



Model Number 111A24	PRESSURE SENSOR, ICP®			Revision: M ECN #: 53357										
<p>Performance</p> <p>Measurement Range(for ±5V output) Useful Overrange(for ± 10V output) Sensitivity(± 0.5 mV/psi) Maximum Pressure(static) Resolution Resonant Frequency Rise Time(Reflected) Low Frequency Response(- 5 %) Non-Linearity</p> <p>Environmental</p> <p>Acceleration Sensitivity Temperature Range(Operating) Temperature Coefficient of Sensitivity Maximum Flash Temperature Maximum Vibration Maximum Shock</p> <p>Electrical</p> <p>Output Polarity(Positive Pressure) Discharge Time Constant(at room temp) Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage</p> <p>Physical</p> <p>Sensing Geometry Sensing Element Housing Material Diaphragm Sealing Electrical Connector Weight</p>	<p>ENGLISH</p> <p>1,000 psi 2,000 psi 5.0 mV/psi 10,000 psi 0.02 psi ≥ 400 kHz ≤ 1.5 μ sec 0.005 Hz ≤ 2.0 % FS</p> <p>< 0.002 psi/g -100 to +275 °F ≤ 0.2 %/°F 3,000 °F 2,000 g pk 20,000 g pk</p> <p>Positive ≥ 100 sec 20 to 30 VDC 2 to 20 mA ≤ 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>SI</p> <p>6,895 kPa 13,790 kPa 0.73 mV/kPa 68,950 kPa 0.14 kPa ≥ 400 kHz ≤ 1.5 μ sec 0.005 Hz ≤ 2.0 % FS</p> <p>< 0.0014 kPa/(m/s²) -73 to +135 °C ≤ 0.36 %/°C 1,649 °C 19,614 m/s² pk 196,140 m/s² pk</p> <p>Positive ≥ 100 sec 20 to 30 VDC 2 to 20 mA ≤ 100 Ohm 8 to 14 VDC</p> <p>Compression Quartz 17-4 Stainless Steel Invar Welded Hermetic 10-32 Coaxial Jack 6 gm</p>	<p>OPTIONAL VERSIONS</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. [4]</p> <p>E - Emralon coating Coating Emralon Emralon Electrical Isolation 10⁸ Ohm 10⁸ 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) [4][5]</p> <p>J - Ground Isolated Electrical Isolation 10⁸ Ohm 10⁸ Ohm [4]</p> <p>N - Negative Output Polarity [4]</p> <p>S - Stainless Steel Diaphragm Diaphragm 316L Stainless Steel 316L Stainless Steel [4]</p> <p>W - Water Resistant Cable</p>											
<p>NOTES:</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]Zero-based, least-squares, straight line method.</p> <p>[3]See PCB Declaration of Conformance PS023 for details.</p> <p>[4]For sensor mounted in thread adaptor, see adaptor installation drawing for supplied accessories and pressure limitations.</p> <p>[5]Used with optional mounting adaptor.</p>														
<p>SUPPLIED ACCESSORIES:</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>111-1240-80</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	111-1240-80
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<p> [3]</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> PCB PIEZOTRONICS AN AMPHENOL COMPANY Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com</p> <p>3425 Walden Avenue, Depew, NY 14043</p>														