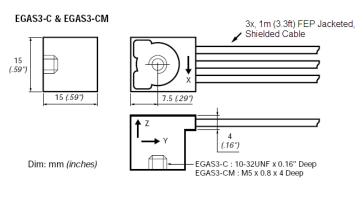


dimensions



MODEL EGAS3 TRIAXIAL ACCELEROMETER

SPECIFICATIONS

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

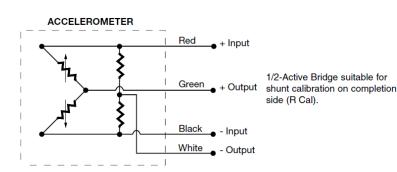
The Model EGAS3 is a miniature, critically damped triaxial accelerometer available in ranges from ±5g through ±2500g. This rugged unit weighs less than 8 grams (without leads) and has an over-range limit of 10,000g's. Operating from nominal 15Vdc excitation, the model EGAS3 features a ½ active bridge 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.

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



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) Frequency Response	20 0-80	10 0-120	4 0-240	2 0-350	1 0-500	0.4 0-750	0.2 0-	0.1 0-	0.04 0-	±1/2dB
min. (Hz) Frequency Response	0-150	0-200	0-400	0-600	0-900	0-1300	1000 0-	1500 0-	2000 0-	±1/2dB
nom. (Hz) Natural Frequency (Hz)	300	400	800	1200	1800	2600	1750 3500	2500 5000	3500 7000	
Non-Linearity (%FSO) Transverse Sensitivity	±1 <2	±1 <2	±1 <2	±1 <2	±1 <2	±1 <2	±1 <2	±1 <2	±1 <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 accordingly)									
Input Resistance (Ω) Output Resistance (Ω) Insulation Resistance (M Ω)	Nominal 1300 Nominal 1500 Nominal >100 @50Vdc									
Ground Isolation	Isolated from Mounting Surface									
ENVIRONMENTAL Thermal Zero Shift Thermal Sensitivity Shift Operating Temperature Compensated Temperature Storage Temperature Humidity	±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	Anodized Aluminum #34 AWG Conductors PTFE Insulated, Braided Shield, FEP Jacket 8 grams Stud Mount									
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:	121 140				sion Low N e Amplifier	oise DC Ar	nplifier			

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ORDERING INFO

EGAS3 – C – 10/50/50 – /Z1/L2M/C	Compensated Temp Ranges:	Standa	rd = +20 to +80°C +(70 to +170°F)		
I I IOptions,	otherwise leave blank	Z1	= -20 to +40°C (0 to +100°F)		
I IRange (X/Y/	Z2	= 0 to +60°C (+32 to +140°F)			
I Housing (-C, -	CM)	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		
		LOOM	= Replace "00" with length in meter		
	Connector Wired to Cable:	С	 Microtech type male or equivalent 		
		R	= RJ Telephone Male, for EGAS & -F		
		RS	= RJ Telephone Male, for -FS & -FT		

Example: EGAS3-C-10-/L2M

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