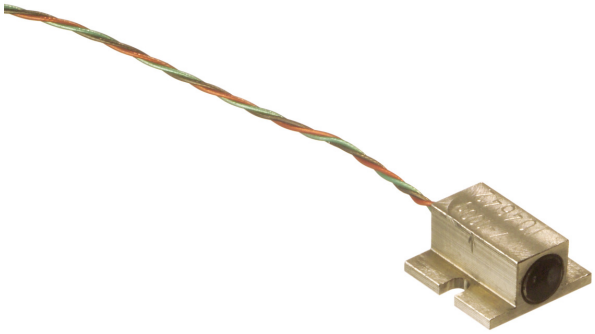
measurement SPECIALTIES

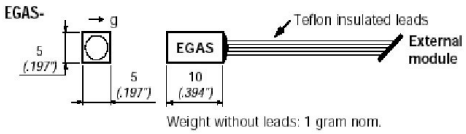
Model EGAS Accelerometer

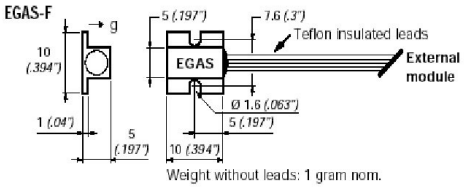
Miniature Design
DC Response
10,000 g Overrange STops
Broad Temperature Range

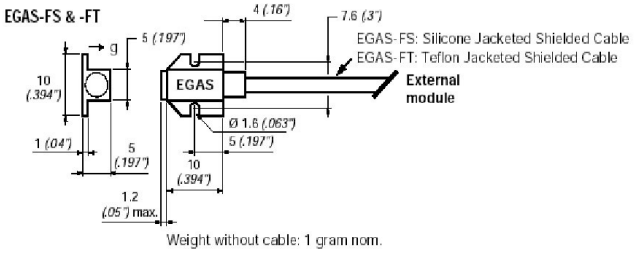


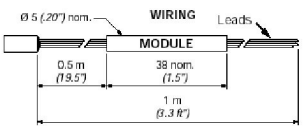
The Model EGAS is a miniature, uniaxial accelerometer featuring ranges from +/- 5 g's through 2500 g's. This rugged unit weights less than 1 gram (without leads) and has an over range limit of +/- 10,000 g's. The 1/2 active bridge is suitable for shunt calibration. With an operating temperature range of -40ºC to 120ºC, the EGAS is the unit of choice for measurement professionals in the automotive, military, aerospace and transportation industries. Its combined nonlinearity and hysteresis of +/- 1% makes the EGAS well-suited for on-site testing as well as laboratory use.

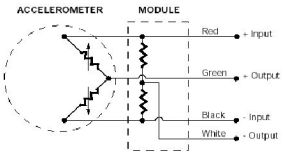
dimensions











FEATURES
- Small Size
- Weighs < 1 gram
- Static and Dynamic Measurement
- Frequency Response through 3500 Hz
- 2% Transverse Sensitivity
- Damping Ratio 0.7

APPLICATIONS
- Sports and recreation
- Modeling
- Biodynamics
- Entertainment

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measurement SPECIALTIES

Model EGAS Accelerometer

performance specifications

All values are typical at 25℃ 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	10000
Non-Linearity (%)						±1					
Transverse Sensitivity (% MAX)						3					
Zero Acceleration Output (mV)						±15					
Thermal Zero Shift (50℃/100℉)						±1.0mV					
Thermal Sensitivity Shift (50℃/100℉)						±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 (℃/℉)						-40 to 120/-40 to 250					
Compensated Temperature (℃/℉)						20 to 80/70 to 170					

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

EGAS – F – 100 – /L2M/C

Model: EGAS
"" -F -FS -FT
Range: 100
Options: C, R, RS, L00F or L00M, M00F or M00M, X, Z, 5

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.
	LOOM	= 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)

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