



Model Number <b>113B22</b>	<b>ICP® PRESSURE SENSOR</b>		Revision: D ECN #: 40791		
<b>Performance</b>	<b>ENGLISH</b>	<b>SI</b>	<b>OPTIONAL VERSIONS</b> Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.		
Measurement Range(for ±5V output)	5 kpsi	34,475 kPa	<b>E - Emralon coating</b> [5] Coating Emralon Emralon Electrical Isolation 10 <sup>8</sup> Ohm 10 <sup>8</sup> 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)		
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			
<b>Environmental</b>				<b>H - Hermetic Seal</b> [5] Sealing Welded Hermetic Welded Hermetic  <b>J - Ground Isolated</b> [5][6]  <b>N - Negative Output Polarity</b> [5]  <b>S - Stainless Steel Diaphragm</b> [5] Diaphragm 316L Stainless Steel 316L Stainless Steel  <b>W - Water Resistant Cable</b> [7][5] Supplied Accessory : Model 060A03 Clamp nut, 5/16-24-2A thd, 1/4" hex, stainless steel (1)  <b>WM - Water Resistant Cable</b> [7][5] Supplied Accessory : Model 060A05 Clamp nut M7 x 0.75-6g thd (1)	
Acceleration Sensitivity	≤ 0.002 psi/g	≤ 0.0014 kPa/(m/s <sup>2</sup> )			
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 <sup>2</sup> pk			
Maximum Shock	20,000 g pk	196,140 m/s <sup>2</sup> pk			
<b>Electrical</b>					
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			
<b>Physical</b>			<b>NOTES:</b> [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  <b>SUPPLIED ACCESSORIES:</b> 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)		
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] 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.					
Entered: AP		Engineer: MJK	Sales: KWW	Approved: BAM	Spec Number:
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 3425 Walden Avenue, Depew, NY 14043				Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com	