

Model Number 101A05		ICP® PRESSURE SENSOR			Revision: K ECN #: 44786	
Performance		ENGLISH	SI	[1]	OPTIONAL VERSIONS	
Measurement Range(for ±5V output)	100 psi	689 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.	
Useful Overrange(for ± 10V output)	200 psi	1379 kPa				
Sensitivity(± 10 mV/psi)	50 mV/psi	7.3 mV/kPa				
Maximum Pressure(static)	1000 psi	6895 kPa				
Resolution	0.002 psi	0.014 kPa				
Resonant Frequency	≥ 250 kHz	≥ 250 kHz				
Rise Time(Reflected)	≤ 2.0 μ sec	≤ 2.0 μ sec				
Low Frequency Response(-5 %)	0.5 Hz	0.5 Hz				
Non-Linearity	≤ 2.0 % FS	≤ 2.0 % FS				
Environmental				[2]	H - Hermetic Seal	
Acceleration Sensitivity	≤ 0.01 psi/g	≤ 0.007 kPa/(m/s²)			Sealing Welded Hermetic Welded Hermetic	
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	1650 °C				
Maximum Shock	20,000 g pk	196,140 m/s² pk				
Electrical					M - Metric Mount	
Output Polarity(Positive Pressure)	Positive	Positive			Supplied Accessory : Model 065A40 Seal ring 0.435" OD x 0.397" ID x 0.030" thk brass (3) replaces Model 065A03	
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		N - Negative Output Polarity		
Output Impedance	<100 Ohm	<100 Ohm				
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC				
Electrical Isolation	10 ⁸ Ohm	10 ⁸ Ohm				
Physical				S - Stainless Steel Diaphragm		
Sensing Geometry	Compression	Compression		Diaphragm 316L Stainless Steel 316L Stainless Steel		
Sensing Element	Quartz	Quartz				
Housing Material	Stainless Steel	Stainless Steel				
Diaphragm	Invar	Invar		W - Water Resistant Cable		
Sealing	Welded Hermetic	Welded Hermetic				
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack				
Weight	0.44 oz	12.5 gm				
						
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.						
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