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## The Model EGAX/EGAXT

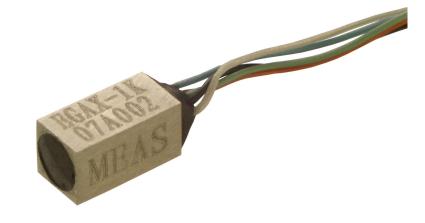
miniature accelerometers combine a damping ratio of 0.7 (nominal) with builtin overrange stops that protect the unit against 10,000g shocks. This is ideal for applications which may experience rough handling or in situations where the accelerometer must survive a high initial overload in order to make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

### **APPLICATIONS**

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

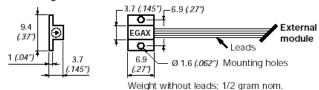


# dimensions

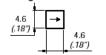
#### EGAXT- 500 through -2500 & all EGAX-

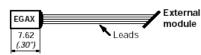


#### EGAXT-F-500 through -2500 & all EGAX-F-



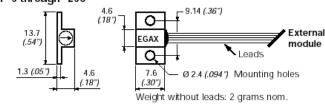


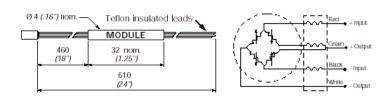




Weight without leads: 1 gram nom.

## EGAXT-F- 5 through -250





Model EGAX/EGAXT www.meas-spec.com 01/15/2010



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.

Parameters	
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DYNAMIC											Notes
Range (g)	±5	±10	±15	±25	±50	±100	±250	±500	±1000	±2500	
Sensitivity EGAX (mV/g)	7.0-15	5.6-12	4.2-9.0	2.8-6.0	2.1-4.5	1.4-3.0	.70-1.5	.3575	.1738	.0715	
Sensitivity EGAXT (mV/g)	5.2-11.3	4.2-9.0	3.1-6.8	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	0-220	0-300	0-350	0-400	0-500	0-750	0-1000	0-1400	±1/2dB
Frequency Response nom. (Hz)	0-250	0-300	0-450	0-600	0-700	0-900	0-1000	0-1500	0-2000	0-3000	±1/2dB
Natural Frequency (Hz)	500	600	900	1200	1400	1700	2000	3000	4000	6000	
Non-Linearity (%FSO)	±1	±1	±1	±1	±1	±1	±1	±1	±1	±1	
Transverse Sensitivity (%)	<3	<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	0.7	Nominal
Shock Limit (g)	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	

#### **ELECTRICAL**

Zero Acceleration Output (mV) Differential Excitation Voltage (Vdc) 15 (can be used from 2 to 15Vdc but lower excitation voltage will decrease sensitivity accordingly) Input Resistance (Ω) 1000 Nominal 450 Output Resistance ( $\Omega$ ) Nominal Insulation Resistance (MΩ) >100 @50Vdc

Shock limit for EGAX is in the Sensitive Axis only, for EGAXT in all 3 axes

# Ground Isolation **ENVIRONMENTAL**

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** 

#### **PHYSICAL**

Aluminum Case Material

Cable 4x Teflon Leads, 24 inch

Weight <1 grams

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

Isolated from Mounting Surface

AWG

+Excitation = Red; -Excitation = Black; +Output = Green; -Output = White Wiring color code:

Optional accessories: MTG-A1 & MTG-A1M Triaxial Mounting Block; All EGAX Ranges or EGAXT-500 to -2500

MTG-A2 & MTG-A2M Triaxial Mounting Block; EGAXT-5 to -250

FOR ADJUSTABLE ZERO OFFSET:

**EXCITATION VOLTAGE:** 

SPECIAL LEAD LENGTH:

SPECIAL MODULE LOCATION:

CONNECTOR WIRED TO LEADS:

TRIAXIAL MOUNTING BLOCKS:

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# ordering info

Model Range Options

L00F or L00M

MOOF or MOOM

COMPENSATED TEMPERATURE RANGES: STANDARD 5 WIRE BRIDGE WIRING

STANDARD L00F L00M

Non-Standard, contact factory 5 wire 15 Vdc

20°C TO 80°C (70°F TO 170°F)

Replace "00" with total length in feet

Replace "00" with total length in meters M00F Replace "00" with distance between sensor and module in feet

MOOM Replace "00" with distance between sensor and module in meters

Microtech, male or equivalent (w/o mate) MTG-A1 & MTG-A1M FOR ALL EGAX AND EGAXT-500 THROUGH 2500 RANGES. MTG-A2 & MTG-A2M FOR EGAXT-5 THROUGH EGAXT-250 RANGES

Model EGAX/EGAXT

www.meas-spec.com

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