

Model EGAS3 Accelerometer

Miniature Design

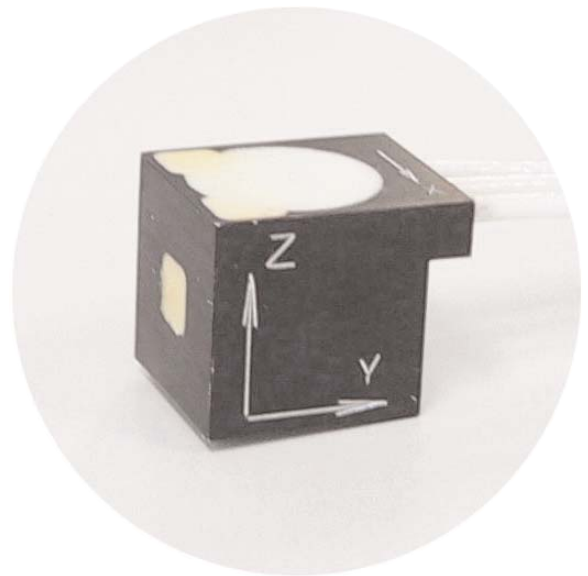
DC Response

10,000 g Overrange Stops

Broad Temperature Range

DESCRIPTION

The Model EGAS3 is a cube-shaped, triaxial accelerometer with frequency response to 3500 Hz. Operating from 15 VDC, this unit features a transverse sensitivity of 2% MAX and damping ratio of 0.7. Over range stops ensure survivability of the unit under extreme shock conditions while its temperature performance offers a minimal zero shift of ± 1 mV per 50°C . With rugged, shielded Teflon cables, these units are well-suited for Robotics, Machine Control, Maintenance, Inspection and Vibration applications.



dimensions

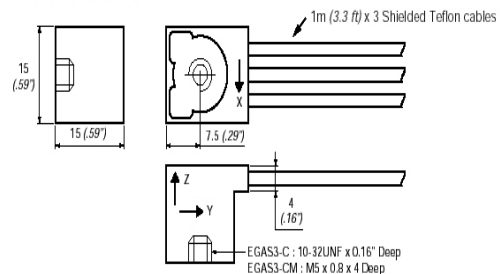
FEATURES

- ◆ Rugged Triaxial
- ◆ Low Zero Thermal Shift
- ◆ Operating Temperature -40°C to 120°C
- ◆ Shielded Teflon Cables

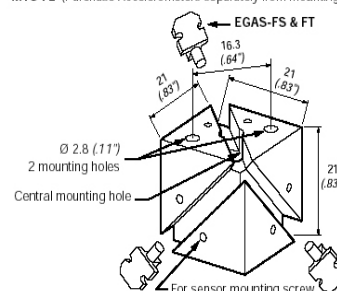
APPLICATIONS

- ◆ Automotive Testing
- ◆ General Purpose
- ◆ Engine Testing
- ◆ Offshore Drilling

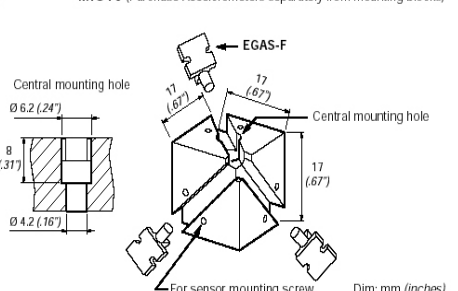
EGAS3-C & EGAS3-CM



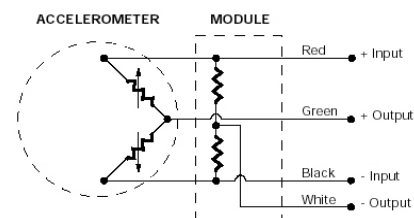
MTG-F2 (Purchase Accelerometers separately from mounting blocks)



MTG-F3 (Purchase Accelerometers separately from mounting blocks)



wiring for each separate axis



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performance specifications

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

PARAMETERS

DYNAMIC

Range (±g)	5	10	25	50	100	250	500	1000	2500
Sensitivity (mV/g)	15	10	4	2	1	0.4	0.2	0.1	0.04
Frequency Response (Hz)	0-150	0-200	0-400	0-600	0-900	0-1300	0-1750	0-2500	0-3500
Resonance (Hz)	300	400	800	1200	1800	2600	3500	5000	7000
Non-Linearity (%)	±1								
Transverse Sensitivity (% MAX)	2								
Zero Acceleration Output (mV)	±15								
Thermal Zero Shift (50°C/100°F)	±1.0mV								
Thermal Sensitivity Shift (50°C/100°F)	±2.5%								
Damping Ratio (Nominal)	0.7								

ELECTRICAL

Voltage Excitation (Vdc)	15
Input Resistance (Ohms)	1300
Output Resistance (Ohms)	1500
Cable Output Connections	
Red	+EXC
Black	-EXC
Green	+OUT
White	-OUT

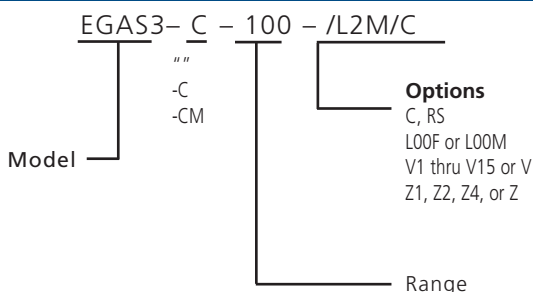
PHYSICAL

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

ordering information



options

COMPENSATED TEMPERATURE RANGES:	STANDARD = 20°C to 80°C (70°F to 170°F) Z* = Non-standard, contact factory. 5 = 5 Wire
5 WIRE BRIDGE WIRING FOR ADJUSTABLE ZERO OFFSET:	
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. M00F = Replace "00" with distance between sensor and module in meters.
SPECIAL MODULE LOCATION:	
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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