

Model Number 121A45		ICP® PRESSURE SENSOR		Revision: E ECN #: 56207		
Performance		ENGLISH	SI	OPTIONAL VERSIONS		
Measurement Range(for ±5V output)		500 psi	3,447 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 %)		10 mV/psi	1.45 mV/kPa			
Maximum Pressure		8,000 psi	55,158 kPa			
Resolution		3 mpsi	0.02 kPa			[1]
Resonant Frequency		≥ 60 kHz	≥ 60 kHz			
Rise Time(Reflected)		≤ 4 μ sec	≤ 4 μ sec			
Low Frequency Response(- 5 %)		0.5 Hz	0.5 Hz			
Non-Linearity		≤ 2.0 % FS	≤ 2.0 % FS	[2]		
Environmental						
Acceleration Sensitivity		0.025 psi/g	0.018 kPa/(m/s ²)	[1]		
Temperature Range(Operating)		-65 to +250 °F	-54 to +121 °C			
Hazardous Area Approval		See Manual	See Manual			
Electrical						
Output Polarity(Positive Pressure)		Positive	Positive			
Discharge Time Constant(at room temp)		≥ 1.0 sec	≥ 1.0 sec			
Excitation Voltage		22 to 28 VDC	22 to 28 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			
Electrical Isolation		≥ 10 ⁸ Ohm	≥ 10 ⁸ Ohm			
Physical						
Sensing Geometry		Compression	Compression			
Sensing Element		Quartz	Quartz			
Housing Material		316L Stainless Steel	316L Stainless Steel			
Diaphragm		316L Stainless Steel	316L Stainless Steel			
Sealing		Welded Hermetic	Welded Hermetic			
Electrical Connector		2-Pin MIL-C-5015	2-Pin MIL-C-5015			
Weight		2.7 oz	75.6 gm			
NOTES:						
[1]Typical.						
[2]Zero-based, least-squares, straight line method.						
[3]See PCB Declaration of Conformance PS059 for details.						
[4]See Model's "Instructions For Use" (IFU) for North American Conformity and Certification Statements.						
SUPPLIED ACCESSORIES:						
Model PCS-1 Calibration of dynamic pressure sensors up to 100% range						
CEUKCA^[3] ETL^{US} Intertek^[4]						
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.						
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