

Model EGAS Accelerometer

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

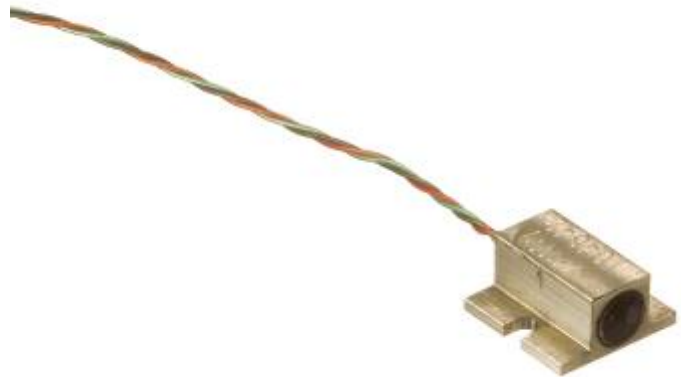
The Model EGAS is a miniature, uniaxial accelerometer featuring ranges from +/- 5 g's through 2500 g's. This rugged unit weighs less than 1 gram (without leads) and has an over range limit of +/- 10,000 g's. The 1/2 active bridge is suitable for shunt calibration. With an operating temperature range of -40°C to 120°C, 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.

FEATURES

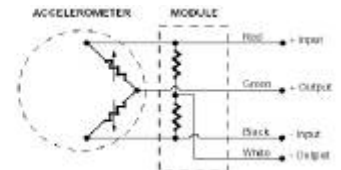
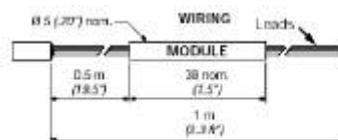
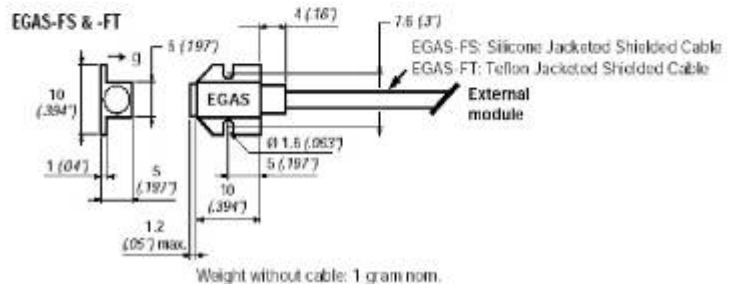
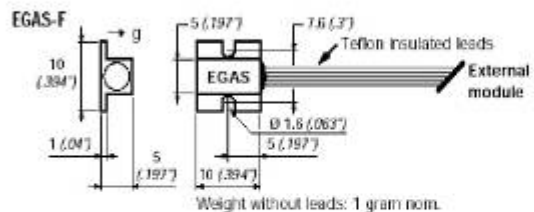
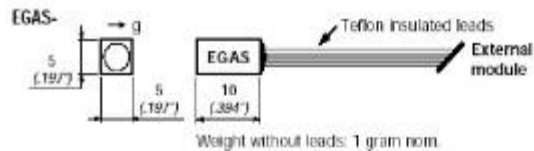
- Small Size
- Weighs < 1 gram
- Static and Dynamic Measurement
- Frequency Response through 3500 Hz
- 2% Transverse Sensitivity
- Damping Ratio 0.7

APPLICATIONS

- Sports and recreation
- Modeling
- Biodynamics
- Entertainment



dimensions



Model EGAS Accelerometer

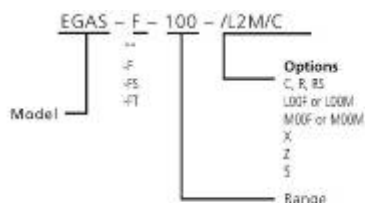
performance specifications

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. Standard product parameters are described in PSC-1004 for Plug & Play DC Accelerometers.

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°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				

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



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:	S	= 5 Wire
EXCITATION VOLTAGE:	STANDARD	= 15VDC
SPECIAL LEAD LENGTH:	LDOF	= Replace "100" with total length in feet.
	LDCM	= Replace "100" with total length in meters.
	MDOF	= Replace "100" with distance between sensor and module in feet.
	MOOF	= Replace "100" with distance between sensor and module in meters.
CONNECTOR WIRED TO LEADS:	C	= Microtech type male or equivalent (w/ mate)

CONTATO

Endereço

Rua Sete de Setembro, 2671 - Centro
13560-181 - São Carlos - SP - Brasil

Telefone

+ 55 (16) 3371-0112

Fax

+ 55 (16) 3372-7800

Internet

www.metrolog.net
metrolog@metrolog.net



Metrolog Controles de Medição