# **Model EGPE-1A Accelerometer**



The Model EGPE-1A is a high performance IEPE accelerometer with an operating temperature range of -55°C to +150°C. The accelerometer is available in ±50 to ±500g ranges and provides a flat frequency response up to 15kHz. The model EGPE-1A is hermetically sealed and features the popular through hole mount installation for use with standard mounting screws.



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

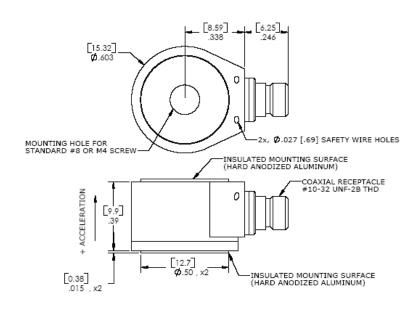
#### **APPLICATIONS**

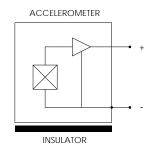
- Vibration & Shock Monitoring
- High Temp IEPE Applications
- Flight Testing
- Gearbox Vibration Monitoring
- High Frequency Applications
- HUMS





### dimensions





Model EGPE-1A Rev 2 www.meas-spec.com 06/11/2009 SUNSTAR自动化 http://www.sensor-ic.com/ TEL: 0755-83376489 FAX:0755-83376182 E-MAIL:szss20@163.com



# 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)	±50 100	±500 10	Notes
Frequency Response (Hz)	1-5000	1-7000	±5%
Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g)	0.5-10000 33000 ±1 <5 5000	0.5-15000 43000 ±1 <5 5000	±1dB
ELECTRICAL			
Compliance Voltage (Vdc)	18 to 30	18 to 30	
Excitation Current (mA)	2 to 20	2 to 20	
Bias Voltage (Vdc)	8 to 12	8 to 12	Room Temperature
Bias Voltage (Vdc)	6 to 13	6 to 13	-55 to +150°C

Output Impedance (Ω) <100 <100 Residual Noise (g RMS) 0.0001 0.00025 Case Grounded Grounding

Ground Isolation Isolated from Mounting Surface

**ENVIRONMENTAL** 

Temperature Response (%) ±10 Operating Temperature (°C) -55 to +150 -55 to +150 Storage Temperature (°C)

**PHYSICAL** 

Sensing Element Ceramic (shear mode) Case Material Stainless Steel Cable Not Applicable

Weight (grams) 11

Through Hole (#8 or M4 cap screw) Mounting

16 lb-in (1.8 N-m) Mounting Torque AWG Not Applicable

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

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

Cable Assembly, 10-32 to BNC (XXX designates length in inches, 10ft standard) 314-XXX

Triaxial Mounting Block AC-D02327 AC-D02328 Adhesive Mounting Adaptor AC-D02636 Magnetic Mounting Adaptor

±10

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# ordering info

PART NUMBERING Model Number+Range EGPE-1A-GGGG Range (0050 is 50g)

Example: EGPE-1A-0050 Model EGPE-1A, 50g

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