

Model Number 123B22		ICP® PRESSURE SENSOR		Revision: D ECN #: 56756	
Performance		ENGLISH	SI	OPTIONAL VERSIONS	
Measurement Range(for ± 3V output)		3,000 psi	20,685 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.	
Sensitivity(± 15 %)		1.0 mV/psi	0.145 mV/kPa		
Maximum Pressure		5,000 psi	34,475 kPa		
Resolution		0.1 psi	0.689 kPa [1]		
Resonant Frequency		≥ 25 kHz	≥ 25 kHz [2]		
Rise Time(Reflected)		≤ 20 μ sec	≤ 20 μ sec [2]		
Low Frequency Response(- 5 %)		0.001 Hz	0.001 Hz		
Non-Linearity		≤ 1.0 % FS	≤ 1.0 % FS [3]		
Environmental					
Acceleration Sensitivity		0.002 psi/g	0.0014 kPa/(m/s²) [1]		
Temperature Range(Operating)		-100 to +250 °F	-73 to +121 °C [4]		
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/s² pk		
Maximum Shock		10,000 g pk	98,070 m/s² pk		
Electrical					
Output Polarity(Positive Pressure)		Positive	Positive		
Discharge Time Constant		≥ 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		
Electrical Isolation(at 50 VDC)		100 MOhm	100 MOhm		
Output Bias Voltage		8 to 12 VDC	8 to 12 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(without cable)		4.59 oz	130 gm		
Helium Flow Rate(at 1,500 psi)		40 scf/hr	1.13 m³/hr		
Water Flow Rate(at 50 psi)		1.2 gal/min	4.5 L/min		
Cable Length		4 ft	1.2 m		
NOTES: [1]Typical. [2]With helium flow. [3]Zero-based, least-squares, straight line method. [4]Applies to internal amplifier, not to external housing. [5]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: RPF		Sales: AH	Approved: AJA
Date: 06/22/2026		Date: 06/22/2026		Date: 06/22/2026	Date: 06/22/2026
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