



Model Number 113B22	ICP® PRESSURE SENSOR			Revision: F ECN #: 53357										
<p><b>Performance</b></p> <p>Measurement Range(for ±5V output) Useful Overrange(for ± 10V output) Sensitivity(± 10 %) Maximum Pressure Resolution Resonant Frequency Rise Time Low Frequency Response(- 5 %) Non-Linearity</p> <p><b>Environmental</b></p> <p>Acceleration Sensitivity Temperature Range(Operating) Temperature Coefficient of Sensitivity Maximum Flash Temperature Maximum Vibration Maximum Shock</p> <p><b>Electrical</b></p> <p>Output Polarity(Positive Pressure) Discharge Time Constant(at room temp) Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage</p> <p><b>Physical</b></p> <p>Sensing Geometry Sensing Element Housing Material Diaphragm Sealing Electrical Connector Weight</p>	<p><b>ENGLISH</b></p> <p>5 kpsi 10 kpsi 1.0 mV/psi 15 kpsi 20 mpsi ≥ 500 kHz ≤ 1.0 μ sec 0.001 Hz ≤ 1.0 % FS</p> <p>≤ 0.002 psi/g -100 to +275 °F ≤ 0.03 %/°F 3,000 °F 2,000 g pk 20,000 g pk</p> <p>Positive ≥ 500 sec 20 to 30 VDC 2 to 20 mA &lt; 100 Ohm 8 to 14 VDC</p> <p>Compression Quartz 17-4 Stainless Steel Invar Welded Hermetic 10-32 Coaxial Jack 0.21 oz</p>	<p><b>SI</b></p> <p>34,475 kPa 68,950 kPa 0.145 mV/kPa 103,425 kPa 0.14 kPa ≥ 500 kHz ≤ 1.0 μ sec 0.001 Hz ≤ 1.0 % FS</p> <p>≤ 0.0014 kPa/(m/s<sup>2</sup>) -73 to +135 °C ≤ 0.054 %/°C 1,649 °C 19,614 m/s<sup>2</sup> pk 196,140 m/s<sup>2</sup> pk</p> <p>Positive ≥ 500 sec 20 to 30 VDC 2 to 20 mA &lt; 100 Ohm 8 to 14 VDC</p> <p>Compression Quartz 17-4 Stainless Steel Invar Welded Hermetic 10-32 Coaxial Jack 6.0 gm</p>	<p>[1]</p> <p>[2]</p> <p>[3]</p> <p>[2]</p>	<p><b>OPTIONAL VERSIONS</b></p> <p>Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used. [5]</p> <p><b>E</b> - Emralon coating 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 (3) Supplied Accessory: Model 065A22 Isolation Seal, .250" OD x .218" ID x .015", Torlon or Vespel (3) [5][6]</p> <p><b>J</b> - Ground Isolated Electrical Isolation(50 V) 10<sup>8</sup> Ohm 10<sup>8</sup> Ohm [5]</p> <p><b>N</b> - Negative Output Polarity [5]</p> <p><b>S</b> - Stainless Steel Diaphragm Diaphragm 316L Stainless Steel 316L Stainless Steel [5][7]</p> <p><b>W</b> - Water Resistant Cable Supplied Accessory: Model 060A03 Clamp nut, 5/16-24-2A thd, 1/4" hex, stainless steel (1) [5][7]</p> <p><b>WM</b> - Water Resistant Cable Supplied Accessory: Model 060A05 Clamp nut M7 x 0.75-6g thd (1)</p>										
<p><b>NOTES:</b></p> <p>[1]For +10 volt output, minimum 24 VDC supply voltage required. Negative 10 volt output may be limited by output bias.</p> <p>[2]Typical.</p> <p>[3]Zero-based, least-squares, straight line method.</p> <p>[4]See PCB Declaration of Conformance PS023 for details.</p> <p>[5]For sensor mounted in thread adaptor, see adaptor installation drawing for supplied accessories and pressure limitations.</p> <p>[6]Used with optional mounting adaptor.</p> <p>[7]Clamp nut installed prior to cable attachment</p>														
<p><b>SUPPLIED ACCESSORIES:</b></p> <p>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)</p>														
<table border="1"> <tr> <td>Entered: ND</td> <td>Engineer: RPF</td> <td>Sales: RWM</td> <td>Approved: RPF</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 11/30/2022</td> <td>Date: 11/30/2022</td> <td>Date: 11/30/2022</td> <td>Date: 11/30/2022</td> <td>40643</td> </tr> </table>					Entered: ND	Engineer: RPF	Sales: RWM	Approved: RPF	Spec Number:	Date: 11/30/2022	Date: 11/30/2022	Date: 11/30/2022	Date: 11/30/2022	40643
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<p> [4]</p> <p>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 Piezotronics, Inc.</p> <p> <b>PCB PIEZOTRONICS</b> AN AMPHENOL COMPANY</p> <p>Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com</p> <p>3425 Walden Avenue, Depew, NY 14043</p>														