Model EGAXT Accelerometer





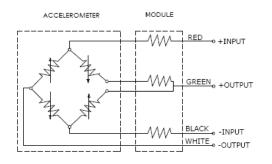
The Model EGAXT miniature accelerometers combine a damping ratio of 0.7 (nominal) with built-in over-range stops that protect the unit against 10,000g shocks. This is ideal for applications which may experience rough handling or in situations where the accelerometer must survive a high initial overload in order to make a low g measurement.



- Small Size, Low Weight
- Static and Dynamic Measurement
- Frequency Response from DC to 3000 Hz
- ±1% Non-Linearity
- -40°C to +120°C Operating Range
- 10,000g Over-range Protection

APPLICATIONS

- Flight Test & Control
- Launch Vehicles
- Robotics
- Shock Testing



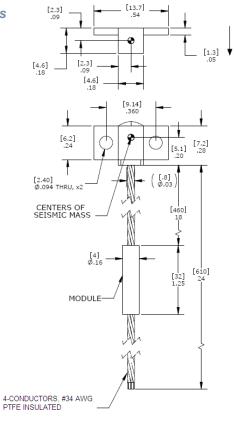




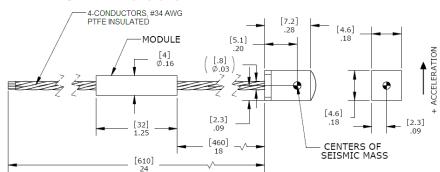


dimensions

EGAXT-F Dimensions



EGAXT Dimensions



Model EGAXT Accelerometer



performance specifications

All values are typical at +24°C, 100Hz and 15Vdc excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice. Standard product parameters are described in PSC-1004 for Plug & Play DC Accelerometers.

Parameters										
DYNAMIC										Notes
Range (g)	±5	±10	±25	±50	±100	±250	±500	±1000	±2500	
Sensitivity (mV/g) ¹	5.2-11.3	4.2-9.0	2.1-4.5	1.57-3.38	1.05-2.25	.52-1.13	.3575	.1738	.0715	
Frequency Response min. (Hz)	0-120	0-140	0-300	0-350	0-400	0-500	0-750	0-1000	0-1400	±1/2dB
Frequency Response nom. (Hz)	0-250	0-300	0-600	0-700	0-900	0-1000	0-1500	0-2000	0-3000	±1/2dB
Natural Frequency (Hz)	500	600	1200	1400	1700	2000	3000	4000	6000	
Non-Linearity (%FSO)	±1	±1	±1	±1	±1	±1	±1	±1	±1	
Transverse Sensitivity (%)	<3	<3	<3	<3	<3	<3	<3	<3	<3	
Damping Ratio	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	Nominal
Shock Limit (g)	2000	2000	5000	5000	10000	10000	10000	10000	10000	

ELECTRICAL

Zero Acceleration Output (mV) ±15 Differential

Excitation Voltage (Vdc) 15 (can be used from 2 to 15Vdc but lower excitation voltage will decrease sensitivity accordingly)

Ground Isolation Isolated from Mounting Surface

ENVIRONMENTAL

 $\begin{array}{lll} \mbox{Thermal Zero Shift} & \pm 2.5 \mbox{mV} \ / \ 50 \mbox{°C} \ (\pm 2.5 \mbox{mV} \ / \ 100 \mbox{°F}) \\ \mbox{Thermal Sensitivity Shift} & + 1\% \ \mbox{to} \ - 4\% \ / \ 50 \mbox{°C} \ \ (+ 1\% \ \mbox{to} \ - 4\% \ / \ 100 \mbox{°F}) \\ \end{array}$

Operating Temperature -40 to 120°C (-40 to 250°F)

Compensated Temperature 20 to 80°C (70 to 170°F), contact factory for other temperature compensation options

Storage Temperature -40 to 120°C (-40 to 250°F)

Humidity Epoxy Sealed, IP61

PHYSICAL

Case Material Stainless Steel

Cable 4x #34 AWG PTFE Leads, 24 inch

Weight <1 grams

Mounting Adhesive or Screw Mount Versions Available (-F configuration)

¹ Output is ratiometric to excitation voltage

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

Optional accessories: MTG-A2 & MTG-A2M Triaxial Mounting Block

101 Three Channel DC Signal Conditioner Amplifier

140 Auto-zero Inline Amplifier

The information in this sheet has been carefully reviewed and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Furthermore, this information does not convey to the purchaser of such devices any license under the patent rights to the manufacturer. Measurement Specialties, Inc. reserves the right to make changes without further notice to any product herein. Measurement Specialties, Inc. assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Typical parameters can and do vary in different applications. All operating parameters must be validated for each customer application by customer's technical experts. Measurement Specialties, Inc. does not convey any license under its patent rights nor the rights of others.

ordering info

EGAXT-F-100-/Z1/L2M/C	Compensated Temp Ranges:	Standard = +20 to +80°C +(70 to +170°F)				
I I Options, otherwise leave blank		Z* = Non standard, contact factory				
I IRange (100 is 100g)	Excitation Voltage:	Standard = 15Vdc				
I Housing, F for flange mount	_	V* = Non standard, contact factory				
(otherwise leave blank)	Special Cable Length:	L00F = Replace "00" with length in feet				
,		L00M = Replace "00" with length in meter				
	Connector Wired to Cable:	C = Microtech type male or equivalent				

Example: EGAXT-F-100-/L2M

Model EGAXT, Flange Mount Housing, 100g Range, 2 Meter Cable Length