

Model Number <b>607A12</b>	<b>INDUSTRIAL ICP® ACCELEROMETER</b>			Revision: C ECN #: 42246
<b>Performance</b>	<b>ENGLISH</b>	<b>SI</b>		<b>OPTIONAL VERSIONS</b> 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  <b>M</b> - Metric Mount Supplied Accessory : Model M080A159A Mounting stud, 1/2-20 to M6 x 1 (1) replaces Model 080A156
Sensitivity(± 20 %)	500 mV/g	51.0 mV/(m/s <sup>2</sup> )	[2]	
Measurement Range	± 10 g	± 98 m/s <sup>2</sup>		
Frequency Range(± 3 dB)	30 to 180,000 cpm	0.5 to 3000 Hz	[3]	
Resonant Frequency	1500 kcpm	25 kHz	[1]	
Broadband Resolution(1 to 10,000 Hz)	300 µg	2943 µm/sec <sup>2</sup>	[1]	
Non-Linearity	± 1 %	± 1 %	[4]	
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 +200 °F	-54 to +93 °C		
Temperature Response	See Graph	See Graph	[1]	
Enclosure Rating	IP68	IP68		
<b>Electrical</b>				
Settling Time(within 1% of bias)	≤ 5.0 sec	≤ 5.0 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	<500 Ohm	<500 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)	3 µg/√Hz	29.4 (µm/sec <sup>2</sup> )/√Hz	[1]	
Spectral Noise(1 kHz)	3 µg/√Hz	29.4 (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)	9/16 in x 0.97 in	14 mm x 24.6 mm		
Weight	1.1 oz	31 gm	[1]	
Mounting	Stud	Stud		
Mounting Torque	7 to 8 ft-lb	9.5 to 10.8 Nm	[5][6]	
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	Molded Integral Cable	Molded Integral Cable		
Electrical Connection Position	Side	Side		
Cable Termination	Blunt cut	Blunt cut		
Cable Length	10 ft	3.0 m		
Cable Type	Polyurethane	Polyurethane	[7]	
<i>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.</i>				
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<b>NOTES:</b> [1] Typical. [2] Conversion Factor 1g = 9.81 m/s <sup>2</sup> . [3] The high frequency tolerance is accurate within ±10% of the specified frequency. [4] Zero-based, least-squares, straight line method. [5] 1/8" hex Allen key required for English version, 3mm hex Allen key required for metric version. [6] Stud torque must exceed sensor hex nut torque to ensure proper dismantling. [7] Twisted shielded pair. [8] See PCB Declaration of Conformance PS023 for details.				
<b>SUPPLIED ACCESSORIES:</b> Model 080A156 Mounting Base (1) Model ICS-2 NIST-traceable single-axis single-point amplitude response calibration at 6000 cpm (100 Hz) (1)				
Entered: AP	Engineer: jg	Sales: BRS	Approved: BAM	Spec Number:
Date: 11/12/2013	Date: 11/12/2013	Date: 11/12/2013	Date: 11/12/2013	<b>45591</b>
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