



Model Number 113B27		ICP® PRESSURE SENSOR		Revision: E ECN #: 53357
<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. [5]  <b>E</b> - Emralon coating 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) [5][6]  <b>J</b> - Ground Isolated Electrical Isolation(50 V) 10 <sup>8</sup> Ohm 10 <sup>8</sup> Ohm [5]  <b>N</b> - Negative Output Polarity [5]  <b>S</b> - Stainless Steel Diaphragm Diaphragm 316L Stainless Steel 316L Stainless Steel [5][7]  <b>W</b> - Water Resistant Cable Supplied Accessory: Model 060A03 Clamp nut, 5/16-24-2A thd, 1/4" hex, stainless steel (1) [5][7]  <b>WM</b> - Water Resistant Cable Supplied Accessory: Model 060A05 Clamp nut M7 x 0.75-6g thd (1)
Measurement Range(for ±5V output)	100 psi	689.4 kPa		
Useful Overrange(for ± 10V output)	200 psi	1378.8 kPa	[1]	
Sensitivity(± 15 %)	50 mV/psi	7.25 mV/kPa		
Maximum Pressure	1 kpsi	6,895 kPa		
Resolution	1 mpsi	0.007 kPa	[2]	
Resonant Frequency	≥ 500 kHz	≥ 500 kHz		
Rise Time	≤ 1.0 μ sec	≤ 1.0 μ sec		
Low Frequency Response(- 5 %)	0.5 Hz	0.5 Hz		
Non-Linearity	≤ 1.0 % FS	≤ 1.0 % FS	[3]	
<b>Environmental</b>				
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	[2]	
Maximum Flash Temperature	3,000 °F	1,649 °C		
Maximum Vibration	2,000 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)	≥ 1.0 sec	≥ 1.0 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>				
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(with clamp nut)	0.16 oz	4.5 gm		
<b>NOTES:</b> [1]For +10 volt output, minimum 24 VDC supply voltage required. Negative 10 volt output may be limited by output bias. [2]Typical. [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 and pressure limitations. [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 17-7 (1)				
Entered: ND	Engineer: RPF	Sales: RWM	Approved: RPF	Spec Number:
Date: 12/01/2022	Date: 12/01/2022	Date: 12/01/2022	Date: 12/01/2022	40651
 [4]		 Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com AN AMPHENOL COMPANY		
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 Piezotronics, Inc.				
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