



Model Number 123B22	ICP® PRESSURE SENSOR			Revision: NR ECN #: 46851
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 ± 3V output)	3 kpsi	20,685 kPa		NOTES: [1] Applies to internal amplifier, not to external housing. [2] Typical. [3] With helium flow. [4] Zero-based, least-squares, straight line method. [5] See PCB Declaration of Conformance PS023 for details.
Sensitivity(± 15 %)	1.0 mV/psi	0.145 mV/kPa		
Maximum Pressure	5 kpsi	34,475 kPa		
Resolution	100 mpsi	0.689 kPa	[2]	
Resonant Frequency	≥ 25 kHz	≥ 25 kHz	[3]	
Rise Time(Reflected)	≤ 20 μ sec	≤ 20 μ sec	[3]	
Low Frequency Response(-5 %)	0.001 Hz	0.001 Hz		
Non-Linearity	≤ 1.0 % FS	≤ 1.0 % FS	[4]	
Environmental				
Acceleration Sensitivity	≤ 0.002 psi/g	≤ 0.0014 kPa/(m/s ²)	[1]	
Temperature Range(Operating)	-100 to +250 °F	-73 to +121 °C	[1]	
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C		
Maximum Flash Temperature	10,000 °F	5538 °C		
Maximum Shock	10,000 g pk	98,070 m/s ² pk		
Electrical				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)
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 12 VDC	8 to 12 VDC		
Physical				
Housing Material	17-4 Stainless Steel	17-4 Stainless Steel		
Diaphragm	Invar	Invar		
Sealing	Epoxy	Epoxy		
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 m ³ /hr		
Cable Length	4 ft	1.2 m		
Water Flow Rate(at 50 psi)	1.2 gal/min	4.5 L/min		
				
<i>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.</i>				
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