

	ENGLISH	SI	
<b>Performance</b>			
Sensitivity(± 20 %)	100 mV/g	10.2 mV/(m/s <sup>2</sup> )	[1]
Measurement Range(12 VDC)	± 50 g	± 490 m/s <sup>2</sup>	[2]
Measurement Range(5 VDC)	± 15 g	± 147 m/s <sup>2</sup>	[2]
Frequency Range(± 3 dB)	90 to 600,000 cpm	1.5 to 10,000 Hz	
Resonant Frequency	1,320 kcpm	22 kHz	[2]
Broadband Resolution(1 to 10,000 Hz)	2 mg	19.6 mm/s <sup>2</sup>	[2]
Non-Linearity	± 1 %	± 1 %	[3]
Transverse Sensitivity	≤ 7 %	≤ 7 %	
<b>Environmental</b>			
Overload Limit(Shock)	5,000 g pk	49,050 m/s <sup>2</sup> pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[2]
Enclosure Rating	IP68	IP68	
<b>Electrical</b>			
Settling Time(within 1% of bias)	≤ 5.0 sec	≤ 5.0 sec	
Discharge Time Constant	≥ 0.1 sec	≥ 0.1 sec	
Excitation Voltage	5 to 12 VDC	5 to 12 VDC	
Output Impedance	< 100 Ohm	< 100 Ohm	
Current Draw	0.5 mA	0.5 mA	
Output Bias Voltage	2.5 to 6 VDC	2.5 to 6 VDC	
Spectral Noise(10 Hz)	18 µg/√Hz	176.6 (µm/sec <sup>2</sup> )/√Hz	[2]
Spectral Noise(100 Hz)	4 µg/√Hz	39.2 (µm/sec <sup>2</sup> )/√Hz	[2]
Spectral Noise(1 kHz)	2 µg/√Hz	19.6 (µm/sec <sup>2</sup> )/√Hz	[2]
Electrical Isolation(Case)	> 10 <sup>8</sup> Ohm	> 10 <sup>8</sup> Ohm	
<b>Physical</b>			
Size (Hex x Height)	9/16 in x 2.5 in	14 mm x 64 mm	
Weight(with cable)	3.5 oz	99.3 gm	
Mounting	Stud	Stud	
Mounting Thread	1/4-28 Female	1/4-28 Female	[4]
Mounting Torque	2 to 5 ft-lb	2.7 to 6.8 Nm	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Molded	Molded	
Electrical Connector	Molded Integral Cable	Molded Integral Cable	
Electrical Connection Position	Top	Top	
Cable Termination	Blunt cut	Blunt cut	
Electrical Connections(Red)	Pos (+) Power	Pos (+) Power	
Electrical Connections(Black)	Ground	Ground	
Electrical Connections(White)	Acceleration Output	Acceleration Output	
Cable Length	10 ft	3 m	
Cable Type	062 3-cond shielded with polyurethane jacket	062 3-cond shielded with polyurethane jacket	

**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  
Supplied Accessory: Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1)


**NOTES:**

[1] Conversion Factor 1g = 9.81 m/s<sup>2</sup>.  
 [2] Typical.  
 [3] Zero-based, least-squares, straight line method.  
 [4] 1/4-28 has no equivalent in S.I. units.  
 [5] See PCB Declaration of Conformance PS107 for details.

**SUPPLIED ACCESSORIES:**

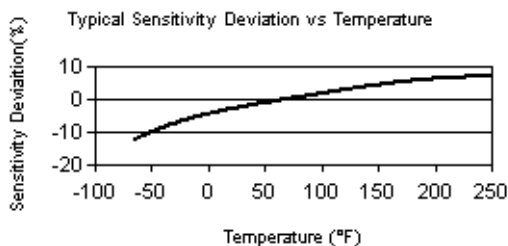
Model 081A40 Mounting Stud (1)  
 Model ICS-2 NIST-traceable single-point amplitude response calibration at 6000 cpm (100 Hz) for each axis (1)

Entered: ND	Engineer: GD	Sales: JL	Approved: BAM	Spec Number:
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All specifications are at room temperature unless otherwise specified.  
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