



Model Number 111A24	<b>PRESSURE SENSOR, ICP®</b>		Revision L ECN #: 40791																				
<b>Performance</b> 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	<b>ENGLISH</b> 1 kpsi 2 kpsi 5.0 mV/psi 10 kpsi 20 mpsi ≥400 kHz ≤1.5 µ sec 0.005 Hz ≤2.0 % FS	<b>SI</b> 6895 kPa 13790 kPa 0.73 mV/kPa 68950 kPa 0.14 kPa ≥400 kHz ≤1.5 µ sec 0.005 Hz ≤2.0 % 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]																				
<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 ≤0.2 %/°F 3000 °F 2000 g pk 20000 g pk	<0.0014 kPa/(m/s <sup>2</sup> ) -73 to +135 °C ≤0.36 %/°C 1649 °C 19614 m/s <sup>2</sup> pk 196140 m/s <sup>2</sup> pk	[1] [2]																				
<b>Electrical</b> Output Polarity (Positive Pressure) Discharge Time Constant (at room temp) Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage	Positive ≥100 sec 20 to 30 VDC 2 to 20 mA ≤100 Ohm 8 to 14 VDC	Positive ≥100 sec 20 to 30 VDC 2 to 20 mA ≤100 Ohm 8 to 14 VDC	<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.																				
<b>Physical</b> Sensing Geometry Sensing Element Housing Material  Diaphragm Sealing Electrical Connector Weight	Compression Quartz 17-4 Stainless Steel  Invar Epoxy 10-32 Coaxial Jack 0.21 oz	Compression Quartz 17-4 Stainless Steel  Invar Epoxy 10-32 Coaxial Jack 6 gm	<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)																				
 [3]	<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 group, Inc.</p>																						
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