

MODEL EGAS ACCELEROMETER

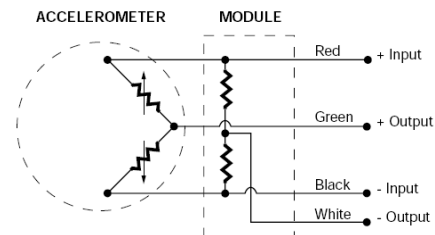
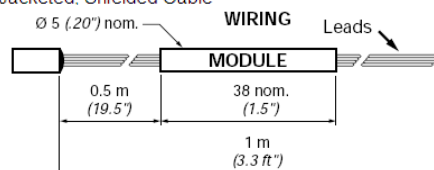
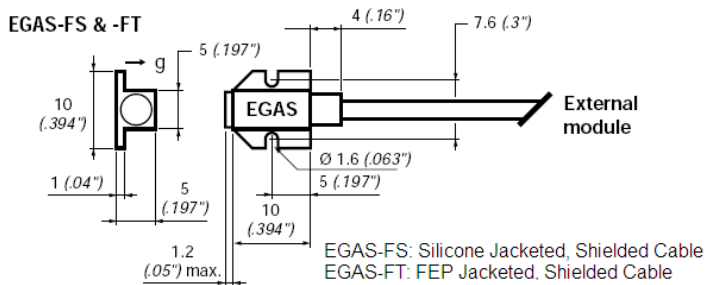
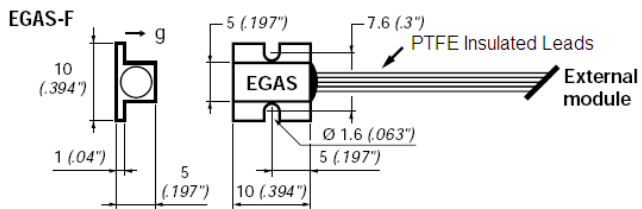
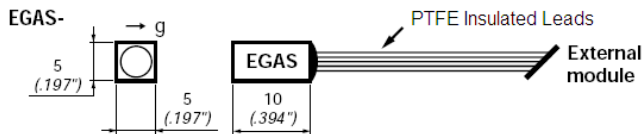
SPECIFICATIONS

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

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



dimensions



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

	±5	±10	±25	±50	±100	±250	±500	±1000	±2500	Notes
Range (g)										
Sensitivity (mV/g)	20	10	4	2	1	0.4	0.2	0.1	0.04	
Frequency Response min. (Hz)	0-80	0-120	0-240	0-350	0-500	0-750	0-	0-	0-	±1/2dB
Frequency Response nom. (Hz)	0-150	0-200	0-400	0-600	0-900	0-1300	1000	1500	2000	±1/2dB
Natural Frequency (Hz)	300	400	800	1200	1800	2600	3500	5000	7000	
Non-Linearity (%FSO)	±1	±1	±1	±1	±1	±1	±1	±1	±1	
Transverse Sensitivity (%)	<2	<2	<2	<2	<2	<2	<2	<2	<2	
Damping Ratio	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	Nominal
Shock Limit (g)	500	1000	2000	5000	10000	10000	10000	10000	10000	

ELECTRICAL

Zero Acceleration Output (mV)	±15									Differential
Excitation Voltage (Vdc)	15 (can be used from 2 to 15Vdc but lower excitation voltage will decrease sensitivity accordingly)									
Input Resistance (Ω)	1300									Nominal
Output Resistance (Ω)	1500									Nominal
Insulation Resistance (MΩ)	>100									@50Vdc
Ground Isolation	Isolated from Mounting Surface									

ENVIRONMENTAL

Thermal Zero Shift	±1.0mV / 50°C (±1.0mV / 100°F)									
Thermal Sensitivity Shift	±2.5% / 50°C (±2.5% / 100°F)									
Operating Temperature Compensated Temperature	-40 to +120°C (-40 to +250°F)									
Storage Temperature	+20 to +80°C (+70 to +170°F), contact factory for other temperature compensation options									
Humidity	-40 to +120°C (-40 to +250°F) Epoxy Sealed									

PHYSICAL

Case Material	Stainless Steel									
Cable	4x #34 AWG Conductors PTFE Insulated, Shielded & Jacketed on -FS & -FT Options									
Weight	1 grams									
Mounting	Screw Mount for EGAS-F, Adhesive Mount for EGAS									

Wiring color code: +Excitation = Red; -Excitation = Black; +Output = Green; -Output = White

Calibration supplied: CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±1/2dB Frequency Response Limit

Optional accessories:

MTG-F2	Triaxial Mounting Block for EGAS-FS & -FT
MTG-F3	Triaxial Mounting Block for EGAS-F
121	3-Channel Precision Low Noise DC Amplifier
140	Auto-zero Inline Amplifier

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ORDERING INFO

EGAS – F – 100 – /Z1/L2M/C

| | | Options, otherwise leave blank
| | Range (100 is 100g)
| Housing (-F, -FS, -FT or leave blank)

Compensated Temp Ranges:

Standard = +20 to +80°C (+70 to +170°F)
Z1 = -20 to +40°C (0 to +100°F)
Z2 = 0 to +60°C (+32 to +140°F)
Z4 = +40 to +90°C (+100 to +200°F)
Z* = Non standard, contact factory

Excitation Voltage:

Standard = 15Vdc

Special Cable Length:

V* = Non standard, contact factory

Connector Wired to Cable:

L00F = Replace "00" with length in feet
L00M = Replace "00" with length in meter
C = Microtech type male or equivalent
R = RJ Telephone Male, for EGAS & -F
RS = RJ Telephone Male, for -FS & -FT

Example: EGAS-F-100-L2M

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

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