



Model Number 112A21	ICP® PRESSURE SENSOR		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 standard model except where noted below. More than one option maybe used.) <b>E</b> - Emralon coating [4] Coating Emralon Emralon Electrical Isolation 10 <sup>8</sup> Ohm 10 <sup>8</sup> Ohm Supplied Accessory: Model 065A08 Isolation ring, 0.250" OD x 0.218" ID x 0.027" thk, anodized aluminum Supplied Accessory: Model 065A22 Isolation Seal, .250" OD x .218" ID x .015", Torton or Vespel <b>H</b> - Hermetic Seal [4] Sealing Welded Hermetic Welded Hermetic <b>J</b> - Ground Isolated [4] <b>N</b> - Negative Output Polarity [4] <b>S</b> - Stainless Steel Diaphragm [4] Diaphragm 316L Stainless Steel 316L Stainless Steel <b>W</b> - Water Resistant Cable [4] Supplied Accessory: Model 060A03 Clamp nut, 5/16-24-2A thd, 1/4" hex, stainless steel (for Series 111, 112 and 113) [6] <b>WM</b> - Water Resistant Cable [4] Supplied Accessory: Model 060A05 Clamp nut, M7 x 0.75-6G thd (for Series 111, M112 and M113) [6]										
<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 20000 g pk	≤0.0014 kPa/(m/s <sup>2</sup> ) -73 to +135 °C ≤0.108 %/°C 1650 °C 196000 m/s <sup>2</sup> pk											
<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>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>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										
 [3]	<b>Supplied Accessories</b> 060A03 Clamp nut, 5/16-24-2A thd, 1/4" hex, stainless steel (1) 060A05 Clamp nut M7 x 0.75-6g thd (1) 065A02 Seal ring, sensor flush mount, 0.248" OD x 0.219" ID x 0.015" thk, brass (3) 065A05 Seal sleeve sensor recess mount 0.248" OD x 0.221" ID x 0.240" thk 17-4 (1)												
<i>All specifications are at room temperature unless otherwise specified.</i> 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.	<table border="1" data-bbox="1129 1271 2011 1344"> <tr> <td>Entered: AP</td> <td>Engineer: MJK</td> <td>Sales: KWW</td> <td>Approved: BAM</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 03/19/2013</td> <td>Date: 03/19/2013</td> <td>Date: 03/19/2013</td> <td>Date: 03/19/2013</td> <td><b>112-1210-80</b></td> </tr> </table>			Entered: AP	Engineer: MJK	Sales: KWW	Approved: BAM	Spec Number:	Date: 03/19/2013	Date: 03/19/2013	Date: 03/19/2013	Date: 03/19/2013	<b>112-1210-80</b>
Entered: AP	Engineer: MJK	Sales: KWW	Approved: BAM	Spec Number:									
Date: 03/19/2013	Date: 03/19/2013	Date: 03/19/2013	Date: 03/19/2013	<b>112-1210-80</b>									
	 3425 Walden Avenue Depew, NY 14043 UNITED STATES Phone: 800-828-8840 Fax: 716-684-0987 E-mail: info@pcb.com												

