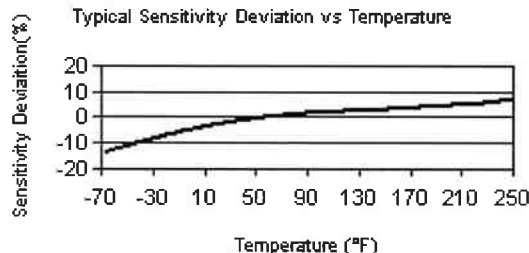


	ENGLISH	SI	
Performance			
Sensitivity(± 10 %)	100 mV/g	10.2 mV/(m/s ²)	
Measurement Range	± 50 g pk	± 491 m/s ² pk	
Frequency Range(± 5 %)	0.5 to 10,000 Hz	0.5 to 10,000 Hz	
Frequency Range(± 10 %)	0.3 to 12,000 Hz	0.3 to 12,000 Hz	
Frequency Range(± 3 dB)	0.2 to 20,000 Hz	0.2 to 20,000 Hz	
Resonant Frequency	≥ 35 kHz	≥ 35 kHz	
Phase Response(± 5 °)(at 70°F [21°C])	2 to 6000 Hz	2 to 6000 Hz	
Broadband Resolution(1 to 10,000 Hz)	0.00016 g rms	0.0015 m/s ² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[3]
Transverse Sensitivity	≤ 5 %	≤ 5 %	[4]
Environmental			
Overload Limit(Shock)	± 5000 g pk	± 49,050 m/s ² pk	
Temperature Range(Operating)	-65 to +200 °F	-54 to +93 °C	[2]
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	<0.005 g/με	<0.05 (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	≤ 300 ohm	≤ 300 ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Discharge Time Constant	0.8 to 2.4 sec	0.8 to 2.4 sec	
Settling Time(within 10% of bias)	<10 sec	<10 sec	
Spectral Noise(1 Hz)	60 μg/√Hz	588 (μm/sec ²)/√Hz	[1]
Spectral Noise(10 Hz)	16 μg/√Hz	157 (μm/sec ²)/√Hz	[1]
Spectral Noise(100 Hz)	5 μg/√Hz	49 (μm/sec ²)/√Hz	[1]
Spectral Noise(1 kHz)	1.5 μg/√Hz	14.7 (μm/sec ²)/√Hz	[1]
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Welded Hermetic	Welded Hermetic	
Size (Hex x Height)	9/32 in x 0.58 in	9/32 in x 14.7 mm	
Weight	0.070 oz	2.0 gm	[1]
Electrical Connector	10-32 Coaxial Plug	10-32 Coaxial Plug	
Electrical Connection Position	Top	Top	
Cable Length	10 ft	3 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.

A - Adhesive Mount [5]
Supplied Accessory : Model 080A90 Quick Bonding Gel (1) replaces Model 080A15

HT - High temperature, extends normal operation temperatures

Frequency Range(5 %)	5 to 10,000 Hz	5 to 10,000 Hz
Frequency Range(10 %)	3 to 12,000 Hz	3 to 12,000 Hz
Frequency Range(3 dB)	2 to 20,000 Hz	2 to 20,000 Hz
Broadband Resolution(1 to 10,000 Hz)	0.0002 g rms	0.002 m/s ² rms
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C
Discharge Time Constant	0.08 to 0.24 sec	0.08 to 0.24 sec
Spectral Noise(1 Hz)	75 μg/√Hz	736 (μm/sec ²)/√Hz
Spectral Noise(10 Hz)	25 μg/√Hz	245 (μm/sec ²)/√Hz

J - Ground Isolated

Frequency Range(5 %)	0.5 to 8000 Hz	0.5 to 8000 Hz
Frequency Range(10 %)	0.3 to 10,000 Hz	0.3 to 10,000 Hz
Frequency Range(3 dB)	0.2 to 16,000 Hz	0.2 to 16,000 Hz
Resonant Frequency	≥ 30 kHz	≥ 30 kHz
Electrical Isolation(Base)	>10 ⁸ ohm	>10 ⁸ ohm
Size - Hex x Height	3/8 in x 0.64 in	3/8 in x 16.3 mm
Weight	0.1 oz	2.8 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

W - Water Resistant Cable

Electrical Connector	Sealed Integral Cable	Sealed Integral Cable
Electrical Connection Position	Top	Top
Cable Type	018 Coaxial	018 Coaxial

NOTES:
[1] Typical.
[2] 200°F to 250°F data valid with HT option only.
[3] Zero-based, least-squares, straight line method.
[4] Transverse sensitivity is typically ≤ 3%.
[5] Mounting stud removed, adhesive mounting base not required.

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).

Entered: <i>FGB</i>	Engineer: <i>BAM</i>	Sales: <i>WDC</i>	Approved: <i>JJB</i>	Spec Number:
Date: <i>12/10/09</i>	Date: <i>12/10/09</i>	Date: <i>12/10/09</i>	Date: <i>12/10/09</i>	8338

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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