



Model Number <b>112A21</b>	<b>ICP® PRESSURE SENSOR</b>		Revision: N ECN #: 40791	
<b>Performance</b> Measurement Range(for ±5V output) Useful Overrange(for ± 10V output) Sensitivity(± 10 mV/psi) Maximum Pressure Resolution Resonant Frequency Rise Time Low Frequency Response(-5 %) Non-Linearity	<b>ENGLISH</b> 100 psi 200 psi 50 mV/psi 1 kpsi 2 mpsi ≥ 250 kHz ≤ 2.0 µ sec 0.5 Hz ≤ 1.0 % FS	<b>SI</b> 690 kPa 1380 kPa 7.25 mV/kPa 6895 kPa 0.014 kPa ≥ 250 kHz ≤ 2.0 µ sec 0.5 Hz ≤ 1.0 % FS	<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>E - Emralon coating</b> [4] Coating Electrical Isolation Supplied Accessory : Model 065A08 Isolation ring 0.250"OD x 0.218" ID x 0.027" thk anodized aluminum (3) Supplied Accessory : Model 065A22 Isolation Seal, .250" OD x .218" ID x .015", Torlon or Vespel (3)	
<b>Environmental</b> Acceleration Sensitivity Temperature Range(Operating) Temperature Coefficient of Sensitivity Maximum Flash Temperature Maximum Shock	≤ 0.002 psi/g -100 to +275 °F ≤ 0.06 %/°F 3000 °F 20,000 g pk	≤ 0.0014 kPa/(m/s <sup>2</sup> ) -73 to +135 °C ≤ 0.108 %/°C 1650 °C 196,000 m/s <sup>2</sup> pk	<b>H - Hermetic Seal</b> [4] Sealing Welded Hermetic Welded Hermetic	
<b>Electrical</b> Output Polarity(Positive Pressure) Discharge Time Constant(at room temp) Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage	Positive ≥ 1.0 sec 22 to 30 VDC 2 to 20 mA <100 Ohm 8 to 14 VDC	Positive ≥ 1.0 sec 22 to 30 VDC 2 to 20 mA <100 Ohm 8 to 14 VDC	<b>J - Ground Isolated</b> [4][5]  <b>N - Negative Output Polarity</b> [4]  <b>S - Stainless Steel Diaphragm</b> [4] Diaphragm 316L Stainless Steel 316L Stainless Steel	
<b>Physical</b> Sensing Geometry Sensing Element Housing Material Diaphragm Sealing Electrical Connector Weight(with clamp nut)	Compression Quartz 17-4 Stainless Steel Invar Welded Hermetic 10-32 Coaxial Jack 0.21 oz	Compression Quartz 17-4 Stainless Steel Invar Welded Hermetic 10-32 Coaxial Jack 6.0 gm	<b>W - Water Resistant Cable</b> [6][4] Supplied Accessory : Model 060A03 Clamp nut, 5/16-24-2A thd, 1/4" hex, stainless steel (1)  <b>WM - Water Resistant Cable</b> [6][4] Supplied Accessory : Model 060A05 Clamp nut M7 x 0.75-6g thd (1)	
<b>NOTES:</b> [1] For +10 volt output, minimum 24 VDC supply voltage required. Negative 10 volt output may be limited by output bias. [2] Zero-based, least-squares, straight line method. [3] See PCB Declaration of Conformance PS023 for details. [4] For sensor mounted in thread adaptor, see adaptor installation drawing for supplied accessories. [5] Used with optional mounting adaptor. [6] Clamp nut installed prior to cable attachment				
<b>SUPPLIED ACCESSORIES:</b> Model 060A03 Clamp nut, 5/16-24-2A thd, 1/4" hex, stainless steel (1) Model 060A05 Clamp nut M7 x 0.75-6g thd (1) Model 065A02 Seal ring, sensor flush mount, 0.248" OD x 0.219" ID x 0.015" thk, brass (3) Model 065A05 Seal sleeve sensor recess mount 0.248" OD x 0.221" ID x 0.240" thk 17-4 (1)				
Entered: AP	Engineer: MJK	Sales: KWW	Approved: BAM	Spec Number:
Date: 3/19/2013	Date: 3/19/2013	Date: 3/19/2013	Date: 3/19/2013	<b>112-1210-80</b>
 [3] 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.   <b>Phone: 716-684-0001</b> <b>Fax: 716-684-0987</b> <b>E-Mail: info@pcb.com</b> 3425 Walden Avenue, Depew, NY 14043				