### **SZJOINT** Joint Sensor Instruments (H.K.) Ltd. Joint Sensor Instruments (Shenzhen) Ltd.



## **Model 7100A Accelerometer**

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

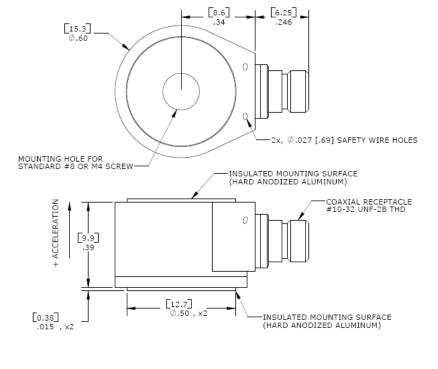


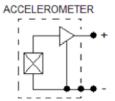
### dimensions

performance IEPE accelerometer with an operating temperature range of  $-55^{\circ}$ C to  $+150^{\circ}$ C. The accelerometer is available in  $\pm 50$  to  $\pm 500$ 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.

The Model 7100A is a high





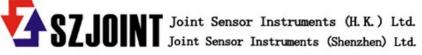
#### **FEATURES**

- ±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

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# **Model 7100A Accelerometer**

### performance specifications

All values are typical at +24°C, 100Hz and 4mA excitation 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.

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 1-5000 0.5-10000 33000 ±1 <5 5000	±500 10 1-7000 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 Residual Noise (g RMS) Discharge Time Constant (so Warm-Up Time (sec) Grounding	0.0001 ec) 0.8 to 1.2 2	18 to 30 2 to 20 8 to 12 6 to 14 <100 ±5 0.00025	Room Temperature -55 to +150°C Broadband 1Hz to 10kHz
<b>ENVIRONMENTAL</b> Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C) Humidity	-55 to +15 -55 to +15		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) emperature option.		
Calibration supplied:	CS-FREQ-0100	NIST Traceable Amplitude Calibration from 20Hz to $\pm 1$ dB Frequency Response Limit	
Supplied accessories:	AC-D02787	1x #8-32 Mounting Screw (5/8 inch length)	
Optional accessories:	310-XXX 314-XXX AC-A03389 AC-A03388 AC-A03472	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) Triaxial Mounting Block Adhesive Mounting Adaptor Magnetic Mounting Adaptor	

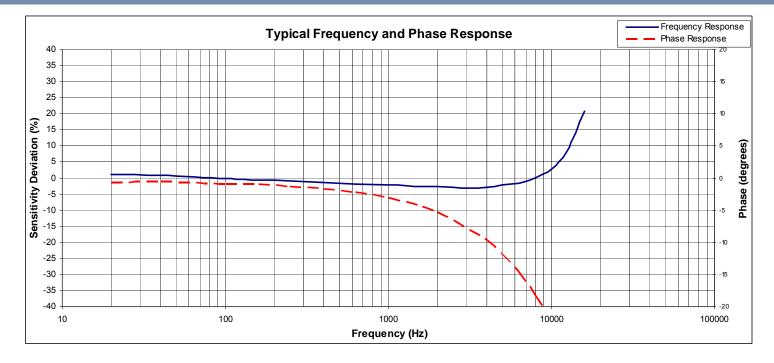
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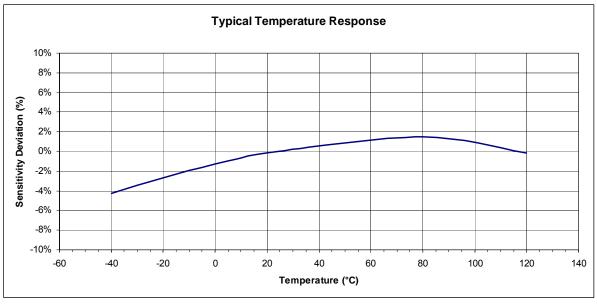
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### performance specifications





### ordering info

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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