

Model Number 138A10		ICP® PRESSURE SENSOR		Revision: G ECN #: 29109	
Performance		ENGLISH	SI	OPTIONAL VERSIONS	
Measurement Range(for ±5V output)		10 kpsi	68,950 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)		20 kpsi	137,900 kPa		
Sensitivity(± 15 %)		0.5 mV/psi	0.073 mV/kPa		
Maximum Pressure		50 kpsi	344,750 kPa	N - Negative Output Polarity	
Resolution		200 mpsi	0.14 kPa	W - Water Resistant Cable	
Resonant Frequency		≥ 1000 kHz	≥ 1000 kHz	NOTES: [1] For +10 volt output, minimum 24 VDC supply voltage required. Negative 10 volt output may be limited by output bias. [2] Typical. [3] Zero-based, least-squares, straight line method. [4] See PCB Declaration of Conformance PS023 for details.	
Rise Time(Reflected)		≤ 1.5 μ sec	≤ 1.5 μ sec		
Low Frequency Response(-5 %)		2.5 Hz	2.5 Hz		
Non-Linearity		≤ 2.0 % FS	≤ 2.0 % FS		
Environmental					
Temperature Range(Operating)		0 to +100 °F	-17.8 to +37.8 °C		
Maximum Shock		20,000 g pk	196,140 m/s² pk		
Electrical					
Output Polarity(Positive Pressure)		Positive	Positive		
Discharge Time Constant(at room temp)		≥ 0.2 sec	≥ 0.2 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 14 VDC	8 to 14 VDC		
Physical					
Sensing Element		Tourmaline	Tourmaline		
Housing Material		Stainless Steel	Stainless Steel		
Electrical Connector		10-32 Coaxial Jack	10-32 Coaxial Jack		
Weight		0.75 oz	21.0 gm		
					
[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 Group, Inc.					
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