## **Model EGAXT Accelerometer**





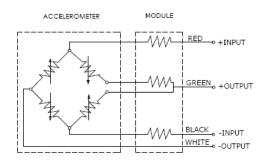
The Model EGAXT miniature accelerometers combine a damping ratio of 0.7 (nominal) with built-in over-range stops that protect the unit against 10,000g shocks. This is ideal for applications which may experience rough handling or in situations where the accelerometer must survive a high initial overload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

#### **FEATURES**

- 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



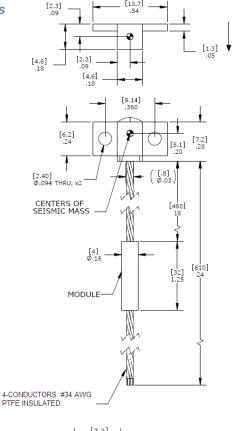




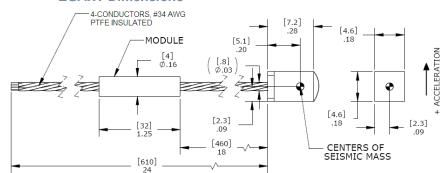


#### dimensions

**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.

									Notes
±5	±10	±25	±50	±100	±250	±500	±1000	±2500	
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	
0-120	0-140	0-300	0-350	0-400	0-500	0-750	0-1000	0-1400	±1/2dB
0-250	0-300	0-600	0-700	0-900	0-1000	0-1500	0-2000	0-3000	±1/2dB
500	600	1200	1400	1700	2000	3000	4000	6000	
±1	±1	±1	±1	±1	±1	±1	±1	±1	
<3	<3	<3	<3	<3	<3	<3	<3	<3	
0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	Nominal
2000	2000	5000	5000	10000	10000	10000	10000	10000	
	5.2-11.3 0-120 0-250 500 ±1 <3 0.7	5.2-11.3	5.2-11.3 4.2-9.0 2.1-4.5   0-120 0-140 0-300   0-250 0-300 0-600   500 600 1200   ±1 ±1 ±1   <3	5.2-11.3     4.2-9.0     2.1-4.5     1.57-3.38       0-120     0-140     0-300     0-350       0-250     0-300     0-600     0-700       500     600     1200     1400       ±1     ±1     ±1     ±1       <3	5.2-11.3     4.2-9.0     2.1-4.5     1.57-3.38     1.05-2.25       0-120     0-140     0-300     0-350     0-400       0-250     0-300     0-600     0-700     0-900       500     600     1200     1400     1700       ±1     ±1     ±1     ±1     ±1       <3	5.2-11.3     4.2-9.0     2.1-4.5     1.57-3.38     1.05-2.25     .52-1.13       0-120     0-140     0-300     0-350     0-400     0-500       0-250     0-300     0-600     0-700     0-900     0-1000       500     600     1200     1400     1700     2000       ±1     ±1     ±1     ±1     ±1     +1       <3	5.2-11.3     4.2-9.0     2.1-4.5     1.57-3.38     1.05-2.25     .52-1.13     .3575       0-120     0-140     0-300     0-350     0-400     0-500     0-750       0-250     0-300     0-600     0-700     0-900     0-1000     0-1500       500     600     1200     1400     1700     2000     3000       ±1     ±1     ±1     ±1     ±1     ±1     ±1       <3	5.2-11.3     4.2-9.0     2.1-4.5     1.57-3.38     1.05-2.25     .52-1.13     .3575     .17-38       0-120     0-140     0-300     0-350     0-400     0-500     0-750     0-1000       0-250     0-300     0-600     0-700     0-900     0-1000     0-1500     0-2000       500     600     1200     1400     1700     2000     3000     4000       ±1     ±1     ±1     ±1     ±1     ±1     ±1     ±1     ±1     ±1       <3	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       0-120     0-140     0-300     0-350     0-400     0-500     0-750     0-1000     0-1400       0-250     0-300     0-600     0-700     0-900     0-1000     0-1500     0-2000     0-3000       500     600     1200     1400     1700     2000     3000     4000     6000       ±1

**ELECTRICAL** 

Zero Acceleration Output (mV) ±15

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** 

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

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)

<sup>1</sup> 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

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### 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