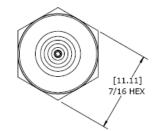
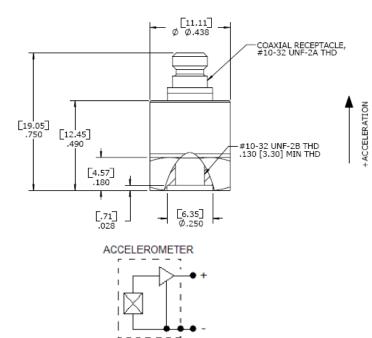






DIMENSIONS





MODEL 7105A ACCELEROMETER

SPECIFICATIONS

- IEPE Accelerometer
- Wide Bandwidth to >10kHz
- 10-32 Top Connector
- Stud Mount, Hermetic

The Model 7105A is a high performance IEPE accelerometer available in \pm 50g to \pm 1000g dynamic ranges. The stud mounted accelerometer features a welded hermetic construction with a top mount connector. The model 7105A incorporates stable piezo-ceramic crystals in annular shear mode which provide a flat frequency response up to >10kHz. The standard operating temperature range extends from -55°C to +125°C.

FEATURES

- ±50g to ±1000g Dynamic Range
- Wide bandwidth up to >10kHz
- Welded Construction
- Hermetically Sealed
- Annular Shear Mode
- Stable Temperature Response
- TEDS Option

APPLICATIONS

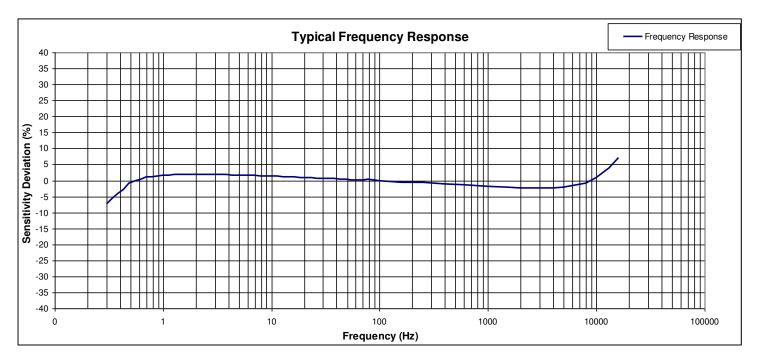
- Vibration & Shock Monitoring
- Laboratory Testing
- Modal Applications
- High Frequency Applications
- General Purpose Usage

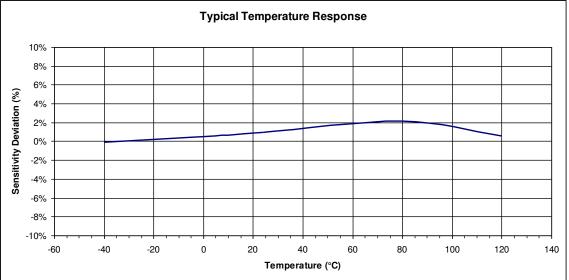
PERFORMANCE SPECIFICATIONS

All values are typical at $+24^{\circ}$ 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) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g)	±50 100 0.5-6000 0.3-10000 >50000 ±1 <5 5000	±100 50 0.5-6000 0.3-10000 >50000 ±1 <5 5000	±500 10 0.5-8000 0.3-10000 >50000 ±1 <5 5000	±1000 5 0.5-8000 0.3-10000 >50000 ±1 <5 5000	Notes ±10% ±5% ±1dB
ELECTRICAL Compliance Voltage (Vdc) Excitation Current $(mA)^1$ Bias Voltage (Vdc) Bias Voltage (Vdc) Output Impedance (Ω) Full Scale Output Voltage (' Residual Noise (g RMS) Discharge Time Constant (s Grounding	0.0004	18 to 30 2 to 10 8 to 12 6 to 13 <100 ±5 0.0005	18 to 30 2 to 10 8 to 12 6 to 13 <100 ±5 0.0008	18 to 30 2 to 10 8 to 12 6 to 13 <100 ±5 0.0014	See Note 1 Room Temperature -55 to +125°C Broadband 1Hz to 10kHz
ENVIRONMENTALTemperature Response (%)See Typical TOperating Temperature (°C)-55 to +125Storage Temperature (°C)-55 to +125HumidityHermetically S		·	esponse Curve		
PHYSICAL Sensing Element Case Material Electrical Connector Weight (grams) Mounting Mounting Torque	Ceramic (shear mode) Stainless Steel 10-32 Coaxial Receptacle 7.3 #10-32 to #10-32 Mounting Stud (included) 18 Ib-in (2.0 N-m)				
Calibration supplied: CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±1dB 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-A03500 161A	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 Isolated Mounting Adaptor (#10-32 to M5x0.8 thread) 4-Channel PE & IEPE Signal Conditioner, Bench Top			

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ORDERING INFORMATION

PART NUMBERING Model Number+Range

7105AT-GGGG Т

Range (0050 is 50g)

TEDS compliant to IEEE 1451.4 when 'T' option is included

Example: 7105A-0050 Model 7105A, 50g



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