

Model Number 105C03		ICP® PRESSURE SENSOR		Revision: E ECN #: 55250	
Performance		ENGLISH	SI	OPTIONAL VERSIONS	
Measurement Range(for ±1V output)		100 psi	690 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. M - Metric Mount Supplied Accessory: Model 060A05 Clamp nut M7 x 0.75-6g thd (1) replaces Model 060A03 W - Water Resistant Cable	
Sensitivity(± 15 %)		10 mV/psi	1.45 mV/kPa		
Maximum Pressure		7.50 kpsi	51,700 kPa		
Resolution		0.01 psi	0.069 kPa		
Resonant Frequency		≥ 250 kHz	≥ 250 kHz		
Rise Time		≤ 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					
Acceleration Sensitivity		0.04 psi/g	0.028 kPa/(m/s ²)		
Temperature Range(Operating)		-100 to +250 °F	-73 to +121 °C		
Temperature Coefficient of Sensitivity		≤ 0.05 %/°F	≤ 0.09 %/°C		
Maximum Flash Temperature		3,000 °F	1,650 °C		
Maximum Vibration		1,000 g pk	9,800 m/s ² pk		
Maximum Shock		5,000 g pk	49,000 m/s ² pk		
Electrical					
Output Polarity(Positive Pressure)		Positive	Positive		
Discharge Time Constant(at room temp)		≥ 1.0 sec	≥ 1.0 sec		
Excitation Voltage		24 to 30 VDC	24 to 30 VDC		
Constant Current Excitation		2 to 20 mA	2 to 20 mA		
Output Impedance		< 100 Ohm	< 100 Ohm		
Output Bias Voltage		10 to 15 VDC	10 to 15 VDC		
Physical					
Sensing Geometry		Compression	Compression		
Sensing Element		Quartz	Quartz		
Housing Material		Stainless Steel	Stainless Steel		
Diaphragm		17-4 Stainless Steel	17-4 Stainless Steel		
Sealing		Welded Hermetic	Welded Hermetic		
Electrical Connector		10-32 Coaxial Jack	10-32 Coaxial Jack		
Weight		0.01 oz	3 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 Piezotronics, Inc.		NOTES:			
		[1]Due to high sensitivity, the static pressure should be applied and removed very slowly. Rate should prevent more than 10 Volt change in output until Output Bias Voltage returns to normal (approximately 15 times discharge time constant).			
		[2]Typical.			
		[3]Zero-based, least-squares, straight line method.			
		[4]See PCB Declaration of Conformance PS023 for details.			
		SUPPLIED ACCESSORIES:			
		Model 060A03 Clamp nut, 5/16-24-2A thd, 1/4" hex, stainless steel (1)			
		Model 065A21 Seal ring 0.154" OD x 0.100" ID x 0.022" thk brass (3)			
		Model PCS-1 Calibration of dynamic pressure sensors at 100% full scale, max 15 kpsi range.			
Entered: ND		Engineer: RPF	Sales: RWM	Approved: RPF	Spec Number:
Date: 10/07/2024		Date: 10/07/2024	Date: 10/07/2024	Date: 10/07/2024	12290
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