Model 7202A Accelerometer





Internally Shielded IEPE Accelerometer
Integral Welded Strain Relief
+130°C Operating Temperature
Hermetically Sealed

The Model 7202A is a case isolated high temperature IEPE accelerometer with internal shielding. The accelerometer has a flat bandwidth up to 15kHz with a resonant frequency greater than 40kHz. The Model 7202A is available in ±10 to ±500g ranges and has an operating temperature range up to +130°C. The unit is hermetically sealed and features an integral strain relief with an ETFE jacketed cable.

FEATURES

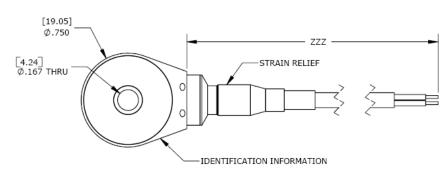
- ±10g to ±500g Dynamic Range
- Wide bandwidth up to 15kHz
- Case Isolated, Internally Shielded
- Hermetically Sealed
- Annular Shear Mode
- Through Hole Mount
- Stable Temperature Response
- Integral Strain Relief

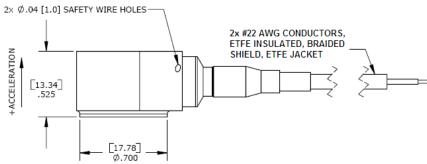
APPLICATIONS

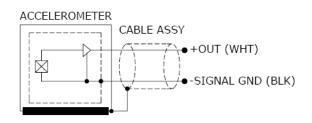
- Health Usage Monitoring Systems
- Machinery Monitoring
- Gearbox Vibration Monitoring
- High Frequency Applications
- Harsh Environments



Dimensions







Model 7202A Rev E 电话:+86 755 2641 9890 传真:+86 755 2641 9680 www.bill-well.com 深圳市亿为测控电子有限公司

Model 7202A 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. Measurement Specialties' family of <u>AC Response Plug & Play Accelerometers</u> is used for shock and vibration testing and structural analysis. These piezoelectric sensors come with or without built-in charge amplifier.

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)	±10 500 1-4000 0.6-8000 25000 ±1 <5 5000 0.0003	±50 100 1-5000 0.6-10000 33000 ±1 <5 5000 0.0001	±500 10 1-10000 0.6-20000 44000 ±1 <5 5000 0.00025	Notes ±5% ±1dB ²
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) Case Grounding	18 to 30 2 to 20 8 to 12 6 to 13 <100 ±5 0.8 to 1.2 2 Case Isolated,	Internally Shield	ded	Room Temperature -55 to +130°C
ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C) Humidity	See Typical Temperature Response Curve -55 to +130 -55 to +130 Hermetically Sealed			See Note 1 See Note 1
PHYSICAL Sensing Element Case Material Cable Weight (grams) Mounting Mounting Torque	Ceramic (shear mode) Stainless Steel #22 AWG ETFE Insulated Leads, Braided Shield, Crosslinked ETFE Jacket 23 Cable not included Through Hole (#8 or M4 cap screw) 20 lb-in (2.3 N-m)			

¹ Contact factory for +150°C temperature option.

Calibration supplied: CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±1dB Frequency Response Limit ²

Supplied accessories: 1x #8-32 Mounting Screw (3/4 inch length)
Optional accessories: 1c1A 4-Channel PE & IEPE Signal Conditioner

Ordering Info

PART NUMBERING	Model Number+Range
7202A-GGGG	
l I	Range (0500 is 500g)

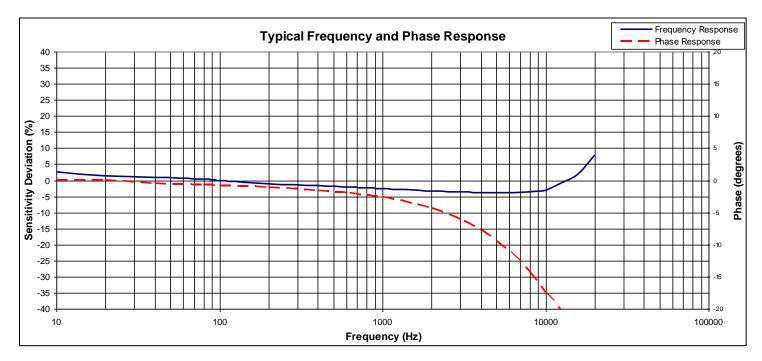
Example: 7202A-0500

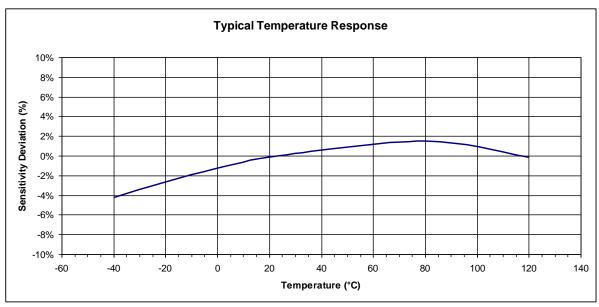
Model 7202A, 500g

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Model 7202A Accelerometer

Performance Specifications





联系方式



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