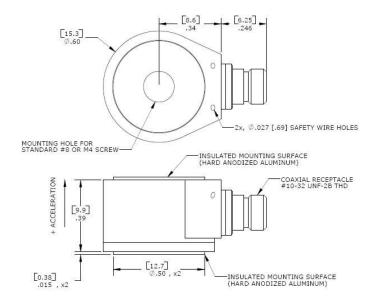
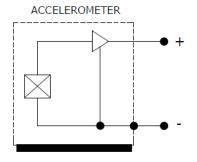






DIMENSIONS





MODEL 7100A ACCELEROMETER

SPECIFICATIONS

- ◆ +150°C IEPE Accelerometer
- Wide Bandwidth to 15kHz
- Hermetically Sealed
- Through Hole Mount

The Model 7100A is a high performance IEPE accelerometer with an operating temperature range of -55°C to +150°C. The accelerometer is available in ± 50 to ± 500 g ranges and provides a flat frequency response up to 15kHz. The model 7100A is hermetically sealed and features the popular through hole mount installation for use with standard mounting screws.

FEATURES

- ±50g to ±500g Dynamic Range
- Wide bandwidth up to 15kHz
- Through Hole Mount
- Hermetically Sealed
- Annular Shear Mode
- Isolated Mounting Surface
- Stable Temperature Response
- TEDS Option

APPLICATIONS

- Vibration & Shock Monitoring
- High Temp IEPE Applications
- Flight Testing
- Gearbox Vibration Monitoring
- High Frequency Applications
- HUMS

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) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g) Residual Noise (g RMS)	±50 100 1-5000 0.5-10000 33000 ±1 <5 5000	±100 50 1-5000 0.5-10000 33000 ±1 <5 5000 0.0015	±500 10 1-6000 0.5-15000 43000 ±1 <5 5000		Notes ±10% ±5% ±1dB
ELECTRICAL Compliance Voltage (Vdc) Excitation Current (mA) Bias Voltage (Vdc) Bias Voltage (Vdc) Output Impedance (Ω) Full Scale Output Voltage (V) Discharge Time Constant (sec) Warm-Up Time (sec) Grounding	18 to 30 2 to 20 8 to 12 6 to 14 <100 ±5 0.8 to 1.2 2 Isolated from	18 to 30 2 to 20 8 to 12 6 to 14 <100 ±5	ace		Room Temperature -55 to +150°C
ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C) Humidity	See Typical Temperature Response Curve -55 to +150 -55 to +150 Hermetically Sealed				See Note 1 See Note 1
PHYSICAL Sensing Element Case Material Electrical Connector Weight (grams) Mounting Mounting Torque	Ceramic (shear mode) Stainless Steel 10-32 Coaxial Receptacle 11 Through Hole (#8 or M4 cap screw) 16 lb-in (1.8 N-m)				

¹ Contact factory for +175→C temperature option.

Calibration supplied: CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±1dB Frequency Response Limit

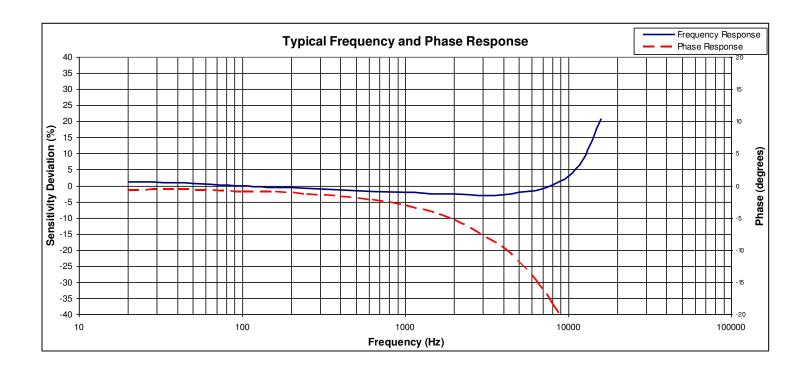
Supplied accessories: AC-D02787 1x #8-32 Mounting Screw (5/8 inch length)

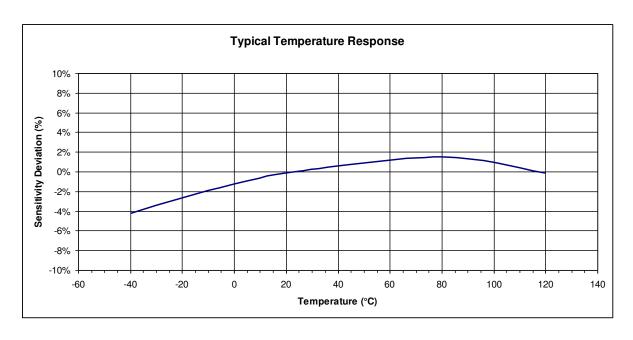
Optional accessories: 310-XXX Cable Assembly, 10-32 to 10-32 (XXX designates length in inches, 10ft standard) Cable Assembly, 10-32 to BNC (XXX designates length in inches, 10ft standard)

AC-A03389 Triaxial Mounting Block AC-A03388 Adhesive Mounting Adaptor

AC-A03472 Magnetic Mounting Adaptor 161A 4-Channel PE & IEPE Signal Conditioner, Bench Top

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ORDERING INFORMATION

PART NUMBERING Model Number+Range

7100AT-GGGG

Range (0050 is 50g)

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

Example: 7100A-0050

Model 7100A, 50g

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