



Model Number 102M81A	ICP® PRESSURE SENSOR			Revision: A ECN #: 50860
Performance Measurement Range(for ±5V output) Useful Overrange(for ± 10V output) Sensitivity(± 15 %) Maximum Pressure(step) Maximum Pressure(Total) Resolution Resonant Frequency Rise Time(Reflected) Non-Linearity	ENGLISH 500 psi 1,000 psi 10 mV/psi 5,000 psi 7.5 kpsi 10 mpsi ≥ 250 kHz ≤ 2.0 μ sec ≤ 1.0 % FS	SI 3,447 kPa 6,895 kPa 1.45 mV/kPa 34,500 kPa 51,711 kPa 0.0689 kPa ≥ 250 kHz ≤ 2.0 μ sec ≤ 1.0 % FS	[1] [2] [3] [4] [5]	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.
Environmental Acceleration Sensitivity Temperature Range(Operating) Temperature Coefficient of Sensitivity Maximum Flash Temperature Maximum Vibration Maximum Shock	≤ 0.002 psi/g -320 to +212 °F ≤ 0.06 %/°F 3,000 °F 2,000 g pk 20,000 g pk	≤ 0.0014 kPa/(m/s ²) -196 to +100 °C ≤ 0.108 %/°C 1648.89 °C 19,613 m/s ² pk 196,133 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 ≥ 1.0 sec 15 to 30 VDC 2 to 20 mA ≤ 500 Ohm 3 to 8 VDC	Positive ≥ 1.0 sec 15 to 30 VDC 2 to 20 mA ≤ 500 Ohm 3 to 8 VDC		
Physical Housing Material Thread Adaptor Material Diaphragm Sealing Electrical Connector Weight	304L/316L Stainless Steel Vascomax C-300 316L Stainless Steel Welded Hermetic 10-32 Coaxial Jack 0.9 oz	304L/316L Stainless Steel Vascomax C-300 316L Stainless Steel Welded Hermetic 10-32 Coaxial Jack 25 gm		
 [6]	NOTES: [1]-5V output may be limited by the output bias. [2]For +10 volt output, minimum 24 VDC supply voltage required. Negative 10 volt output may be limited by output bias. [3]Due to high sensitivity, the static pressure should be applied and removed very slowly. Rate should prevent more than 10 Volt change in output until Output Bias Voltage returns to normal (approximately 15 times discharge time constant). [4]Typical. [5]Zero-based, least-squares, straight line method. [6]See PCB Declaration of Conformance PS023 for details.			
Entered: LK	Engineer: NJL	Sales: RWM	Approved: RPF	Spec Number:
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