High Temperature PE Accelerometer 20pC/g and 50pC/g Sensitivity +300°C Operating Range Exceptional Thermal Performance

#### The Model 7550A is a high

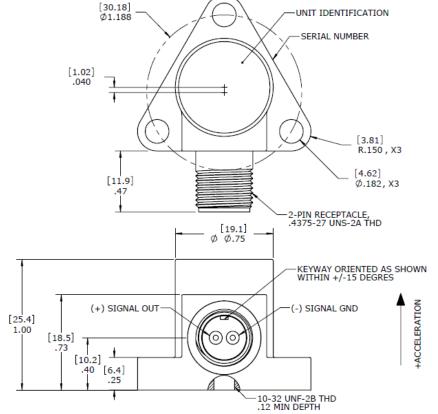
temperature piezoelectric charge mode accelerometer designed for long term health usage monitoring on turbine engines. The accelerometer incorporates an annular shear mode crystal that provides stable thermal response up to +300°C with output sensitivity options of 20pC/g & 50pC/g. The model 7550A is hermetically sealed and features the ARINC three hole mounting configuration.

#### **FEATURES**

- 20pC/g to 50pC/g Sensitivity
- Wide bandwidth up to 12kHz
- Case Isolated, Internally Shielded
- Annular Shear Mode
- ARINC Three Hole Mount
- Hermetically Sealed

### **APPLICATIONS**

- Land Gas Turbines
- Power Plants
- Aircraft Engines
- Industrial Applications
- High Temperature Testing





measureme

## dimensions

sales@sensorway.cn



## Model 7550A Accelerometer

### 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. Standard product parameters are described in PSC-1003 for Plug & Play AC Accelerometers.

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)	-50 50 40 0.5-6000 0.1-9000 26000 ±1/1000g <5 ±500 5000	-20 20 Typical 14.5 Minimum 0.5-9000 ±10% 0.1-12000 ±2dB 30000 ±1/1000g <5 ±1250 5000	
<b>ELECTRICAL</b> Capacitance (pF) Insulation Resistance (MΩ) Grounding	1050 >100 Case Isola	Nominal @100Vdc	
<b>ENVIRONMENTAL</b> Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C) Humidity	-54 to +30 -54 to +30	See Typical Temperature Response Curve -54 to +300 -54 to +300 Hermetically Sealed, IP67	
PHYSICAL Sensing Element Case Material Electrical Connector Weight (grams) Mounting Mounting Torque	Stainless S 2-Pin Rec 72 3x #8-32 S 18 Ib-in (2 n the accelerometer	3x #8-32 Socket Head Cap Screw 18 lb-in (2.0 N-m) ccelerometer meets the linearity specifications	
<sup>2</sup> Low-end response of the a Calibration supplied:	ccelerometer is a fur CS-FREQ-0100	nction of its associated electronics. NIST Traceable Amplitude Calibration from 20Hz to ±2dB Frequency Response Limit	
Supplied accessories:	AC-A05080	3x #8-32 (1/2" length) Socket Head Cap Screw	

 Optional accessories:
 326-XXX
 Mating Cable Assembly (XXX designates length in inches, 10ft standard), Rated to +260°C

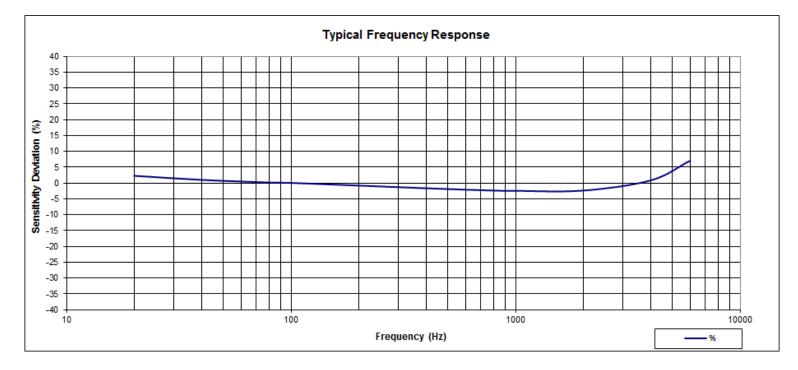
 161A
 4-Channel PE & IEPE Signal Conditioner

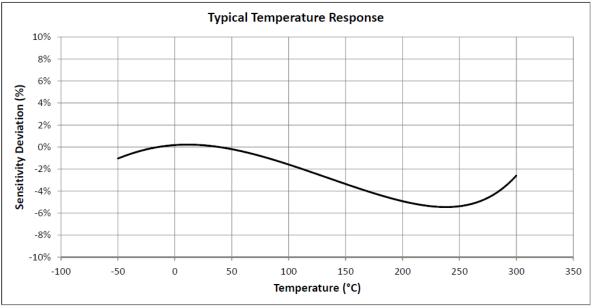
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# **Model 7550A Accelerometer**

## performance specifications





ordering info

PART NUMBERING

Model Number+Sensitivity

7550A-GG

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

Example: 7550A-50 Model 7550A, 50pC/g 北京赛斯维测控技术有限公司 北京市朝阳区望京西路48号 金隅国际D座302 电话: +86 010 8477 5646 传真: +86 010 5894 9029 邮箱: sales@sensorway.cn