

Model Number 109C11	ICP® PRESSURE SENSOR		Revision: D ECN #: 27048
Performance	ENGLISH	SI	OPTIONAL VERSIONS
Measurement Range	80 kpsi	552,000 kPa	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used. H - Hermetic Seal Housing Material 17-4 Stainless Steel 17-4 Stainless Steel Maximum Shock 20,000 g pk 196,133 Sealing Welded Hermetic Welded Hermetic M - Metric Mount N - Negative Output Polarity W - Water Resistant Cable
Useful Overrange	100 kpsi	690,000 kPa	
Sensitivity(± 15 %)	0.07 mV/psi	0.010 mV/kPa	
Maximum Pressure	125 kpsi	862,000 kPa	
Resolution	≤ 2.0 psi	≤ 13.8 kPa	
Resonant Frequency	≥ 400 kHz	≥ 400 kHz	
Rise Time	≤ 2 μ sec	≤ 2 μ sec	
Non-Linearity	≤ 2.0 % FS	≤ 2.0 % FS	
Environmental			
Acceleration Sensitivity	≤ 0.02 psi/g	≤ 0.015 kPa/(m/s ²)	
Temperature Range(Operating)	-100 to +275 °F	-73 to +135 °C	
Temperature Coefficient of Sensitivity	≤ 0.07 %/°F	≤ 0.126 %/°C	
Maximum Flash Temperature	3000 °F	1650 °C	
Maximum Vibration	2000 g pk	19,620 m/s ² pk	
Maximum Shock	50,000 g pk	490,330 m/s ² pk	
Electrical			
Output Polarity(Positive Pressure)	Positive	Positive	
Discharge Time Constant(at room temp)	≥ 2000 sec	≥ 2000 sec	
Excitation Voltage	20 to 30 VDC	20 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 100 ohm	≤ 100 ohm	
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC	
Physical			
Sensing Geometry	Compression	Compression	
Sensing Element	Quartz	Quartz	
Housing Material	C-300	C-300	
Diaphragm	C-300	C-300	
Sealing	Epoxy	Epoxy	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Weight	0.6 oz	17 gm	
			NOTES: [1] Zero-based, least-squares, straight line method. [2] Ceramic coated. [3] See PCB Declaration of Conformance PS023 for details.
			SUPPLIED ACCESSORIES: Model 065A06 Seal ring 0.318" OD x 0.250" ID x 0.010" thk 316L SS material (3)
			Entered: BLS Engineer: RF Sales: ORC Approved: RF Spec Number:
			Date: 8-11-07 Date: 8-7-07 Date: 8-7-07 Date: 8-7-07 21923
			PCB PIEZOTRONICS™ PRESSURE DIVISION 3425 Walden Avenue, Depew, NY 14043 Phone: 716-684-0001 Fax: 716-686-9129 E-Mail: pressure@pcb.com



[3]

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.
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