



Model Number 123B21		ICP® PRESSURE SENSOR		Revision: B ECN #: 55076
Performance		ENGLISH	SI	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.
Measurement Range(for ±5V output)	250 psi	1,724 kPa		
Useful Overrange(for ± 10V output)	500 psi	3,448 kPa	[1]	
Sensitivity(± 15 %)	20 mV/psi	2.90 mV/kPa		
Maximum Pressure	5,000 psi	34,475 kPa		
Resolution	0.005 psi	0.034 kPa	[2]	
Resonant Frequency	≥ 25 kHz	≥ 25 kHz	[3]	
Rise Time(Reflected)	≤ 20 μ sec	≤ 20 μ sec	[3]	
Low Frequency Response(- 5 %)	0.5 Hz	0.5 Hz		
Non-Linearity	≤ 1.0 % FS	≤ 1.0 % FS	[4]	
Environmental				
Acceleration Sensitivity	0.002 psi/g	0.0014 kPa/(m/s ²)	[2]	
Temperature Range(Operating)	-100 to +250 °F	-73 to +121 °C	[5]	
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C		
Maximum Flash Temperature	10,000 °F	5,538 °C		
Maximum Vibration	2,000 g pk	19,600 m/s ² pk		
Maximum Shock	10,000 g pk	98,070 m/s ² pk		
Electrical				
Output Polarity(Positive Pressure)	Positive	Positive		
Discharge Time Constant	≥ 1 sec	≥ 1 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				
Housing Material	17-4 Stainless Steel	17-4 Stainless Steel		
Diaphragm	Invar	Invar		
Sealing	Hermetic	Hermetic		
Electrical Connector	Integral Cable	Integral Cable		
Weight	4.59 oz	130 gm		
Helium Flow Rate(at 1,500 psi)	40 scf/hr	1.13 m ³ /hr		
Water Flow Rate(at 50 psi)	1.2 gal/min	4.5 L/min		
Cable Length	4 ft	1.2 m		
NOTES:				
[1]For +10 volt output, minimum 24 VDC supply voltage required. Negative 10 volt output may be limited by output bias.				
[2]Typical.				
[3]With helium flow.				
[4]Zero-based, least-squares, straight line method.				
[5]Applies to internal amplifier, not to external housing.				
[6]See PCB Declaration of Conformance PS023 for details.				
SUPPLIED ACCESSORIES:				
Model 065A15 Seal, .624" OD x .553" ID x .080", brass (3)				
Model 065A72 Water cooling tubes (o-ring sealed) (2)				
Model 070A08 Cable adaptor (micro 10-32 jack to BNC jack) (1)				
Model PCS-5 Calibration of Models series 122,123,124: Dynamic pressure calibration to 100% full scale. Helium Flow test and water pressure test (where applicable).				
Entered: ND	Engineer: AJA	Sales: RWM	Approved: RPF	Spec Number:
Date: 08/14/2024	Date: 08/14/2024	Date: 08/14/2024	Date: 08/14/2024	77630
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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. This model, designated with an RH prefix, is RoHS compliant. For further details, and to obtain PCB's RoHS Statement of Conformance, please visit http://www.pcb.com		AN AMPHENOL COMPANY 3425 Walden Avenue, Depew, NY 14043		