

Model Number 102A14	ICP® PRESSURE SENSOR				Revision: F ECN #: 29109
Performance Measurement Range(for ±5V output) 5 kpsi Useful Overrange(for ± 10V output) 10 kpsi Sensitivity(± 15 %) 1.0 mV/psi Maximum Pressure 15 kpsi Resolution 100 mpsi Resonant Frequency ≥ 250 kHz Rise Time ≤ 2.0 μ sec Low Frequency Response(-5 %) 0.25 Hz Non-Linearity ≤ 1.0 % FS		ENGLISH 5 kpsi 10 kpsi 1.0 mV/psi 15 kpsi 100 mpsi ≥ 250 kHz ≤ 2.0 μ sec 0.25 Hz ≤ 1.0 % FS		SI 34,475 kPa 68,950 kPa 0.145 mV/kPa 103,425 kPa 0.690 kPa ≥ 250 kHz ≤ 2.0 μ sec 0.25 Hz ≤ 1.0 % FS	
Environmental Acceleration Sensitivity ≤ 0.002 psi/g Temperature Range(Operating) -320 to +212 °F Temperature Coefficient of Sensitivity ≤ 0.06 %/°F Maximum Flash Temperature 3000 °F Maximum Shock 20,000 g pk		≤ 0.0014 kPa/(m/s²) -196 to +100 °C ≤ 0.108 %/°C 1649 °C 196,140 m/s² pk		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. M - Metric Mount Supplied Accessory : Model 065A34 Seal ring 0.435" OD x 0.397" ID x 0.030" Cu (3) replaces Model 622A01	
Electrical Output Polarity(Positive Pressure) Positive Discharge Time Constant(at room temp) ≥ 2 sec Excitation Voltage 20 to 30 VDC Constant Current Excitation 2 to 20 mA Output Impedance <100 ohm Output Bias Voltage 9 to 13 VDC		Positive ≥ 2 sec 20 to 30 VDC 2 to 20 mA <100 ohm 9 to 13 VDC		NOTES: [1] Excitation voltage ≥28 volts required. [2] Typical. [3] Zero-based, least-squares, straight line method. [4] See PCB Declaration of Conformance PS023 for details.	
Physical Sensing Element Quartz Housing Material Stainless Steel Diaphragm 316L Stainless Steel Sealing Welded Hermetic Electrical Connector 10-32 Coaxial Jack Weight 0.388 oz		Quartz Stainless Steel 316L Stainless Steel Welded Hermetic 10-32 Coaxial Jack 11.00 gm		SUPPLIED ACCESSORIES: Model 065A44 Seal ring 0.435" OD x 0.377" ID x 0.030" thk Cu (3)	
 [4]		Entered: BLS Date: 7/16/08		Engineer: RF Date: 7/16/08	
		Sales: RWH Date: 7/16/08		Approved: BM Date: 7/16/08	
				Spec Number: 6855	
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.				Phone: 716-684-0001 Fax: 716-686-9129 E-Mail: pressure@pcb.com	
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