

# Model EGPE-1A Accelerometer

IEPE Accelerometer  
+150°C Temperature Performance  
Wide Bandwidth  
Hermetically Sealed

## Description

The Measurement Specialties model EGPE-1A is a high performance IEPE type accelerometer with an operating temperature range up to +150°C. The accelerometer is available in  $\pm 10g$  to  $\pm 500g$  ranges and provides a flat frequency response up to 12kHz. The model EGPE is hermetically sealed and features the popular through hole mount installation for use with standard mounting screws.



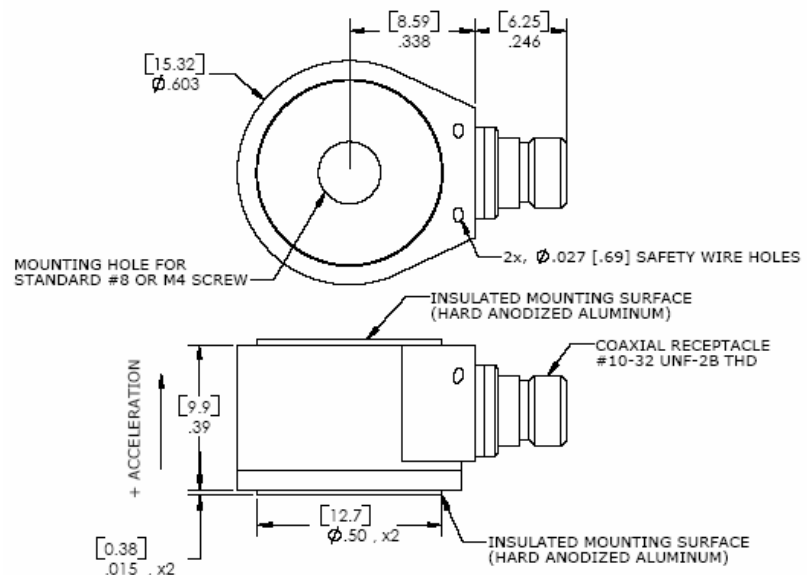
## dimensions

### FEATURES

- Through Hole Mount Accelerometer
- Accommodates Standard Mounting Screws
- Hermetically Sealed
- Ranges:  $\pm 10g$  to  $\pm 500g$
- Wide Bandwidth up to 12kHz
- Isolated Mounting Surface
- Stable Temperature Response
- Annular Shear Mode Crystal

### APPLICATIONS

Vibration/Shock Monitoring  
High Temp IEPE Requirements  
Gearbox Vibration Monitoring  
High Frequency Applications



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# Model EGPE-1A 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.

### Parameters

#### DYNAMIC

	±10	±50	±500	Units	Notes
Range	±10	±50	±500		
Sensitivity	500	100	10	mV/g	
Frequency Response	1-3000	1-10000	1-10000	Hz	±5%
Frequency Response	.1-6000	.1-12000	.1-12000	Hz	±1dB
Resonant Frequency	25	40	40	kHz	Minimum
Residual Noise	.030	.004	.002	g rms	Typical
Linearity			±1	% FSO	Maximum
Transverse Sensitivity (Max)			±5	%	±3% Typical

#### ELECTRICAL

Compliance Voltage	18 to 30	Vdc	
Excitation Current	2 to 20	mA	
Bias Voltage (room temp)	8 to 12	Vdc	
Bias Voltage (-54°C to +150°C)	6 to 13	Vdc	
Output Impedance	100	Ω	Maximum
Ground Isolation	Isolated		

#### PHYSICAL

Sensing Element	Ceramic (shear mode)
Housing	Stainless Steel
Weight	11 grams
Mounting	Through Hole (#8 or M4 cap screw)

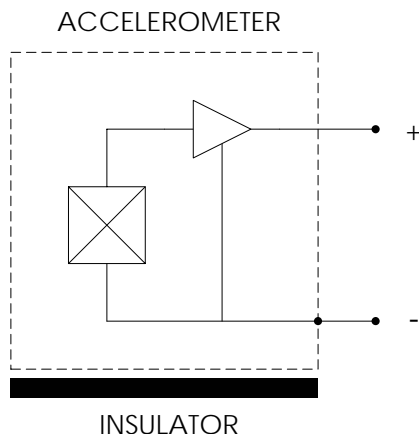
#### ENVIRONMENTAL

Shock Limit	5,000 g's
Operating Temperature	-54 to +150 °C
Humidity	Hermetically sealed

#### OPTIONAL ACCESSORIES

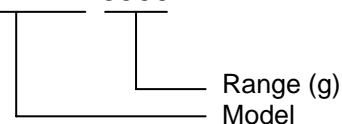
310-XXX	Cable Assembly (XXX designates length in inches, 10ft standard)
AC-D02327	Triax Mounting Block
AC-D02328	Adhesive Mounting Adaptor
AC-D02636	Magnetic Mounting Adaptor

### electrical schematic



### ordering information

#### EGPE-1A-0500



# Distribuidor

Brasil e América do Sul

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