

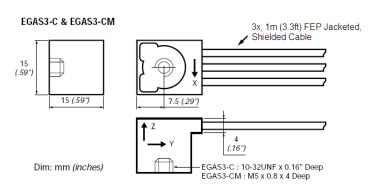
MODEL EGAS3 TRIAXIAL ACCELEROMETER

SPECIFICATIONS

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

The Model EGAS3 is a miniature, critically damped triaxial accelerometer available in ranges from ±5g through ±2500g. This rugged unit weighs less than 8 grams (without leads) and has an over-range limit of 10,000g's. Operating from nominal 15Vdc excitation, the model EGAS3 features a ½ active bridge that is suitable for shunt calibration. With an operating temperature range of -40°C to +120°C, the EGAS3 is the unit of choice for measurement professionals in the automotive, military, aerospace and transportation industries.

dimensions

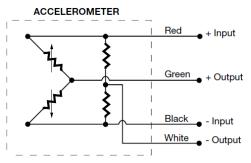


FEATURES

- Small Size, Stud Mount
- 2-15Vdc Excitation Voltage
- Static and Dynamic Measurement
- Frequency Response through 3500 Hz
- 2% Transverse Sensitivity
- Damping Ratio 0.7
- Internal Temperature Compensation

APPLICATIONS

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



1/2-Active Bridge suitable for + Output shunt calibration on completion side (R Cal).

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)	±5	±10	±25	±50	±100	±250	±500	±1000	±2500	Notes
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- 1000	0- 1500	0- 2000	±1/2dB
Frequency Response nom. (Hz)	0-150	0-200	0-400	0-600	0-900	0-1300	0- 1750	0- 2500	0- 3500	±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 Śensitivity (%)	<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									Differentia I
Excitation Voltage (Vdc)	15 (can be used from 2 to 15Vdc but lower excitation voltage will decrease sensitivity									-

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 @50Vdc Insulation Resistance >100

 $(M\Omega)$

Isolated from Mounting Surface Ground Isolation

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 -40 to +120°C (-40 to +250°F)

Compensated +20 to+80°C (+70 to +170°F), contact factory for other temperature compensation options

Temperature

Storage Temperature -40 to +120°C (-40 to +250°F)

Epoxy Sealed Humidity

PHYSICAL

Anodized Aluminum Case Material

#34 AWG Conductors PTFE Insulated, Braided Shield, FEP Jacket Cable

8 grams Weight Stud Mount Mounting

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: 121 3-Channel Precision Low Noise DC Amplifier

> 140 Auto-zero Inline Amplifier

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ORDERING INFO

Excitation Voltage: Standard = 15Vdc

Special Cable Length:

V* = Non standard, contact factory

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

= RJ Telephone Male, for -FS & -FT

RS

Example: EGAS3-C-10-/L2M

Model EGAS3, C Housing Configuration (#10-32 Thread), 10g Range All Axes, 2 Meter Cable Length

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