

	ENGLISH	SI	
Performance			
Sensitivity (±20 %)	100 mV/g	10.2 mV/(m/s ²)	[2]
Measurement Range	±50 g	± 490 m/s ²	
Frequency Range (±3 dB)	16 to 600000 cpm	0.27 to 10000 Hz	[3]
Resonant Frequency	960 kcpm	16 kHz	[1]
Broadband Resolution (1 to 10000 Hz)	50 µg	491 µm/s ²	[1]
Non-Linearity	±1 %	±1 %	[4]
Transverse Sensitivity	≤7 %	≤7 %	
Environmental			
Overload Limit (Shock)	5000 g pk	49050 m/s ² pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Enclosure Rating	IP68	IP68	
Electrical			
Settling Time (within 1% of bias)	≤4.0 sec	≤4.0 sec	
Discharge Time Constant	≥0.6 sec	≥0.6 sec	
Excitation Voltage	18 to 28 VDC	18 to 28 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	<150 ohms	<150 ohms	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Spectral Noise (10 Hz)	3.2 µg/√Hz	31.0 (µm/s ²)/√Hz	[1]
Spectral Noise (100 Hz)	1.0 µg/√Hz	9.81 (µm/s ²)/√Hz	[1]
Spectral Noise (1 kHz)	0.7 µg/√Hz	6.94 (µm/s ²)/√Hz	[1]
Electrical Isolation (Case)	>10 ⁸ ohms	>10 ⁸ ohms	
Physical			
Size (Hex x Height)	7/8 in x 1.94 in	22 mm x 49.3 mm	
Weight	2.8 oz	80 gm	
Mounting Thread	1/4-28 Female	Not Applicable	[5]
Mounting Torque	2 to 5 ft-lb	2.7 to 6.8 N-m	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	2-Pin MIL-C-5015	2-Pin MIL-C-5015	
Electrical Connection Position	Top	Top	

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) replaces Model 081A40

TO - Temperature Output

Temperature Output Range	+36 to +250 °F	+2 to +121 °C
Temperature Scale Factor	5.56 mV/°F + 32	+10 mV/°C
Electrical Connector	3-Pin	3-Pin
Electrical Connections (Pin A)	Acceleration Output	Acceleration Output
Electrical Connections (Pin B)	Ground	Ground
Electrical Connections (Pin C)	Temperature Output	Temperature Output

NOTES:

[1] Typical.
 [2] Conversion Factor 1g = 9.81 m/s².
 [3] The high frequency tolerance is accurate within ±10% of the specified frequency.
 [4] Zero-based, least-squares, straight line method.
 [5] 1/4-28 has no equivalent in S.I. units.
 [6] See PCB Declaration of Conformance PS023 for details.

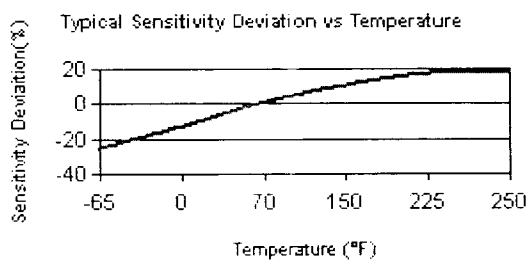
SUPPLIED ACCESSORIES:

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

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All specifications are at room temperature unless otherwise specified.
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