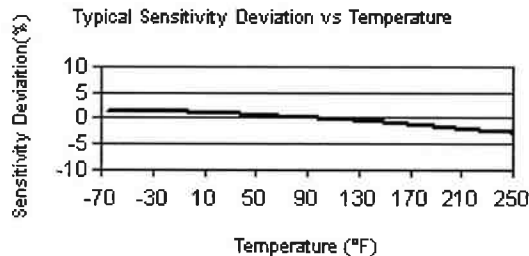


Performance	ENGLISH	SI	
Sensitivity(± 20 %)	2 mV/g	0.204 mV/(m/s <sup>2</sup> )	
Measurement Range	± 2500 g pk	± 24,525 m/s <sup>2</sup> pk	
Frequency Range(± 5 %)	1 to 10,000 Hz	1 to 10,000 Hz	
Frequency Range(± 10 %)	0.7 to 20,000 Hz	0.7 to 20,000 Hz	
Frequency Range(± 3 dB)	0.35 to 30,000 Hz	0.35 to 30,000 Hz	
Electrical Filter Corner Frequency	30 kHz	30 kHz	[1]
Electrical Filter Roll-off	6 dB/octave	6 dB/octave	[1]
Resonant Frequency	≥ 70 kHz	≥ 70 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.05 g rms	0.5 m/s <sup>2</sup> rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	[3]
<b>Environmental</b>			
Overload Limit(Shock)	± 10,000 g pk	± 98,100 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	≤ 0.007 g/µε	≤ 0.07 (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 14 VDC	8 to 14 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)	6500 µg/√Hz	63,765 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(10 Hz)	2000 µg/√Hz	19,620 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(100 Hz)	600 µg/√Hz	5890 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(1 kHz)	60 µg/√Hz	590 (µm/sec <sup>2</sup> )/√Hz	[1]
<b>Physical</b>			
Sensing Element	Quartz	Quartz	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Hex x Height)	9/32 in x 0.59 in	9/32 in x 15.0 mm	
Weight	0.06 oz	1.7 gm	[1]
Electrical Connector	Solder Pins	Solder Pins	
Electrical Connection Position	Top	Top	
Cable Termination	10-32 Coaxial Plug	10-32 Coaxial Plug	
Cable Length	10 ft	3.0 m	
Cable Type	031 Twisted Pair	031 Twisted Pair	
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.		
<b>A - Adhesive Mount</b> Supplied Accessory : Model 080A90 Quick Bonding Gel (1) replaces Model 080A15		
<b>J - Ground Isolated</b>		
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 <sup>8</sup> ohm	≥ 10 <sup>8</sup> ohm
Size - Hex x Height	3/8 in x 0.77 in	3/8 in x 19.6 mm
Weight	0.10 oz	2.9 gm
<b>M - Metric Mount</b>		
Mounting Thread	M3 x 0.50 Male	M3 x 0.50 Male
Supplied Accessory : Model M080A15 Adhesive Mounting Base (1) replaces Model 080A15		
<b>W - Water Resistant Cable</b>		
Temperature Range(Operating)	-20 to +220 °F	-29 to +104 °C
Electrical Connector	Sealed Integral Cable	Sealed Integral Cable
Electrical Connection Position	Top	Top
Cable Length	10 ft	3
Cable Type	018 Coaxial	018 Coaxial

**NOTES:**  
 [1] Typical.  
 [2] Zero-based, least-squares, straight line method.  
 [3] Transverse sensitivity is typically ≤ 3%.

**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: ECB	Engineer: BAM	Sales: WDC	Approved: JJB	Spec Number:
Date: 12/16/09	Date: 12/16/09	Date: 12/10/09	Date: 12/10/09	31536

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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