

Model Number 121A45	ICP® PRESSURE SENSOR		Revision: B ECN #: 28687	
Performance Measurement Range(for ±5V output) 500 psi 3447 kPa Sensitivity(± 15 %) 10 mV/psi 1.45 mV/kPa Maximum Pressure 8 kpsi 55,158 kPa Resolution 3 mpsi 0.02 kPa Resonant Frequency ≥ 60 kHz ≥ 60 kHz Rise Time(Reflected) ≤ 4 μ sec ≤ 4 μ sec Low Frequency Response(-5 %) 0.5 Hz 0.5 Hz Non-Linearity ≤ 2.0 % FS ≤ 2.0 % FS [8]		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 Acceleration Sensitivity ≤ 0.05 psi/g ≤ 0.035 kPa/(m/s²) Temperature Range(Operating) -65 to +250 °F -54 to +121 °C Hazardous Area Approval CSA (C-US) NRTL - Canadian Standards Association [1][2][3][4]		CSA (C-US) NRTL - Canadian Standards Association [1][2][3][4]		
Hazardous Area Approval ATEX [5][6][7]		ATEX [5][6][7]		
Electrical Output Polarity(Positive Pressure) Positive Positive Discharge Time Constant(at room temp) ≥ 1.0 sec ≥ 1.0 sec Excitation Voltage 22 to 28 VDC 22 to 28 VDC Constant Current Excitation 2 to 20 mA 2 to 20 mA Output Impedance <100 ohm <100 ohm Output Bias Voltage 8 to 14 VDC 8 to 14 VDC Electrical Isolation ≥ 10⁸ ohm ≥ 10⁸ ohm		NOTES: [1] AEx ia IIC T4, DIV1 CL1 GR A-D [2] Ex ia IIC T4, DIV1 CL1 GR A-D [3] AEx nA IIC T4, DIV2 CL1 GR A-D [4] Ex nL IIC T4, DIV2 CL1 GR A-D [5] Ex ia IIC T4. [6] Ex nL IIC T4. [7] Ex nA IIC T4. [8] Zero-based, least-squares, straight line method. [9] See PCB Declaration of Conformance PS059 for details.		
Physical Sensing Geometry Compression Compression Sensing Element Quartz Quartz Housing Material 316L Stainless Steel 316L Stainless Steel Diaphragm 316L Stainless Steel 316L Stainless Steel Sealing Welded Hermetic Welded Hermetic Electrical Connector 2-Pin MIL-C-5015 2-Pin MIL-C-5015 Weight 2.7 oz 75.6 gm				
 [9]  				
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.				
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Entered: <u>BLS</u>	Engineer: <u>RF</u>	Sales: <u>RWM</u>	Approved: <u>ETV</u>	Spec Number:
Date: <u>4.29.08</u>	Date: <u>4.29.08</u>	Date: <u>4.28.08</u>	Date: <u>4.28.08</u>	38074