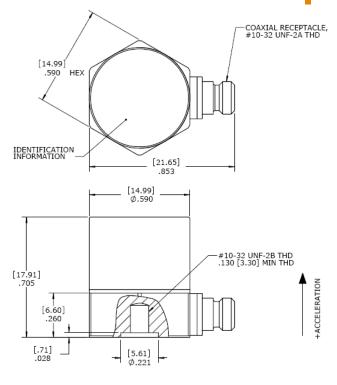
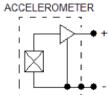


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DIMENSIONS





MODEL 7114A ACCELEROMETER

SPECIFICATIONS

- **IEPE Accelerometer** +
- High Sensitivity, 1000mV/g
- 10-32 Side Connector
- Stud Mount. Hermetic

The Model 7114A is a high performance IEPE accelerometer available in ±5g to ±50g dynamic ranges. The stud mounted accelerometer features a welded hermetic construction with a side mount connector. The model 7114A incorporates stable piezo-ceramic crystals in annular shear mode which provide a wide bandwidth. The standard operating temperature range extends from -55°C to +125°C. For a miniature stud mount version please review model 7104A, available in ±50g to ±500g dynamic ranges.

FEATURES

- ±5g to ±50g Dynamic Range ٠
- High Sensitivity, 1000mV/g
- Welded Construction +
- + Hermetically Sealed
- Annular Shear Mode •
- Stable Temperature Response •

APPLICATIONS

- Vibration & Shock Monitoring
- Laboratory Testing
- Modal Applications
- **High Frequency Applications** •
- General Purpose Usage

SENSOR SOLUTIONS /// Model 7114A Rev D



Germany/Austria/Switzerland Benelux info@althen.de

France

07/2017

Sweden

PERFORMANCE SPECIFICATIONS

All values are typical at +24°C, 80Hz and 4mA excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters DYNAMIC Range (g) Sensitivity (mV/g) Frequency Response (Hz) Frequency Response (Hz) Natural Frequency (Hz) Phase Response (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g) Residual Noise (g RMS)	±5 1000 1-4000 0.5-5000 26000 1-2000 ±1 <5 5000 0.0001	±10 500 1-5000 0.5-6000 28000 1-2000 ±1 <5 5000 0.0002	±50 100 1-8000 0.5-9000 30000 1-2500 ±1 <5 5000 0.0004		Notes ±5% ±1dB <5° Broadband 1Hz to 10kHz
ELECTRICAL Compliance Voltage (Vdc) Excitation Current $(mA)^1$ Bias Voltage (Vdc) Bias Voltage (Vdc) Output Impedance (Ω) Full Scale Output Voltage (V Discharge Time Constant (s Grounding		led			See Note 1 Room Temperature -55 to +125°C
ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C) Humidity) -55 to +125 -55 to +125	Sealed, IP67			
PHYSICAL Sensing Element Case Material Weight (grams) Mounting Mounting Torque	Ceramic (shear mode) Stainless Steel 19 #10-32 to #10-32 Mounting Stud (included) 18 lb-in (2.0 N-m)				
Calibration supplied:	CS-FREQ-0100	NIST Traceable Amplitude Calibration from 20Hz to ± 1 dB Frequency Response Limit			
Supplied accessories:	AC-D02298	10-32 to 10-32 mounting stud			
Optional accessories: 310-XXX 314-XXX AC-A03470 AC-A03471 AC-A03471		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) Adhesive Mounting Adaptor Magnetic Mounting Adaptor 4-Channel PE & IEPE Signal Conditioner			

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ORDERING INFORMATION

PART NUMBERING Model Number+Range

7114A-GGGG

_ Range (0050 is 50g)

Example: 7114A-0050 Model 7114A, 50g

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