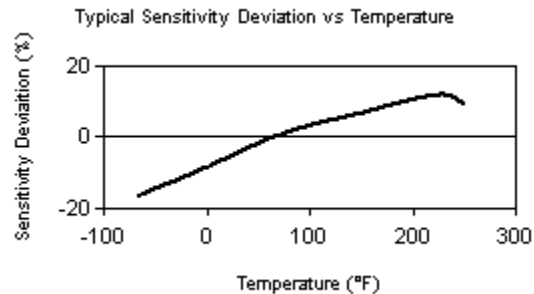


	ENGLISH	SI	
<b>Performance</b>			
Sensitivity(± 15 %)	100 mV/g	10.2 mV/(m/s <sup>2</sup> )	[2]
Measurement Range	± 50 g	± 490 m/s <sup>2</sup>	
Frequency Range(± 3 dB)	30 to 600,000 cpm	0.5 to 10,000 Hz	
Resonant Frequency	1080 kcpm	18 kHz	[1]
Broadband Resolution(1 to 10,000 Hz)	350 µg	3434 µm/sec <sup>2</sup>	[1]
Non-Linearity	± 1 %	± 1 %	[3]
Transverse Sensitivity	≤ 7 %	≤ 7 %	
<b>Environmental</b>			
Overload Limit(Shock)	5000 g pk	49,050 m/s <sup>2</sup> pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[1]
Enclosure Rating	IP68	IP68	
<b>Electrical</b>			
Settling Time(within 1% of bias)	≤ 2.0 sec	≤ 2.0 sec	
Discharge Time Constant	≥ 0.3 sec	≥ 0.3 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 Ohm	<150 Ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Spectral Noise(10 Hz)	8 µg/√Hz	78.5 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(100 Hz)	5 µg/√Hz	49.1 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(1 kHz)	4 µg/√Hz	39.2 (µm/sec <sup>2</sup> )/√Hz	[1]
Electrical Isolation(Case)	>10 <sup>8</sup> Ohm	>10 <sup>8</sup> Ohm	
<b>Physical</b>			
Size (Hex x Height)	7/8 in x 1.23 in	22 mm x 31.2 mm	
Weight	3.7 oz	105 gm	
Mounting	Stud	Stud	
Mounting Thread	1/4-28 Male	1/4-28 Male	
Mounting Torque(Stud)	3 to 4 ft-lb	4.1 to 5.4 Nm	[4][5]
Mounting Torque(hex nut)	2 to 3 ft-lb	2.7 to 4.1 Nm	
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	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.  
 ICP® is a registered trademark of PCB Group, Inc.

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>EX</b> - Hazardous Area Approval- contact factory for specific approvals		
Hazardous Area Approval	Ex ia IIC T4, AExia IIC, T4	Ex ia IIC T4, AExia IIC, T4
Hazardous Area Approval	EEx nL IIC T4, -40°C≤Tas≤121° C, II 1 G	EEx nL IIC T4, -40°C≤Tas≤121° C, II 1 G
Hazardous Area Approval	CI I, Div I, Groups A, B, C, D; CI Cl I, Div I, Groups A, B, C, D; II, Div I, Groups E, F, G; CI III, Div I	CI I, Div I, Groups A, B, C, D; II, Div I, Groups E, F, G; CI III, Div I
Hazardous Area Approval	CI I, Div 2, Groups A, B, C, D; ExnL IIC T4, AExnA IIC T4	CI I, Div 2, Groups A, B, C, D; ExnL IIC T4, AExnA IIC T4
Hazardous Area Approval	EEx nL IIC T4, -40°C≤Tas≤121° C, II 3 G	EEx nL IIC T4, -40°C≤Tas≤121° C, II 3 G
<b>M</b> - Metric Mount		
Supplied Accessory : Model M080A163A (1) replaces Model 080A162		
<b>TO</b> - 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 MIL-C-5015	3-Pin MIL-C-5015
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/s<sup>2</sup>.  
 [3]Zero-based, least-squares, straight line method.  
 [4]1/8" hex Allen key required for English version, 3mm hex Allen key required for metric version.  
 [5]Stud torque must exceed sensor hex nut torque to ensure proper dismantling.  
 [6]See PCB Declaration of Conformance PS023 for details.

**SUPPLIED ACCESSORIES:**  
 Model 080A162 Mounting Stud (1)  
 Model ICS-2 NIST-traceable single-axis single-point amplitude response calibration at 6000 cpm (100 Hz) (1)

Entered: AP	Engineer: DK	Sales: EGY	Approved: BAM	Spec Number:
Date: 10/10/2014	Date: 10/10/2014	Date: 10/10/2014	Date: 10/10/2014	<b>13832</b>

**IMI SENSORS**  
 A PCB PIEZOTRONICS DIV.  
 3425 Walden Avenue, Depew, NY 14043

**Phone: 800-959-4464**  
**Fax: 716-684-3823**  
**E-Mail: imi@pcb.com**