Model EGAS Accelerometer

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

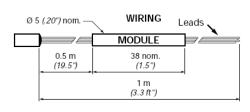
The Model EGAS is a miniature, uniaxial accelerometer featuring ranges from \pm 5g through \pm 2500g. This rugged unit weighs less than 1 gram (without leads) and has an over-range limit of 10,000g's. The ½ active bridge is suitable for shunt calibration. With an operating temperature range of -40°C 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 \pm 1% makes the EGAS well-suited for onsite 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



EGAS-

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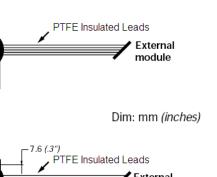
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EGAS-F

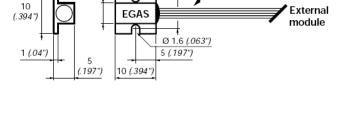
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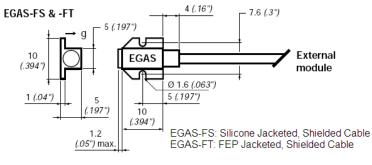
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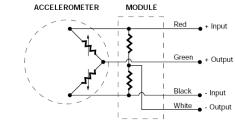
EGAS

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深圳市亿为测控电子有限公司

Model EGAS Accelerometer

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 Range (g) Sensitivity (mV/g) Frequency Response min. (H: Frequency Response nom. (H Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Damping Ratio Shock Limit (g)	20 z) 0-80 Hz) 0-150 300 ±1 <2 0.7	±10 10 0-120 0-200 400 ±1 <2 0.7 1000	±25 4 0-240 0-400 800 ±1 <2 0.7 2000	±50 2 0-350 0-600 1200 ±1 <2 0.7 5000	±100 1 0-500 0-900 1800 ±1 <2 0.7 10000	±250 0.4 0-750 0-1300 2600 ±1 <2 0.7 10000	±500 0.2 0-1000 0-1750 3500 ±1 <2 0.7 10000	±1000 0.1 0-1500 0-2500 5000 ±1 <2 0.7 10000	±2500 0.04 0-2000 0-3500 7000 ±1 <2 0.7 10000	Notes ±1/2dB ±1/2dB Nominal
ELECTRICAL Zero Acceleration Output (mV Excitation Voltage (Vdc) Input Resistance (Ω) Output Resistance (Ω) Insulation Resistance (M Ω) Ground Isolation	, 15 (can be 1300 1500 ≻100	15 (can be used from 2 to 15Vdc but lower excitation voltage will decrease sensitivity accordingly) 1300 1500							Differential Nominal Nominal @50Vdc	
ENVIRONMENTAL Thermal Zero Shift Thermal Sensitivity Shift Operating Temperature Compensated Temperature Storage Temperature Humidity	±2.5% / 50° -40 to +120 +20 to+80° -40 to +120	±1.0mV / 50°C (±1.0mV / 100°F) ±2.5% / 50°C (±2.5% / 100°F) -40 to +120°C (-40 to +250°F) +20 to+80°C (+70 to +170°F), contact factory for other temperature compensation options -40 to +120°C (-40 to +250°F) Epoxy Sealed								
PHYSICAL Case Material Cable Weight Mounting	4x #34 AW 1 grams	Stainless Steel 4x #34 AWG Conductors PTFE Insulated, Shielded & Jacketed on –FS & -FT Options 1 grams Screw Mount for EGAS-F, Adhesive Mount for EGAS								
Wiring color code:	+Excitation = Re	xcitation = Red; -Excitation = Black; +Output = Green; -Output = White								
Calibration supplied:	CS-FREQ-0100	-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±1/2dB Frequency Response Limit								
Optional accessories:	MTG-F2 MTG-F3 121 140	G-F3 Triaxial Mounting Block for EGAS-F 3-Channel Precision Low Noise DC Amplifier								
ardaring infa										

ordering info

EGAS – F – 100 – /Z1/L2M/C	Compensated Temp Ranges:	Standard = +20 to +80°C (+70 to +170°F)
I I IOptions, otherwise leave blank		Z1 = $-20 \text{ to } +40^{\circ}\text{C} (0 \text{ to } +100^{\circ}\text{F})$
I I Range (100 is 100g)		Z2 = 0 to +60°C (+32 to +140°F)
I Housing (-F, -FS, -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:	L00F = Replace "00" with length in feet
		L00M = Replace "00" with length in meter
	Connector Wired to Cable:	C = 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

联系方式



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