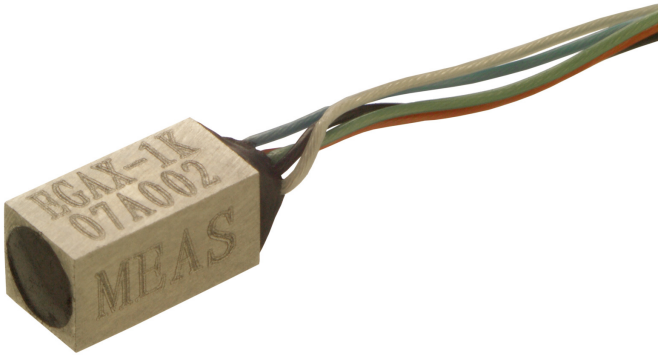
measurement SPECIALTIES

Model EGAX/EGAXT Accelerometer

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



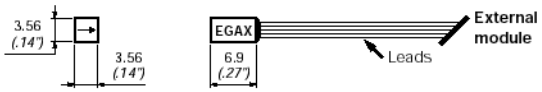
The Model EGAX/EGAXT
miniature accelerometers combine a damping ratio of 0.7 (Nominal) with built-in overrange stops that protect the unit against 10,000g shocks. This is ideal for applications which may experience rough handling or in situations where the accelerometer must survive a high initial overload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

FEATURES
- Small Size
- Low Weight
- Static and Dynamic Measurement
- Frequency Response through
- 3000 Hz
- ± 1% Non-Linearity
- -40℃ to +120℃ Operating Temperature Range
- 10,000 g Overrange Protection

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

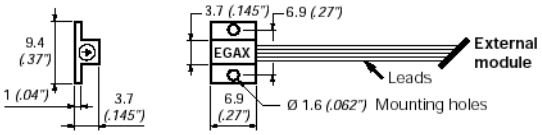
dimensions

EGAXT- 500 through -2500 & all EGAX-



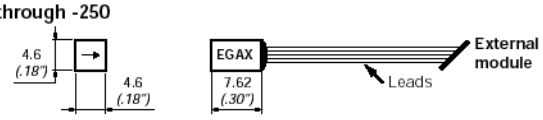
Weight without leads: 1/2 gram nom.

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



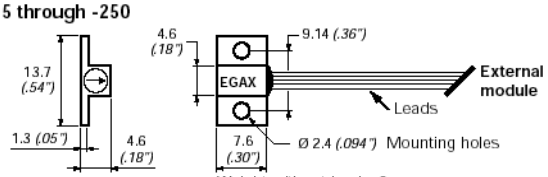
Weight without leads: 1/2 gram nom.

EGAXT- 5 through -250

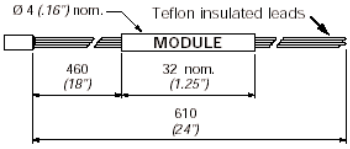


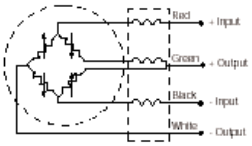
Weight without leads: 1 gram nom.

EGAXT-F- 5 through -250



Weight without leads: 2 grams nom.





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measurement SPECIALTIES

Model EGAX/EGAXT

performance specifications

All values are typical at 25℃ 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℃/100℉)	±2.5mV/±2.5mV
Thermal Sensitivity Shift (50℃/100℉)	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 (℃/℉)	-40 to 120/-40 to 250
Compensated Temperature (℃/℉)	20 to 80/70 to 170

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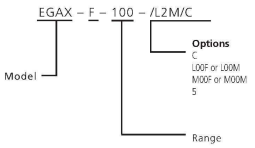
ordering info



COMPENSATED TEMPERATURE RANGES:	STANDARD	= 20°C to 80°C (70°F to 170°F)
	Z*	= Non-standard, contact factory.
5 WIRE BRIDGE WIRING FOR ADJUSTABLE ZERO OFFSET:	5	= 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.
SPECIAL MODULE LOCATION:	M00F	= Replace "00" with distance between sensor and module in feet.
	M00F	= Replace "00" with distance between sensor and module in meters.
CONNECTOR WIRED TO LEADS:	C	= Microtech type male or equivalent (w/o mate)
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

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