



Model Number 111A22	PRESSURE SENSOR, ICP®		Revision: J ECN #: 53357
Performance Measurement Range(for ±5V output) Useful Overrange(for ± 10V output) Sensitivity(± 0.1 mV/psi) Maximum Pressure Resolution Resonant Frequency Rise Time(Reflected) Low Frequency Response(- 5 %) Non-Linearity Environmental Acceleration Sensitivity Temperature Range(Operating) Temperature Coefficient of Sensitivity Maximum Vibration Maximum Shock Electrical Output Polarity(Positive Pressure) Discharge Time Constant(at room temp) Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage Physical Sensing Geometry Sensing Element Housing Material Diaphragm Sealing Electrical Connector Weight	ENGLISH 5,000 psi 10,000 psi 1.0 mV/psi 15,000 psi 0.1 psi ≥ 400 kHz ≤ 1.5 μ sec 0.001 Hz ≤ 2.0 % FS < 0.002 psi/g -100 to +275 °F ≤ 0.2 %/°F 2,000 g pk 20,000 g pk Positive ≥ 500 sec 20 to 30 VDC 2 to 20 mA ≤ 100 Ohm 8 to 14 VDC Compression Quartz 17-4 Stainless Steel Invar Welded Hermetic 10-32 Coaxial Jack 0.21 oz	SI 34,475 kPa 68,950 kPa [1] 0.145 mV/kPa 103,425 kPa 0.69 kPa ≥ 400 kHz ≤ 1.5 μ sec 0.001 Hz ≤ 2.0 % FS [2] < 0.0014 kPa/(m/s ²) -73 to +135 °C ≤ 0.36 %/°C 19,614 m/s ² pk 196,140 m/s ² pk Positive ≥ 500 sec 20 to 30 VDC 2 to 20 mA ≤ 100 Ohm 8 to 14 VDC Compression Quartz 17-4 Stainless Steel Invar Welded Hermetic 10-32 Coaxial Jack 6.0 gm	OPTIONAL VERSIONS 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] E - Emralon coating Coating Emralon Emralon Electrical Isolation 10 ⁸ Ohm 10 ⁸ 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][4] J - Ground Isolated Electrical Isolation 10 ⁸ Ohm 10 ⁸ Ohm [4] N - Negative Output Polarity [4] S - Stainless Steel Diaphragm Diaphragm 316L Stainless Steel 316L Stainless Steel [4] W - Water Resistant Cable
 [3]	NOTES: [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 and pressure limitations. [5]Used with optional mounting adaptor.		
	SUPPLIED ACCESSORIES: 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)		
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 5712	
<div style="display: flex; justify-content: space-between;"> <div data-bbox="184 1437 1008 1510"> <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> </div> <div data-bbox="1134 1372 1722 1469" style="text-align: center;">  <p>PCB PIEZOTRONICS AN AMPHENOL COMPANY Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com</p> </div> <div data-bbox="1134 1453 1449 1469"> <p>3425 Walden Avenue, Depew, NY 14043</p> </div> </div>			