



Model Number 111A23	ICP® PRESSURE SENSOR			Revision: L ECN #: 54949
Performance Measurement Range(for ±5V output) Sensitivity(± 0.05 mV/psi) Maximum Pressure Resolution Resonant Frequency Rise Time(Reflected) Low Frequency Response(- 5 %) Non-Linearity	ENGLISH 10,000 psi 0.5 mV/psi 15,000 psi 0.2 psi ≥ 400 kHz ≤ 1.5 μ sec 0.0005 Hz ≤ 2.0 % FS	SI 68,950 kPa 0.07 mV/kPa 103,420 kPa 1.4 kPa ≥ 400 kHz ≤ 1.5 μ sec 0.0005 Hz ≤ 2.0 % FS		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. CA - Ablative Coating [4] E - Emralon coating [5] 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 [5] Electrical Isolation(50 V) 10 ⁸ Ohm 10 ⁸ Ohm N - Negative Output Polarity [5] S - Stainless Steel Diaphragm [5][6] Diaphragm 316L Stainless Steel 316L Stainless Steel W - Water Resistant Cable [5][6] WM - Water Resistant Cable [5][6]
Environmental Acceleration Sensitivity Temperature Range(Operating) Temperature Coefficient of Sensitivity Maximum Vibration Maximum Shock	0.002 psi/g -100 to +275 °F ≤ 0.03 %/°F 2,000 g pk 20,000 g pk	0.0014 kPa/(m/s ²) [1] -73 to +135 °C ≤ 0.054 %/°C 19,600 m/s ² pk 196,000 m/s ² pk		
Electrical Output Polarity(Positive Pressure) Discharge Time Constant(at room temp) Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage	Positive ≥ 1,000 sec 20 to 30 VDC 2 to 20 mA ≤ 100 Ohm 8 to 14 VDC	Positive ≥ 1,000 sec 20 to 30 VDC 2 to 20 mA ≤ 100 Ohm 8 to 14 VDC		
Physical Sensing Geometry Sensing Element Housing Material Diaphragm Sealing Electrical Connector Weight	Compression Quartz 17-4 Stainless 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		
NOTES: [1]Typical. [2]Zero-based, least-squares, straight line method. [3]See PCB Declaration of Conformance PS023 for details. [4]Used with optional mounting adaptor. [5]For sensor mounted in thread adaptor, see adaptor installation drawing for supplied accessories and pressure limitations. [6]Clamp nut installed prior to cable attachment				
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) Model PCS-1AZ Sensitivity calibration at 100% and 10% of sensor range				
Entered: ND	Engineer: AJA	Sales: RWM	Approved: RPF	Spec Number:
Date: 06/26/2024	Date: 06/26/2024	Date: 06/26/2024	Date: 06/26/2024	5713
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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.				