

	ENGLISH	SI	
<b>Performance</b>			
Sensitivity (±5 %)	50 mV/g	5.10 mV/(m/s <sup>2</sup> )	[2]
Measurement Range	±100 g pk	±981 m/s <sup>2</sup> pk	
Frequency Range (±5 %)	1 to 5000 Hz	1 to 5000 Hz	
Frequency Range (±10 %)	0.7 to 8000 Hz	0.7 to 8000 Hz	
Frequency Range (±3 dB)	0.35 to 15000 Hz	0.35 to 15000 Hz	
Resonant Frequency	≥28 kHz	≥28 kHz	
Broadband Resolution (1 to 10000 Hz)	0.001 g rms	0.01 m/s <sup>2</sup> rms	[1]
Non-Linearity	≤1 %	≤1 %	[3]
Transverse Sensitivity	≤5 %	≤5 %	[4]
<b>Environmental</b>			
Overload Limit (Shock)	±10000 g pk	±98100 m/s <sup>2</sup> pk	
Temperature Range (Operating)	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	≤0.0002 g/με	≤0.002 (m/s <sup>2</sup> )/με	[1]
<b>Electrical</b>			
Excitation Voltage	18 to 30 VDC	18 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤100 ohm	≤100 ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Discharge Time Constant	0.5 to 2.0 sec	0.5 to 2.0 sec	
Settling Time (within 10% of bias)	<10 sec	<10 sec	
Spectral Noise (1 Hz)	640 μg/√Hz	6278 (μm/sec <sup>2</sup> /√Hz)	[1]
Spectral Noise (10 Hz)	140 μg/√Hz	1373 (μm/sec <sup>2</sup> /√Hz)	[1]
Spectral Noise (100 Hz)	36 μg/√Hz	353 (μm/sec <sup>2</sup> /√Hz)	[1]
Spectral Noise (1 kHz)	13 μg/√Hz	128 (μm/sec <sup>2</sup> /√Hz)	[1]
<b>Physical</b>			
Sensing Element	Quartz	Quartz	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Welded Hermetic	Welded Hermetic	
Size (Hex x Height)	0.75 in x 1.18 in	19.1 mm x 29.9 mm	
Weight	0.7 oz	20 gm	[1]
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Top	Top	
Mounting Thread	10-32 Female	10-32 Female	

**Optional Versions** (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

<b>B - Low bias electronics</b>			[2]
Output Bias Voltage	4.5 to 7.5 VDC	4.5 to 7.5 VDC	
Excitation Voltage	12 to 30 VDC	12 to 30 VDC	
Constant Current Excitation	1 to 20 mA	1 to 20 mA	
Measurement Range	±60 g pk	±589 m/s <sup>2</sup> pk	
<b>J - Ground Isolated</b>			
Frequency Range (±5 %)	1 to 4000 Hz	1 to 4000 Hz	
Frequency Range (±10 %)	0.7 to 7000 Hz	0.7 to 7000 Hz	
Resonant Frequency	≥22 kHz	≥22 kHz	
Electrical Isolation (Base)	≥10 <sup>8</sup> ohm	≥10 <sup>8</sup> ohm	

<b>Q - Extended discharge time constant</b>			[2]
Frequency Range (±5 %)	0.1 to 5000 Hz	0.1 to 5000 Hz	
Frequency Range (±10 %)	0.07 to 8000 Hz	0.07 to 8000 Hz	
Discharge Time Constant	>10 sec	>10 sec	
Settling Time (within 10% of bias)	45 sec	45 sec	
Supplied Accessory: Model ACS-4 Single-axis, low frequency phase and amplitude response calibration from 0.5 to 10 Hz			

<b>W - Water Resistant Cable</b>			
Electrical Connector	Sealed Integral Cable	Sealed Integral Cable	
Electrical Connection Position	Top	Top	

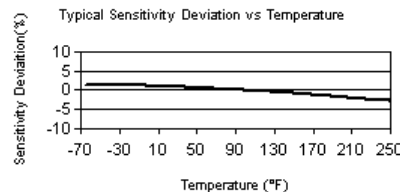
**Notes**

- [1] Typical.
- [2] B and Q options supplied with a sensitivity tolerance of ± 10 %.
- [3] Zero-based, least-squares, straight line method.
- [4] Transverse sensitivity is typically ≤ 3%.
- [5] See PCB Declaration of Conformance PS023 for details.

**Supplied Accessories**

- 080A109 Petro Wax (1)
- 080A12 Adhesive Mounting Base ( )
- 081B05 Mounting Stud (10-32 to 10-32) (1)
- ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)
- M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)

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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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