

Model Number 608A10		INDUSTRIAL ICP® ACCELEROMETER		Revision: A ECN #: 47268	
Performance		ENGLISH	SI	OPTIONAL VERSIONS	
Sensitivity(± 20 %)		10 mV/g	1.02 mV/(m/s²)	[2]	
Measurement Range		± 500 g	± 4905 m/s²		
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/sec²	[1]	
Non-Linearity		± 1 %	± 1 %	[3]	
Transverse Sensitivity		≤ 7 %	≤ 7 %		
Environmental					
Overload Limit(Shock)		5000 g pk	49,050 m/s² 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/sec²)/√Hz	[1]	
Spectral Noise(100 Hz)		20 µg/√Hz	196 (µm/sec²)/√Hz	[1]	
Spectral Noise(1 kHz)		5 µg/√Hz	49.1 (µm/sec²)/√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 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]	
Typical Sensitivity Deviation vs Temperature Sensitivity Deviation (%) Temperature (°F)					
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-point amplitude response calibration at 6000 cpm (100 Hz) for each axis (1)					
Entered: LK		Engineer: gs		Sales: MC	
Approved: BAM		Spec Number:			
Date: 10/6/2017		Date: 10/6/2017		Date: 10/6/2017	
Date: 10/6/2017		Date: 10/6/2017		43757	
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