



Model Number 113B21	ICP® PRESSURE SENSOR		Revision D ECN #: 40791	
<b>Performance</b> Measurement Range (for ±5V output) Useful Overrange (for ± 10V output) Sensitivity (±15 %) Maximum Pressure Resolution Resonant Frequency Rise Time Low Frequency Response (-5 %) Non-Linearity	<b>ENGLISH</b> 200 psi 400 psi 25 mV/psi 1 kpsi 1.0 mpsi ≥500 kHz ≤1.0 μ sec 0.5 Hz ≤1.0 % FS	<b>SI</b> 1379 kPa 2758 kPa 3.6 mV/kPa 6895 kPa 0.007 kPa ≥500 kHz ≤1.0 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 [5] 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 [5] Sealing Welded Hermetic Welded Hermetic <b>J</b> - Ground Isolated [5] <b>N</b> - Negative Output Polarity [6] <b>S</b> - Stainless Steel Diaphragm [5] Diaphragm 316L Stainless Steel 316L Stainless Steel <b>W</b> - Water Resistant Cable [5] Supplied Accessory: Model 060A03 Clamp nut, 5/16-24-2A thd, 1/4" hex, stainless steel (for Series 111, 112 and 113) [7] <b>WM</b> - Water Resistant Cable [5] Supplied Accessory: Model 060A05 Clamp nut, M7 x 0.75-6G thd (for Series M111, M112 and M113) [7]	
<b>Environmental</b> Acceleration Sensitivity Temperature Range (Operating) Temperature Coefficient of Sensitivity Maximum Flash Temperature Maximum Vibration Maximum Shock	≤0.002 psi/g -100 to +275 °F ≤0.03 %/°F 3000 °F 2000 g pk 20000 g pk	≤0.0014 kPa/(m/s <sup>2</sup> ) -73 to +135 °C ≤0.054 %/°C 1649 °C 19614 m/s <sup>2</sup> pk 196140 m/s <sup>2</sup> pk	[2] [1] [3] [1]	
<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 20 to 30 VDC 2 to 20 mA <100 Ohm 8 to 14 VDC	Positive ≥1.0 sec 20 to 30 VDC 2 to 20 mA <100 Ohm 8 to 14 VDC	[5] [7] [5] [5] [7]	
<b>Physical</b> Sensing Geometry Sensing Element Housing Material  Diaphragm Sealing Electrical Connector Weight (with clamp nut)	Compression Quartz 17-4 Stainless Steel 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] Typical. [2] For +10 volt output, minimum 24 VDC supply voltage required. Negative 10 volt output may be limited by output bias. [3] Zero-based, least-squares, straight line method. [4] See PCB Declaration of Conformance PS023 for details. [5] For sensor mounted in thread adaptor, see adaptor installation drawing for supplied accessories. [6] Used with optional mounting adaptor. [7] Clamp nut installed prior to cable attachment	
 [4]	<p><i>All specifications are at room temperature unless otherwise specified.</i></p> <p>In the interest of constant product improvement, we reserve the right to change specifications without notice.</p> <p>ICP® is a registered trademark of PCB group, Inc.</p>			
<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)				
Entered: AP Date: 03/19/2013	Engineer: MJK Date: 03/19/2013	Sales: KWW Date: 03/19/2013	Approved: BAM Date: 03/19/2013	Spec Number: <b>40640</b>
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