORMATION**

PART NUMBERING Model Number+Sensitivity

7514A-GG

I\_\_\_\_\_ (50 is 50pC/g)

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

#### TE.com/sensorsolutions

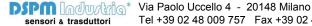
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