

Model Number 608A10		INDUSTRIAL ICP® ACCELEROMETER		Revision: B ECN #: 56388	
Performance		ENGLISH		SI	
Sensitivity(± 20 %)		10 mV/g		1.02 mV/(m/s ²) [1]	
Measurement Range		± 500 g		± 4,905 m/s ²	
Frequency Range(± 3 dB)		30 to 600,000 cpm		0.5 to 10,000 Hz	
Resonant Frequency		1,320 kcpm		22 kHz [2]	
Broadband Resolution(1 to 10,000 Hz)		2,000 µg		19,620 µm/sec ² [2]	
Non-Linearity		± 1 %		± 1 % [3]	
Transverse Sensitivity		≤ 7 %		≤ 7 %	
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 [2]	
Enclosure Rating		IP68		IP68	
Electrical					
Settling Time(within 1% of bias)		≤ 3.0 sec		≤ 3.0 sec	
Discharge Time Constant		≥ 0.4 sec		≥ 0.4 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)		85 µg/√Hz		834 (µm/sec ²)/√Hz [2]	
Spectral Noise(100 Hz)		20 µg/√Hz		196 (µm/sec ²)/√Hz [2]	
Spectral Noise(1 kHz)		5 µg/√Hz		49.1 (µm/sec ²)/√Hz [2]	
Electrical Isolation(Case)		> 10 ⁸ Ohm		> 10 ⁸ Ohm	
Physical					
Size (Hex x Height)		9/16 in x 2.5 in		14 mm x 64 mm	
Weight(with cable)		3.5 oz		99.3 gm [2]	
Mounting		Stud		Stud	
Mounting Thread		1/4-28 Female		1/4-28 Female [4]	
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		Molded		Molded	
Electrical Connector		Molded Integral Cable		Molded Integral Cable	
Electrical Connection Position		Top		Top	
Cable Length		10 ft		3 m	
Cable Type		Polyurethane		Polyurethane [5]	

CE

UK

CA

[6]

Typical Sensitivity Deviation vs Temperature

Sensitivity Deviation (%)

-20

0

20

-100

0

100

200

300

Temperature (°F)

Ex

ETL

Intertek

[7]

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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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) replaces Model 081A40				

NOTES:

[1]Conversion Factor 1g = 9.81 m/s².

[2]Typical.

[3]Zero-based, least-squares, straight line method.

[4]1/4-28 has no equivalent in S.I. units.

[5]Twisted shielded pair.

[6]See PCB Declaration of Conformance PS023 or PS060 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-2 NIST-traceable single-point amplitude response calibration at 6000 cpm (100 Hz) for each axis (1)				

Entered: ND	Engineer: NJF	Sales: JL	Approved: NJF	Spec Number:
Date: 04/20/2026	Date: 04/20/2026	Date: 04/20/2026	Date: 04/20/2026	43757

IMI SENSORS

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