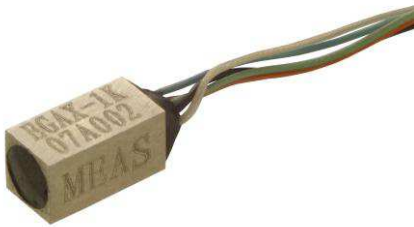


# MODEL EGAS3 TRIAXIAL ACCELEROMETER

## SPECIFICATIONS

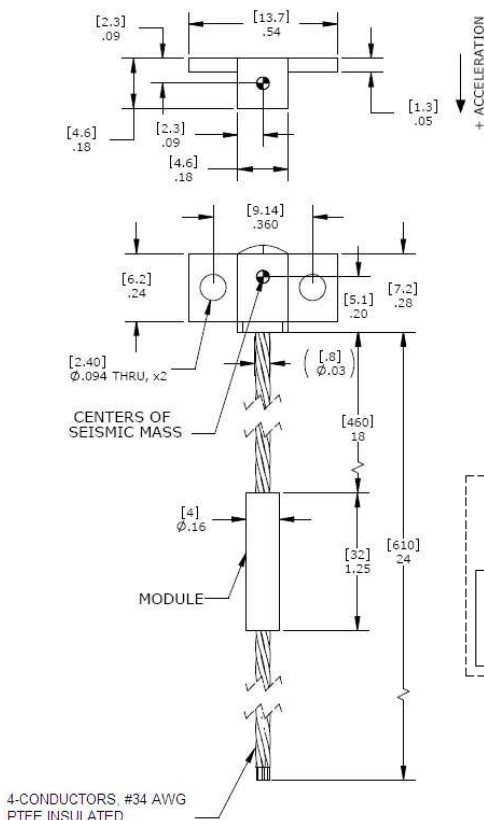
- Miniature Design
- DC Response, Critically Damped
- 10,000 g Over-range Stops
- Broad Temperature Range

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.



## dimensions

### EGAXT-F Dimensions



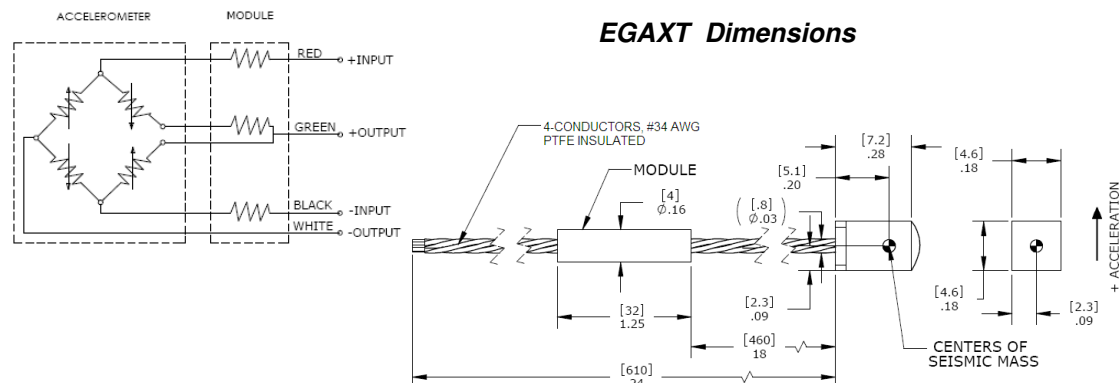
## FEATURES

- 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

### EGAXT Dimensions



**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										Notes
<b>DYNAMIC</b>										
Range (g)	±5	±10	±25	±50	±100	±250	±500	±1000	±2500	
Sensitivity (mV/g) <sup>1</sup>	5.2-11.3	4.2-9.0	2.1-4.5	1.57-3.38	1.05-2.25	.52-1.13	.35-.75	.17-.38	.07-.15	
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	
<b>ELECTRICAL</b>										
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)									
Input Resistance (Ω)	2000									Nominal
Output Resistance (Ω)	1000									Nominal
Insulation Resistance (MΩ)	>100									@50Vdc
Ground Isolation	Isolated from Mounting Surface									
<b>ENVIRONMENTAL</b>										
Thermal Zero Shift	±2.5mV / 50°C (±2.5mV / 100°F)									
Thermal Sensitivity Shift	+1% to -4% / 50°C (+1% to -4% / 100°F)									
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									
<b>PHYSICAL</b>										
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

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. makes no warranty, representation or guarantee regarding the suitability of its product for any particular purpose, nor does 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**  
**+(70 to +170°F)**

I I I \_\_\_ Options, otherwise leave blank  
contact factory

I I \_\_\_\_\_ Range (100 is 100g)

I \_\_\_\_\_ Housing, F for flange mount  
contact factory

(otherwise leave blank)

with length in meter

male or equivalent

**Compensated Temp Ranges:**

**Standard = +20 to +80°C**

**Z\* = Non standard,**

**Excitation Voltage:**

**Standard = 15Vdc**

**V\* = Non standard,**

**Special Cable Length:**

**L00F = Replace "00" with length in feet**

**L00M = Replace "00"**

**Connector Wired to Cable:**

**C = Microtech type**

**Example: EGAXT-F-100-/L2M**

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

**TE.com/sensorsolutions**

Measurement Specialties, Inc., a TE Connectivity company.

Measurement Specialties, TE Connectivity, TE Connectivity (logo) and EVERY CONNECTION COUNTS are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each product for the specific application.

© 2015 TE Connectivity Ltd. family of companies All Rights Reserved.