



Model Number 113B22	ICP® PRESSURE SENSOR		Revision: D ECN #: 40791
Performance	ENGLISH	SI	OPTIONAL VERSIONS
Measurement Range(for ±5V output)	5 kpsi	34,475 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. 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) H - Hermetic Seal [5] Sealing Welded Hermetic Welded Hermetic J - Ground Isolated [5][6] N - Negative Output Polarity [5] S - Stainless Steel Diaphragm [5] Diaphragm 316L Stainless Steel 316L Stainless Steel W - Water Resistant Cable [7][5] Supplied Accessory : Model 060A03 Clamp nut, 5/16-24-2A thd, 1/4" hex, stainless steel (1) WM - Water Resistant Cable [7][5] Supplied Accessory : Model 060A05 Clamp nut M7 x 0.75-6g thd (1)
Useful Overrange(for ± 10V output)	10 kpsi	68,950 kPa	
Sensitivity(± 10 %)	1.0 mV/psi	0.145 mV/kPa	
Maximum Pressure	15 kpsi	103,425 kPa	
Resolution	20 mpsi	0.14 kPa	
Resonant Frequency	≥ 500 kHz	≥ 500 kHz	
Rise Time	≤ 1.0 μ sec	≤ 1.0 μ sec	
Low Frequency Response(-5 %)	0.001 Hz	0.001 Hz	
Non-Linearity	≤ 1.0 % FS	≤ 1.0 % FS	
Environmental			
Acceleration Sensitivity	≤ 0.002 psi/g	≤ 0.0014 kPa/(m/s ²)	
Temperature Range(Operating)	-100 to +275 °F	-73 to +135 °C	
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C	
Maximum Flash Temperature	3000 °F	1649 °C	
Maximum Vibration	2000 g pk	19,614 m/s ² pk	
Maximum Shock	20,000 g pk	196,140 m/s ² pk	
Electrical			
Output Polarity(Positive Pressure)	Positive	Positive	
Discharge Time Constant(at room temp)	≥ 500 sec	≥ 500 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	17-4 Stainless Steel	17-4 Stainless Steel	
Diaphragm	Invar	Invar	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Weight	0.21 oz	6.0 gm	
 [4]			NOTES: [1] Typical. [2] For +10 volt output, minimum 24 VDC supply voltage required. Negative 10 volt output may be limited by output bias. [3] Zero-based, least-squares, straight line method. [4] See PCB Declaration of Conformance PS023 for details. [5] For sensor mounted in thread adaptor, see adaptor installation drawing for supplied accessories. [6] Used with optional mounting adaptor. [7] Clamp nut installed prior to cable attachment
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.			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: AP	Engineer: MJK	Sales: KWW	Approved: BAM
Date: 3/19/2013	Date: 3/19/2013	Date: 3/19/2013	Date: 3/19/2013
			40643
			Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com
3425 Walden Avenue, Depew, NY 14043			



Represented in India by

Structural Solutions Pvt Ltd. | Phone: 040 2322 2380 | Email: sales@stsols.com

#4th Floor, Sudheer Tapani Towers, Himayath Nagar, Hyderabad - 500 029