

	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Sensitivity(± 50 %)(at 10 VDC excitation)	0.010 mV/g	0.001 mV/(m/s ²)	[1]
	0.001 mV/V/g	0.0001 mV/V/(m/s ²)	
Measurement Range	± 20 kg	± 196,100 m/s ² pk	
Frequency Range(± 1 dB)	0 to 10,000 Hz	0 to 10,000 Hz	
Resonant Frequency	>60 kHz	>60 kHz	
Damping Ratio	5 % Critical	5 % Critical	[5]
Non-Linearity	± 1 %	± 1 %	
Transverse Sensitivity	≤ 3 %	≤ 3 %	
Environmental			
Overload Limit(Shock)	± 60,000 g pk	± 588,000 m/s ² pk	[4][3]
(Mechanical Stops)	≥ 30 kg	≥ 294,200 m/s ² pk	
Temperature Range(Operating)	-65 to 250 °F	-54 to 121 °C	
Temperature Coefficient of Sensitivity	-0.11 %/°F	-0.20 %/°C	[5]
Zero g Offset Temperature Shift	± 10 mV	± 10 mV	[6]
Base Strain Sensitivity	0.10 g/με	0.98 (m/s ²)/με	[5]
Magnetic Sensitivity	10 μg/gauss	0.98 (m/s ²)/Tesla	[5]
Electrical			
Excitation Voltage(Maximum)	15.0 VDC	15.0 VDC	
Current Consumption	<3 mA	<3 mA	
Input Resistance(± 2000 ohm)	6000 ohm	6000 ohm	[1]
Output Resistance(± 2000 ohm)	6000 ohm	6000 ohm	[1]
Offset Voltage	-40 to +40 mVDC	-40 to +40 mVDC	[1]
Settling Time	0.01 sec	0.01 sec	[2]
Electrical Isolation(Case)	≥ 10 ⁸ ohm	≥ 10 ⁸ ohm	[3]
Physical			
Sensing Element	Piezoresistive MEMS	Piezoresistive MEMS	
Sensing Geometry	Full Active	Full Active	
Housing Material	Titanium	Titanium	
Sealing	Epoxy	Epoxy	
Size (Hex x Height)	3/8 in x .50 in	3/8 in x 12.7 mm	
Weight(without cable)	0.088 oz	2.5 gm	[5]
Electrical Connector	Integral Cable	Integral Cable	
Electrical Connection Position	Side	Side	
Cable Type	034 4-cond Shielded	034 4-cond Shielded	
Cable Termination	Pigtail Ends	Pigtail Ends	
Cable Length	10 ft	3.05 m	
Mounting	Integral Stud	Integral Stud	
Mounting Thread	1/4-28 Male	1/4-28 Male	

OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

M - Metric Mount

Mounting Thread	M6 x 0.75 Male	M6 x 0.75 Male
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NOTES:

[1] Verified with test data provided on supplied calibration certificate.

[2] Settling Time is the maximum time after power-up for the Offset Voltage to be within +/-2% of Measurement Range output of the final offset value. Mounting surface must be at thermal equilibrium.

[3] Individually tested to ensure compliance with specified value.

[4] Half-sine pulse duration, ≥ 20 μsec.

[5] Typical.

[6] -65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)

SUPPLIED ACCESSORIES:

Model ACS-62 Shock Calibration of Piezoresistive High Amplitude Accelerometers

Entered: <i>JH</i>	Engineer: <i>TCJ</i>	Sales: <i>RWM</i>	Approved: <i>EB</i>	Spec Number:
Date: <i>4-23-10</i>	Date: <i>4-19-10</i>	Date: <i>4-19-10</i>	Date: <i>4-22-10</i>	43078

*All specifications are at room temperature unless otherwise specified.
In the interest of constant product improvement, we reserve the right to change specifications without notice.*

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