

Model EGAX/EGAXT Accelerometer

Miniature Design
DC Response
10,000 g Overage Stops
Broad Temperature Range

The Model EGAX/EGAXT

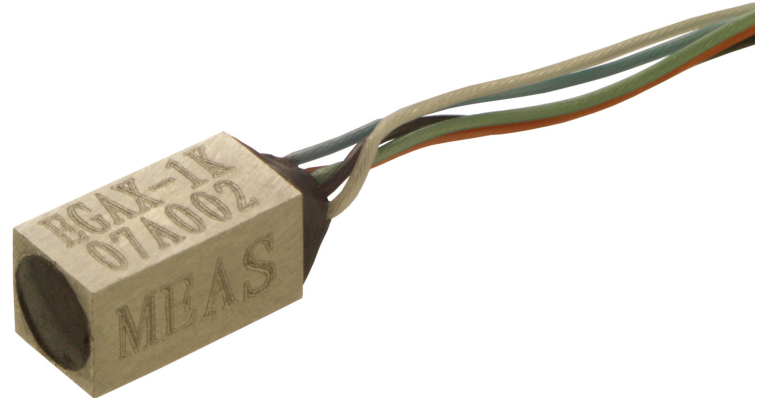
miniature accelerometers combine a damping ratio of 0.7 (Nominal) with built-in overrange stops that protect the unit against 10,000g shocks. This is ideal for applications which may experience rough handling or in situations where the accelerometer must survive a high initial overload in order to make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

FEATURES

- Small Size
- Low Weight
- Static and Dynamic Measurement
- Frequency Response through 3000 Hz
- $\pm 1\%$ Non-Linearity
- -40°C to $+120^{\circ}\text{C}$ Operating Temperature Range
- 10,000 g Overage Protection

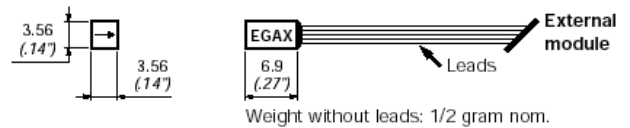
APPLICATIONS

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

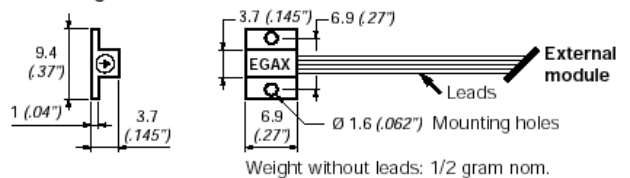


dimensions

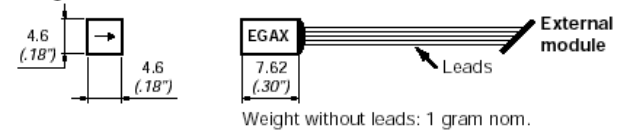
EGAXT- 500 through -2500 & all EGAX-



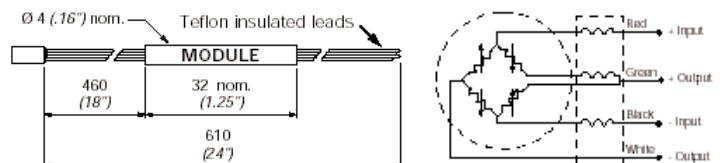
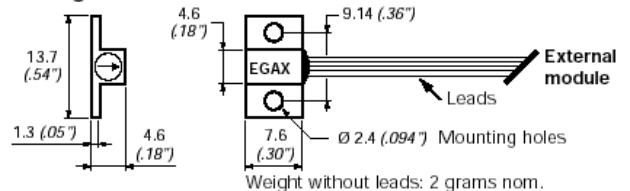
EGAXT-F-500 through -2500 & all EGAX-F-



EGAXT- 5 through -250



EGAXT-F- 5 through -250



Model EGAX/EGAXT

performance specifications

All values are typical at 25 °C and 15 Vdc excitation unless otherwise stated. Measurement Specialties, Inc. reserves the right to updated and changes these specifications without notice.

Parameters

DYNAMIC

Range(+/-g)	5	10	15	25	50	100	250	500	1000	2500
Sensitivity EGAX (mV/g)	10	8	6	4	3	2	1	0.5	0.25	0.1
Sensitivity EGAXT (mV/g)	7.5	6	4.5	3	2.25	1.5	0.75	0.5	0.25	0.1
Freq. Resp. (Hz) / ±0.5dB	0-250	0-300	0-450	0-600	0-700	0-900	0-1000	0-1500	0-2000	0-3000
Resonance (Hz)	500	600	900	1200	1400	1700	2000	3000	4000	6000
Non-Linearity (%)						±1				
Transverse Sensitivity (% MAX)						3				
Zero Acceleration Output (mV)						±15				
Thermal Zero Shift (50 °C/100 °F)						±2.5mV/±2.5mV				
Thermal Sensitivity Shift (50 °C/100 °F)						1 to -4%				
Damping Ratio (Nominal)						0.7				

ELECTRICAL

Voltage Excitation (Vdc)	15
Input Resistance (Ohms)	1000
Output Resistance (Ohms)	450
Cable Output Connections	
Red	+EXC
Black	-EXC
Green	+OUT
White	-OUT

PHYSICAL

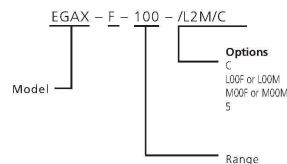
Case Material	Aluminum
Cable Connections	24 inch, 4 conductor leads
Weight (grams)	<=1
Mounting	Adhesive and Screw Mount Versions Available

ENVIRONMENTAL

Shock Limit for Sensitive Axis (EGAX), all Axis (EGAXT)	10,000
Operating Temperature (°C/°F)	-40 to 120/-40 to 250
Compensated Temperature (°C/°F)	20 to 80/70 to 170

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ordering info



COMPENSATED TEMPERATURE RANGES:	STANDARD = 20°C to 80°C (70°F to 170°F)
5 WIRE BRIDGE WIRING FOR ADJUSTABLE ZERO OFFSET:	Z* = Non-standard, contact factory. S = 5 Wire
EXCITATION VOLTAGE:	STANDARD = 15VDC
SPECIAL LEAD LENGTH:	L00F = Replace "00" with total length in feet. L00M = Replace "00" with total length in meters. M00F = Replace "00" with distance between sensor and module in feet. M00M = Replace "00" with distance between sensor and module in meters. C = Microtech type male or equivalent (w/o mate)
SPECIAL MODULE LOCATION:	
CONNECTOR WIRED TO LEADS:	C
TRIAxIAL MOUNTING BLOCKS:	MTG-A1 & MTG-A1M FOR ALL EGAX AND EGAXT-500 THROUGH 2500 RANGES. MTG-A2 & MTG-A2M FOR EGAXT-5 THROUGH EGAXT-250 RANGES