



Model Number 648A01	LOOP POWERED, CURRENT OUTPUT, INDUSTRIAL VIBRATION SENSOR			Revision: A ECN #: 43341					
Performance Measurement Range Output Frequency Range(± 10 %) Broadband Resolution Non-Linearity Environmental Temperature Range Electrical Excitation Voltage Settling Time(within 2% of value) Electrical Isolation(Case) Physical Size (Hex x Height) Weight Mounting Thread Mounting Torque(Stud) Mounting Torque(hex nut) Sensing Element Sensing Geometry Housing Material Sealing Electrical Connector Electrical Connection Position Electrical Connections(Pin A) Electrical Connections(Pin B)	ENGLISH 0.0 to 10 g rms 4-20 mA 180 to 300,000 cpm 0.05 g rms ± 1 % -40 to 185 °F 12 to 30 VDC <15 sec >10 ⁸ Ohm 7/8 in x 1.41 in 3.8 oz 1/4-28 UNF 3 to 4 ft-lb 2 to 3 ft-lb Ceramic Shear Stainless Steel Welded Hermetic 2-Pin MIL-C-5015 Side 4-20 mA Pos (+) 4-20 mA Neg (-)	SI 0.0 to 98.1 m/s ² rms 4-20 mA 3 to 5 kHz 0.49 m/s ² rms ± 1 % -40 to 85 °C 12 to 30 VDC <15 sec >10 ⁸ Ohm 22.2 mm x 35.8 mm 108 gm 1/4-28 UNF 4.1 to 5.4 Nm 2.7 to 4.1 Nm Ceramic Shear Stainless Steel Welded Hermetic 2-Pin MIL-C-5015 Side 4-20 mA Pos (+) 4-20 mA Neg (-)	[1] [2][3] [4] [5][6]	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 M080A163A (1) replaces Model 080A162					
NOTES: [1]Conversion Factor 1 in/sec = 0.0254 m/sec. [2]1Hz = 60 cpm (cycles per minute). [3]Current will fluctuate at frequencies below 5 Hz. [4]Typical value. [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]See PCB Declaration of Conformance PS039 or PS053 for details.									
SUPPLIED ACCESSORIES: Model 080A162 Mounting Stud (1) Model ICS-4 NIST-traceable single-axis amplitude response calibration from 0 cpm (0 Hz) to upper 10% frequency for 4 - 20 mA output vibration sensor (1)									
Entered: AP		Engineer: DK		Sales: EGY		Approved: BAM		Spec Number:	
Date: 10/10/2014		Date: 10/10/2014		Date: 10/10/2014		Date: 10/10/2014		53918	
 <p>[7] 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. ICP® is a registered trademark of PCB Group, Inc.</p>				 IMI SENSORS A PCB PIEZOTRONICS DIV. 3425 Walden Avenue, Depew, NY 14043		Phone: 800-959-4464 Fax: 716-684-3823 E-Mail: imi@pcb.com			