

Model Number <b>635A01</b>	<b>INDUSTRIAL ICP® ACCELEROMETER</b>		Revision: A ECN #: 14823	
<b>Performance</b> Sensitivity (±5 %) Measurement Range Frequency Range (±10 %) Frequency Range (±3 dB) Resonant Frequency Broadband Resolution (1 to 10000 Hz) Non-Linearity Transverse Sensitivity	<b>ENGLISH</b> 100 mV/g ±50 g 68 to 720000 cpm 32 to 900000 cpm 1800 kcpm 240 µg ±1 % ≤5 %	<b>SI</b> 10.2 mV/(m/s <sup>2</sup> ) ±490 m/s <sup>2</sup> 1.13 to 12000 Hz 0.53 to 15000 Hz 30 kHz 2354 µm/s <sup>2</sup> ±1 % ≤5 %	<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>Environmental</b> Overload Limit (Shock) Temperature Range Temperature Response	5000 g pk -65 to +250 °F See Graph	49050 m/s <sup>2</sup> pk -54 to +121 °C See Graph	<b>NOTES:</b> [1] Typical. [2] Conversion Factor 1g = 9.81 m/s <sup>2</sup> . [3] Zero-based, least-squares, straight line method. [4] 1/4-28 has no equivalent in S.I. units. [5] See PCB Declaration of Conformance PS023 for details.	
<b>Electrical</b> Settling Time (within 1% of bias) Discharge Time Constant Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage Spectral Noise (10 Hz) Spectral Noise (100 Hz) Spectral Noise (1 kHz) Electrical Isolation	≤2 sec ≥0.3 sec 18 to 28 VDC 2 to 20 mA <150 ohms 8 to 12 VDC 8 µg/√Hz 2 µg/√Hz 1 µg/√Hz >10 <sup>8</sup> ohms	≤2 sec ≥0.3 sec 18 to 28 VDC 2 to 20 mA <150 ohms 8 to 12 VDC 78.5 (µm/s <sup>2</sup> )/√Hz 19.6 (µm/s <sup>2</sup> )/√Hz 9.81 (µm/s <sup>2</sup> )/√Hz >10 <sup>8</sup> ohms		
<b>Physical</b> Size (Diameter x Height) Weight Mounting Mounting Thread Mounting Torque Sensing Element Sensing Geometry Housing Material Sealing Electrical Connector Electrical Connection Position	1.13 in x .82 in 3 oz Stud 1/4-28 Male 2 to 5 ft-lb Ceramic Shear Stainless Steel Welded Hermetic 2-Pin MIL-C-5015 Side	28.7 mm x 20.8 mm 86 gm Stud Not Applicable 2.7 to 6.8 N-m Ceramic Shear Stainless Steel Welded Hermetic 2-Pin MIL-C-5015 Side		
	<b>Typical Sensitivity Deviation vs Temperature</b> 			
<b>SUPPLIED ACCESSORIES:</b> Model 081A97 Thru bolt 1/4-28 (1) Model ICS-8 NIST-traceable single-axis amplitude response calibration from 600 cpm (10Hz) to upper 10% frequency. (1)				
<b>OPTIONAL ACCESSORIES:</b> Model M081A97 Captive mounting bolt M6 x 1 (1)				
Entered: <i>YMA</i>	Engineer: <i>MR2</i>	Sales: <i>BL7</i>	Approved: <i>N.F</i>	Spec Number:
Date: <i>3/12/03</i>	Date: <i>3/12/03</i>	Date: <i>3/26/03</i>	Date: <i>3/26/03</i>	16448
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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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