

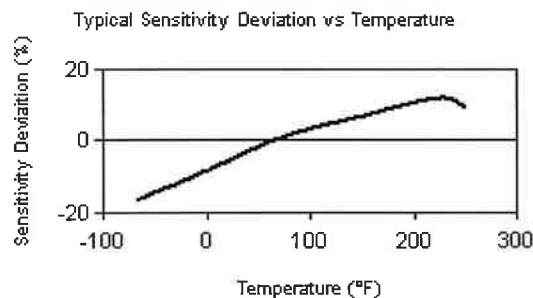
Model Number

608A10

INDUSTRIAL ICP® ACCELEROMETER

Revision: NR
ECN #:

	ENGLISH	SI	
Performance			
Sensitivity(± 20 %)	10 mV/g	1.02 mV/(m/s ²)	[2]
Measurement Range	± 500 g	± 4905 m/s ²	
Frequency Range(± 3 dB)	30 to 600,000 cpm	0.5 to 10,000 Hz	
Resonant Frequency	1320 kcpm	22 kHz	[1]
Broadband Resolution(1 to 10,000 Hz)	2000 µg	19,620 µm/sec ²	[1]
Non-Linearity	± 1 %	± 1 %	[3]
Transverse Sensitivity	≤ 7 %	≤ 7 %	
Environmental			
Overload Limit(Shock)	5000 g pk	49,050 m/s ² pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[1]
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	[1]
Spectral Noise(100 Hz)	20 µg/√Hz	196 (µm/sec ²)/√Hz	[1]
Spectral Noise(1 kHz)	5 µg/√Hz	49.1 (µm/sec ²)/√Hz	[1]
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	[1]
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 N-m	
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]



[6]

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.

M - Metric Mount

Supplied Accessory : Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1) replaces Model 081A40

NOTES:

- [1] Typical.
[2] Conversion Factor 1g = 9.81 m/s².
[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.

SUPPLIED ACCESSORIES:

Model 081A40 Mounting Stud (1)
Model ICS-2 NIST-traceable single-axis single-point amplitude response calibration at 6000 cpm (100 Hz) (1)

Entered: <i>BLS</i>	Engineer: <i>HJN</i>	Sales: <i>JJ</i>	Approved: <i>EB</i>	Spec Number:
Date: <i>8-5-09</i>	Date: <i>8-5-09</i>	Date: <i>8-5-09</i>	Date: <i>8-5-09</i>	43757

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