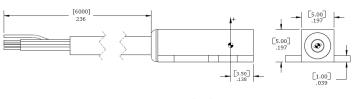
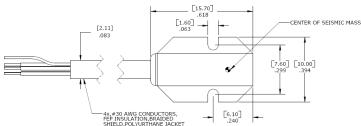
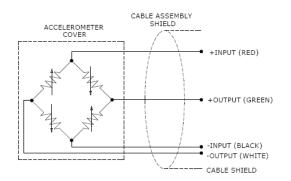




DIMENSIONS







MODEL EGCS-S425 ACCELEROMETER

SPECIFICATIONS

- Range ±50 to ±2000g
- Critically Damped
- Internally Compensated
- ISO 6487 Compliant

The Model EGCS-S425 is a small, ISO 6487 and SAE J211 compliant piezoresistive accelerometer. This unit features internal temperature compensation, anodized aluminum alloy housing and flexible cable output. This sensing element is damped with fluid to extend useful frequency range and reduce the effect of high frequencies.

FEATURES

- Fluid Damping
- Ranges from ±50g to ±2000g
- Flexible Cable
- -20°C to +80°C Temperature Range
- Built-in mechanical stops
- Low zero offset <±10 mV
- Internal Temperature Compensation
- ◆ 10Vdc Excitation with ±150mV Output

APPLICATIONS

- Auto Safety Testing
 - Crash
 - Sled
 - Dummy
- Pedestrian Impact
- Dummy Head Impact

PERFORMANCE SPECIFICATIONS

All values are typical at ± 24 °C, 100Hz and 10Vdc 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.

RANGES AND OUTPUTS:

g range "FS"	g over- range limit	Attenuation Fh	Attenuation Fn	Attenuation 2Fh	Natural Frequency Minimum
		At 180 Hz	At 300 Hz	At 360 Hz	Min.
±50	±5000	±0.5dB	+0.5dB / -2dB	+0.5dB / -4dB	1 kHz
		At 600 Hz	At 1000 Hz	At 1200 Hz	
±100	±5000	±0.5dB	+0.5dB / -2dB	+0.5dB / -4dB	1.5 kHz
		At 1000 Hz	At 1650 Hz	At 2000 Hz	
±250	±10000	±0.5dB	+0.5dB / -2dB	+0.5dB / -4dB	2.5 kHz
		At 1200 Hz	At 2000 Hz	At 4000 Hz	
±500	±10000	±0.2dB	+0.2dB / -1dB	<+0.35dB	4.5 kHz
±1000	±10000	±0.2dB	+0.2dB / -1dB	<+0.35dB	6 kHz
±2000	±10000	±0.2dB	+0.2dB / -1dB	<+0.35dB	10 kHz

DYNAMIC	Value	Unit	Notes
Full Scale Output	±150	mV	Nominal (Min ±100, Max ±225)
Non-Linearity and Hysteresis	< ±1	%FSO	
Transverse Sensitivity	1	%	Nominal
Zero Acceleration Output	±10	mV	
Thermal Zero Shift (TZS)	±3	mV	
Thermal Sensitivity Shift (TSS)	< ±0.1	% / ºC	
Damping Ratio	0.7		Nominal
ELECTRICAL			
Voltage Excitation	10	Vdc	Alternate excitations available
Input Resistance	2000	Ω	Nominal
Output Resistance	1000	Ω	Nominal
PHYSICAL			
Weight Without Cable	< 5	Grams	Standard cable length = 6 meters
Case Material			Anodized aluminum
Cable	4x #30 AWG, FEP Insulated, Braided Shield, TPU Jacket		

ENVIRONMENTAL

Operating Temperature -20 to +80 °C

MODEL EGCS-S425 ACCELEROMETER

Compensated Temperature Range -10 to +50 °C

Humidity Epoxy sealed, IP61

OPTIONS AND ACCESSORIES

Calibration supplied: CS-FREQ-0100 NIST Traceable Amplitude Calibration

Optional accessories: AC-A04208 Triaxial Mounting Block

121 3-Channel Precision Low Noise DC Amplifier

140 Auto-zero Inline Amplifier

The information in this sheet has been carefully reviewed and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Furthermore, this information does not convey to the purchaser of such devices any license under the patent rights to the manufacturer. Measurement Specialties, Inc. reserves the right to make changes without further notice to any product herein. Measurement Specialties, Inc. makes no warranty, representation or guarantee regarding the suitability of its product for any particular purpose, nor does Measurement Specialties, Inc. assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Typical parameters can and do vary in different applications. All operating parameters must be validated for each customer application by customer's technical experts. Measurement Specialties, Inc. does not convey any license under its patent rights nor the rights of others.

ORDERING INFORMATION

EGCS – S425 – 100 – /Z1/L2M/C IOptions, otherwise leave blank	Excitation Voltage:	Standard = 10Vdc V* = Non standard,
contact factory I Range (100 is 100g)	Special Cable Length:	L00M = Replace "00"
with length in meter	Connector Wired to Cable: Dallas ID Module: Shunt Calibration:	Contact Factory Contact Factory RCAL00 = Replace "00"
with value of % Range		(ex. RCAL50;
50% FS)		(0%.11071200,

Example: EGCS-S425-2000-/L2M

Model EGCS-S425, 2000g Range, 2 Meter Cable Length