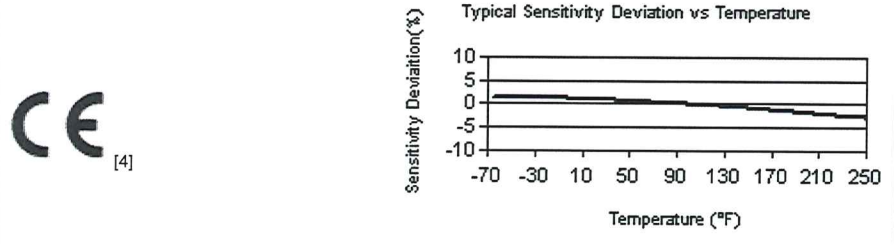


	ENGLISH	SI	
Performance			
Sensitivity(± 10 %)	10 mV/g	1.02 mV/(m/s ²)	
Measurement Range	± 500 g pk	± 4905 m/s ² pk	
Frequency Range(± 5 %)	1 to 10,000 Hz	1 to 10,000 Hz	
Frequency Range(± 10 %)	0.7 to 18,000 Hz	0.7 to 18,000 Hz	
Frequency Range(± 3 dB)	0.35 to 30,000 Hz	0.35 to 30,000 Hz	
Resonant 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	20 to 30 VDC	20 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)	0.31 in x 0.43 in	7.9 mm x 10.9 mm	
Weight	0.07 oz	2.0 gm	[1]
Electrical Connector	5-44 Coaxial	5-44 Coaxial	
Electrical Connection Position	Side	Side	
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)		
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	0.37 in x 0.57 in	9.5 mm x 14.5 mm
Weight	0.11 oz	3.2 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 18,000 Hz	0.1 to 18,000 Hz
Discharge Time Constant	≥ 5 sec	≥ 5 sec
Settling Time(within 10% of bias)	≤ 45 sec	≤ 45 sec
Supplied Accessory : Model ACS-4 Single axis, low frequency phase and amplitude response cal from 0.5 to 10 Hz (1)		
W - Water Resistant Cable		
Electrical Connector	Sealed Integral Cable	Sealed Integral Cable
Electrical Connection Position	Side	Side



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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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)

Entered: <i>YRM</i>	Engineer: <i>BAM</i>	Sales: <i>WDC</i>	Approved: <i>EB</i>	Spec Number:
Date: <i>3/24/11</i>	Date: <i>3/24/11</i>	Date: <i>3/24/11</i>	Date: <i>3/24/11</i>	353-2150-80

