

Model Number 622B00		INDUSTRIAL ICP® ACCELEROMETER		Revision: B ECN #: 56599																	
Performance		ENGLISH		SI																	
Sensitivity(± 5 %)		10 mV/g		1.02 mV/(m/s ²) [1]																	
Measurement Range		± 500 g		± 4,900 m/s ²																	
Frequency Range(± 5 %)		35 to 360,000 cpm		0.58 to 6,000 Hz [2]																	
Frequency Range(± 10 %)		25 to 600,000 cpm		0.42 to 10,000 Hz [2]																	
Frequency Range(± 3 dB)		12 to 900,000 cpm		0.2 to 15,000 Hz [2]																	
Resonant Frequency		1,980 kcpm		33 kHz [3]																	
Broadband Resolution(1 to 10,000 Hz)		330 µg		3,234 µm/sec ² [3]																	
Non-Linearity		± 1 %		± 1 % [4]																	
Transverse Sensitivity		≤ 5 %		≤ 5 %																	
Environmental																					
Overload Limit(Shock)		5,000 g pk		49,050 m/s ² pk																	
Temperature Range		-65 to +250 °F		-54 to +121 °C																	
Temperature Response		See Graph		See Graph [3]																	
Enclosure Rating		IP68		IP68																	
Electrical																					
Settling Time(within 1% of bias)		≤ 8 sec		≤ 8 sec																	
Discharge Time Constant		≥ 0.8 sec		≥ 0.8 sec																	
Excitation Voltage		18 to 28 VDC		18 to 28 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																	
Spectral Noise(10 Hz)		12 µg/√Hz		118 (µm/sec ²)/√Hz [3]																	
Spectral Noise(100 Hz)		12 µg/√Hz		118 (µm/sec ²)/√Hz [3]																	
Spectral Noise(1 kHz)		3.2 µg/√Hz		31.4 (µm/sec ²)/√Hz [3]																	
Electrical Protection		RFI/ESD		RFI/ESD																	
Electrical Isolation		> 10 ⁸ Ohm		> 10 ⁸ Ohm																	
Physical																					
Size (Hex x Height)		7/8 in x 2.06 in		22 mm x 52.3 mm																	
Weight		3.3 oz		94 gm [3]																	
Mounting Thread		1/4-28 Female		No Metric Equivalent [5]																	
Mounting Torque		2 to 5 ft-lb		2.7 to 6.8 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		Top		Top																	
Typical Sensitivity Deviation vs Temperature <table border="1"><caption>Typical Sensitivity Deviation vs Temperature Data</caption><thead><tr><th>Temperature (°F)</th><th>Sensitivity Deviation (%)</th></tr></thead><tbody><tr><td>-65</td><td>-10</td></tr><tr><td>-15</td><td>-5</td></tr><tr><td>35</td><td>-2</td></tr><tr><td>85</td><td>-1</td></tr><tr><td>135</td><td>-0.5</td></tr><tr><td>185</td><td>-0.2</td></tr><tr><td>235</td><td>-0.1</td></tr></tbody></table>						Temperature (°F)	Sensitivity Deviation (%)	-65	-10	-15	-5	35	-2	85	-1	135	-0.5	185	-0.2	235	-0.1
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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. EX - Hazardous Area Approval- contact factory for specific approvals M - Metric Mount Supplied Accessory: Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1) TO - Temperature Output Temperature Output Range +36 to +325 °F +2 to +163 °C Temperature Scale Factor 5.56 mV/°F + 32 +10 mV/°C Electrical Connector 5-Pin, M12 5-Pin, M12 Electrical Connections(Pin A) Acceleration Output Acceleration Output Electrical Connections(Pin B) Ground Ground Electrical Connections(Pin C) Temperature Output Temperature Output																					
NOTES: [1]Conversion Factor 1g = 9.81 m/s². [2]The high frequency tolerance is accurate within ±10% of the specified frequency. [3]Typical. [4]Zero-based, least-squares, straight line method. [5]1/4-28 has no equivalent in S.I. units. [6]See PCB Declaration of Conformance PS023 or PS061 for details. [7]See Model's "Instructions For Use" (IFU) for North American Conformity and Certification Statements.																					
SUPPLIED ACCESSORIES: Model 081A40 Mounting Stud (1) Model ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency (1)																					
Entered: ND		Engineer: gs		Sales: JL																	
Date: 05/20/2026		Date: 05/20/2026		Date: 05/20/2026																	
				Approved: BAM																	
				Spec Number:																	
				70420																	
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																	

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.

EX - Hazardous Area Approval- contact factory for specific approvals

M - Metric Mount
Supplied Accessory: Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1)

TO - Temperature Output
Temperature Output Range
Temperature Scale Factor
Electrical Connector
Electrical Connections(Pin A)
Electrical Connections(Pin B)
Electrical Connections(Pin C)

+36 to +325 °F
5.56 mV/°F ± 32
5-Pin, M12
Acceleration Output
Ground
Temperature Output

+2 to +163 °C
+10 mV/°C
5-Pin, M12
Acceleration Output
Ground
Temperature Output