

Model Number 635A01	INDUSTRIAL ICP[®] ACCELEROMETER		Revision: A ECN #: 14823	
Performance Sensitivity (±5 %) Measurement Range Frequency Range (±10 %) Frequency Range (±3 dB) Resonant Frequency Broadband Resolution (1 to 10000 Hz) Non-Linearity Transverse Sensitivity	ENGLISH 100 mV/g ±50 g 68 to 720000 cpm 32 to 900000 cpm 1800 kcpm 240 µg ±1 % ≤5 %	SI 10.2 mV/(m/s ²) ±490 m/s ² 1.13 to 12000 Hz 0.53 to 15000 Hz 30 kHz 2354 µm/s ² ±1 % ≤5 %	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.	
Environmental Overload Limit (Shock) Temperature Range Temperature Response	5000 g pk -65 to +250 °F See Graph	49050 m/s ² pk -54 to +121 °C See Graph	NOTES: [1] Typical. [2] Conversion Factor 1g = 9.81 m/s ² . [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.	
Electrical 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 ⁸ ohms	≤2 sec ≥0.3 sec 18 to 28 VDC 2 to 20 mA <150 ohms 8 to 12 VDC 78.5 (µm/s ²)/√Hz 19.6 (µm/s ²)/√Hz 9.81 (µm/s ²)/√Hz >10 ⁸ ohms		
Physical 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		
	Typical Sensitivity Deviation vs Temperature 			
SUPPLIED ACCESSORIES: 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)				
OPTIONAL ACCESSORIES: Model M081A97 Captive mounting bolt M6 x 1 (1)				
Entered: <i>YMA</i>	Engineer: <i>TR2</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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