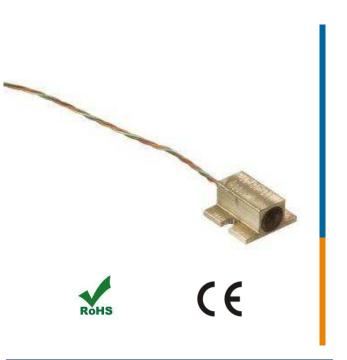
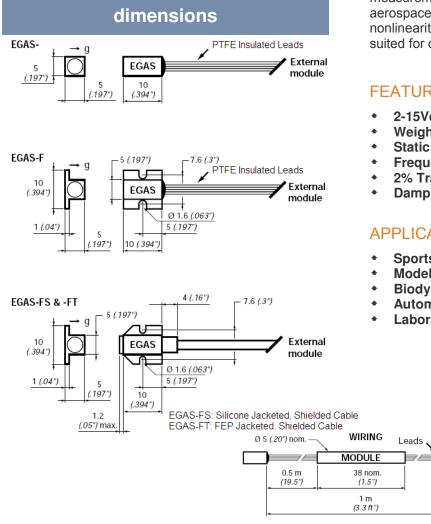


AUTHORIZED DISTRIBUTOR





MODEL EGAS ACCELEROMETER

SPECIFICATIONS

- Miniature Design, Light Weight
- **DC Response, Critically Damped** 4
- 10,000 g Over-range Stops
- **Broad Temperature Range**

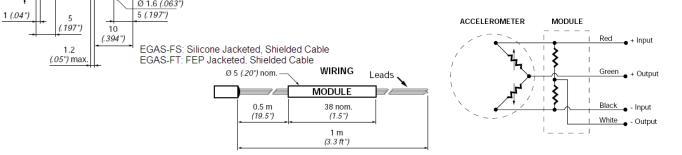
The Model EGAS is a miniature, uniaxial accelerometer featuring ranges from ±5g through ±2500g. This rugged unit weighs less than 1 gram (without leads) and has an overrange limit of 10,000g's. The 1/2 active bridge is suitable for shunt calibration. With an operating temperature range of -40°C to +120°C,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

FEATURES

- 2-15Vdc Excitation Voltage
- Weighs < 1 gram
- Static and Dynamic Measurement
- Frequency Response through 3500 Hz
- 2% Transverse Sensitivity
- **Damping Ratio 0.7**

APPLICATIONS

- Sports and Recreation
- **Modeling and Entertainment**
- **Biodynamics**
- Automotive Testing
- Laboratory Usage



SENSOR SOLUTIONS /// Model EGAS Rev C



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PERFORMANCE SPECIFICATIONS

All values are typical at +24°C, 100Hz and 15Vdc excitation unless otherwise stated. Measurement Specialties 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										Notes
Range (g)	±5	±10	±25	±50	±100	±250	±500	±1000	±2500	110100
Sensitivity (mV/g) Frequency Response min. (Hz)	20 0-80	10 0-120	4 0-240	2 0-350	1 0-500	0.4 0-750	0.2 0- 1000	0.1 0- 1500	0.04 0- 2000	±1/2dB
Frequency Response nom. (Hz)	0-150	0-200	0-400	0-600	0-900	0-1300	0- 1750	0- 2500	2000 0- 3500	±1/2dB
Natural Frequency (Hz) Non-Linearity (%FSO)	300 ±1	400 ±1	800 ±1	1200 ±1	1800 ±1	2600 ±1	3500 ±1	5000 ±1	7000 ±1	
Transverse Sensitivity (%)	<2	<2	<2	<2	<2	<2	<2	<2	<2	
Damping Ratio Shock Limit (g)	0.7 500	0.7 1000	0.7 2000	0.7 5000	0.7 10000	0.7 10000	0.7 10000	0.7 10000	0.7 10000	Nominal
ELECTRICAL Zero Acceleration Output	±15									Differentia
(mV) Excitation Voltage (Vdc)		1 15 (can be used from 2 to 15Vdc but lower excitation voltage will decrease sensitivity accordingly)								
Input Resistance (Ω) Output Resistance (Ω) Insulation Resistance	1300 Nominal 1500 Nominal >100 @50Vdc									
(MΩ) Ground Isolation	Isolated	Isolated from Mounting Surface								
	14.0mm		1.0							
Thermal Zero Shift Thermal Sensitivity Shift		±1.0mV / 50°C (±1.0mV / 100°F) ±2.5% / 50°C (±2.5% / 100°F)								
Operating Temperature Compensated	-40 to +	-40 to +120°C (-40 to +250°F) +20 to+80°C (+70 to +170°F), contact factory for other temperature compensation options								
Temperature Storage Temperature Humidity		-40 to +120°C (-40 to +250°F) Epoxy Sealed								
PHYSICAL										
Case Material		Stainless Steel								
Cable Weight		4x #34 AWG Conductors PTFE Insulated, Shielded & Jacketed on –FS & -FT Options 1 grams								
Mounting		Screw Mount for EGAS-F, Adhesive Mount for EGAS								
Wiring color code:	+Excita	+Excitation = Red; -Excitation = Black; +Output = Green; -Output = White								
Calibration supplied:	CS-FR	CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±1/2dB Frequency Response Limit								
Optional accessories:	MTG-F MTG-F 121 140									

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Sweden

USA/Canada

ORDERING INFO

EGAS – F – 100 – /Z1/L2M/C	Compensated Temp Ranges:	Standa	rd = +20 to +80°C (+70 to +170°F)		
I I I Options, otherw	ise leave blank	Z1	= -20 to +40°C (0 to +100°F)		
I I Range (100 is 100g)			= 0 to +60°C (+32 to +140°F)		
I Housing (-F, -FS	S, -FT or leave blank)	Z4	= +40 to +90°C (+100 to +200°F)		
		Z*	= Non standard, contact factory		
Excitation Voltage:		Standard = 15Vdc			
		V*	= Non standard, contact factory		
	Special Cable Length:	LOOF	= Replace "00" with length in feet		
		LOOM	= Replace "00" with length in meter		
	Connector Wired to Cable:	С	= Microtech type male or equivalent		
		R	= RJ Telephone Male, for EGAS & -F		
Example: EGAS-F-100-/L2M		RS	= RJ Telephone Male, for –FS & -FT		

Model EGAS, F Housing Configuration, 100g Range, 2 Meter Cable Length

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