Model EGCS3-D Triaxial Accelerometer

Triaxial, DC Response 10,000 g Overrange Stops ±5g to ±5000g Dynamic Range **Critically Damped**



EGCS3

dimensions

(.748")

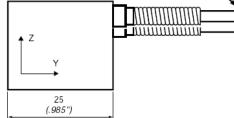
accelerometer is available in ranges from ±5g through ±5000g. With over-range limit to ±10,000g and spring strain relief, this rugged device is ideal for offshore, downhole and shock testing applications. Its small size and screw mounting ensure ease of installation while its low power requirements and DC output facilitate integration into data acquisition and monitoring systems. The EGCS3 also features CE Conformance to EN 61010-1. EN 50081-1 and EN 50082-1.

The Model EGCS3-D triaxial

FEATURES

- ±5g to ±5000g Dynamic Range
- Heavy Duty, Rugged
- Static and Dynamic Measurement
- DC to 4000Hz Frequency Response
- ±1% Non-Linearity
- -40 °C to +120 °C Temperature Range
- 10,000g Over-range Protection

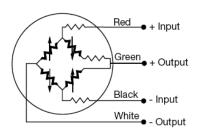
(.748") Spring Strain Relief 16 (.63") Long (.985") Ø 4.2 (.165") Mounting holes (.83") (.118") 1 m (3.3 ft) Shielded cable



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APPLICATIONS

- **Blast Testing**
- **Machine Control**
- Performance Testing
- **Engine Testing**
- Road Vehicle Testing



Model EGCS3-D Triaxial 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.

DYNAMIC											Notes
Range (g)	±5	±10	±25	±50	±100	±250	±500	±1000	±2500	±5000	
Sensitivity (mV/g)	40	20	8	4	2	8.0	0.4	0.2	0.08	0.04	
Frequency Response min. (Hz)	0-80	0-120	0-240	0-350	0-500	0-750	0-1000	0-1500	0-2000	0-2400	±1/2dB
Frequency Response nom. (Hz)	0-150	0-200	0-400	0-600	0-900	0-1300	0-1750	0-2500	0-3500	0-4000	±1/2dB
Natural Frequency (Hz)	300	400	800	1200	1800	2600	3500	5000	7000	8000	
Non-Linearity (%FSO)	±1	±1	±1	±1	±1	±1	±1	±1	±1	±1	
Transverse Sensitivity (%)	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
Damping Ratio	0.7	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	10000	

ELECTRICAL

Zero Acceleration Output (mV) ±15

Excitation Voltage (Vdc) ±15 (can be used from 2 to 15Vdc but lower excitation voltage will decrease sensitivity accordingly)

Input Resistance (Ω) 2000 Nominal Output Resistance (Ω) 1000 Nominal Insulation Resistance (Ω) >100 (Ω 50Vdc

Ground Isolation Isolated from Mounting Surface

ENVIRONMENTAL

Thermal Zero Shift ± 2.0 mV / 50°C (± 2.0 mV / 100°F) Thermal Sensitivity Shift ± 2.5 % / 50°C (± 2.5 % / 100°F) Operating Temperature ± 2.0 mV / ± 2.0 mV / ± 2.0 mV / ± 100 °F) ± 2.0 mV / ± 2.0 mV / ± 100 °F) ± 2.0 mV / ± 2.0 mV / ± 100 °F)

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

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

Humidity Epoxy Sealed

PHYSICAL

Case Material Anodized Aluminum

Cable PFA Insulated Leads, Braided Shield, Silicone Jacket

Weight <50 grams Mounting Screw Mount

AWG #28

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: 101 Three Channel DC Signal Conditioner Amplifier

140 Auto-zero Inline Amplifier

ordering info

EGCS3 - D - 100 - /Z1/L2M/C

I ____ Options, otherwise leave blank I____ Range (100 is 100g)

Compensated Temp Ranges: Standard = +20 to +80 $^{\circ}$ C +(70 to +170 $^{\circ}$ F) Z^{*} = Non standard, contact factory

Excitation Voltage: Standard = 15Vdc

Special Cable Length:

V* = Non standard, contact factory
= Replace "00" with length in feet
L00M = Replace "00" with length in meter

Connector Wired to Cable: C = Microtech type male or equivalent

Example: EGCS3-D-100-/L2M

Model EGCS3, 100g Range, 2 Meter Cable Length

联系方式



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