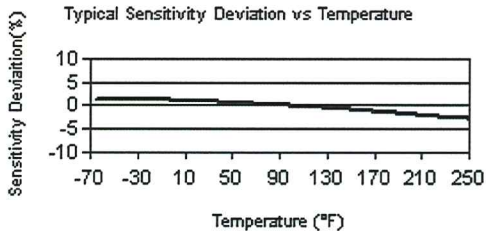


	ENGLISH	SI	
Performance			
Sensitivity(± 10 %)	10 mV/g	1.02 mV/(m/s ²)	
Measurement Range	± 500 g pk	± 4905 m/s ² pk	
Frequency Range(± 5 %)	1 to 10,000 Hz	1 to 10,000 Hz	
Frequency Range(± 10 %)	0.7 to 20,000 Hz	0.7 to 20,000 Hz	
Frequency Range(± 3 dB)	0.35 to 30,000 Hz	0.35 to 30,000 Hz	
Resonant Frequency	≥ 70 kHz	≥ 70 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.005 g rms	0.05 m/s ² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	[3]
Environmental			
Overload Limit(Shock)	± 10,000 g pk	± 98,100 m/s ² pk	
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	≤ 0.002 g/µε	≤ 0.02 (m/s ²)/µε	[1]
Electrical			
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)	<5 sec	<5 sec	
Spectral Noise(1 Hz)	2800 µg/√Hz	27,468 (µm/sec ²)/√Hz	[1]
Spectral Noise(10 Hz)	700 µg/√Hz	6867 (µm/sec ²)/√Hz	[1]
Spectral Noise(100 Hz)	180 µg/√Hz	1766 (µm/sec ²)/√Hz	[1]
Spectral Noise(1 kHz)	64 µg/√Hz	628 (µm/sec ²)/√Hz	[1]
Physical			
Sensing Element	Quartz	Quartz	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Welded Hermetic	Welded Hermetic	
Size (Hex x Height)	9/32 in x 0.68 in	9/32 in x 17.3 mm	
Weight	0.05 oz	1.5 gm	[1]
Electrical Connector	5-44 Coaxial	5-44 Coaxial	
Electrical Connection Position	Top	Top	
Mounting Thread	5-40 Male	5-40 Male	
Mounting Torque	8 to 12 in-lb	90 to 135 N-cm	

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.		
A - Adhesive Mount		
Supplied Accessory : Model 080A90 Quick Bonding Gel (1) replaces Model 080A15		
B - Low bias electronics		
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	± 300 g pk	± 2943 m/s ² pk
J - Ground Isolated		
Frequency Range(± 5 %)	1 to 8000 Hz	1 to 8000 Hz
Frequency Range(± 10 %)	0.7 to 15,000 Hz	0.7 to 15,000 Hz
Resonant Frequency	≥ 56 kHz	≥ 56 kHz
Electrical Isolation(Base)	≥ 10 ⁸ ohm	≥ 10 ⁸ ohm
Size - Hex x Height	3/8 in x 0.76 in	3/8 in x 19.3 mm
Weight	0.09 oz	2.7 gm
M - Metric Mount		
Mounting Thread	M3 x 0.50 Male	M3 x 0.50 Male
Supplied Accessory : Model M080A15 Adhesive Mounting Base (1) replaces Model 080A15		
Q - Extended discharge time constant		
Frequency Range(± 5 %)	0.15 to 10,000 Hz	0.15 to 10,000 Hz
Frequency Range(± 10 %)	0.1 to 20,000 Hz	0.1 to 20,000 Hz
Discharge Time Constant	≥ 5 sec	≥ 5 sec
Settling Time(within 10% of bias)	<45 sec	<45 sec
Supplied Accessory : Model ACS-97 Single axis, low frequency phase and amplitude response cal from 1 to 10 Hz (1)		
W - Water Resistant Cable		
Electrical Connector	Sealed Integral Cable	Sealed Integral Cable
Electrical Connection Position	Top	Top



NOTES:
 [1] Typical.
 [2] Zero-based, least-squares, straight line method.
 [3] Transverse sensitivity is typically ≤ 3%.
 [4] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:
 Model 080A109 Petro Wax (1)
 Model 080A15 Adhesive Mounting Base (1)
 Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)

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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Entered: JCMW	Engineer: BAM	Sales: WDC	Approved: EB	Spec Number:
Date: 3/24/11	Date: 3/24/11	Date: 3/24/11	Date: 3/24/11	353-2160-80