



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	[1]	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		N - Negative Output Polarity											
Sensitivity(± 15 %)	0.5 mV/psi	0.073 mV/kPa		W - Water Resistant Cable											
Maximum Pressure	50 kpsi	344,750 kPa	[2]												
Resolution	200 mpsi	0.14 kPa													
Resonant Frequency	≥ 1000 kHz	≥ 1000 kHz	[3]												
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				NOTES:											
Temperature Range(Operating)	0 to +100 °F	-17.8 to +37.8 °C		[1] For +10 volt output, minimum 24 VDC supply voltage required. Negative 10 volt output may be limited by output bias.											
Maximum Shock	20,000 g pk	196,140 m/s² pk		[2] Typical.											
Electrical				[3] Zero-based, least-squares, straight line method.											
Output Polarity(Positive Pressure)	Positive	Positive		[4] See PCB Declaration of Conformance PS023 for details.											
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]		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Entered: BLS</td> <td>Engineer: RE</td> <td>Sales: RWM</td> <td>Approved: BM</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 7/16/08</td> <td>Date: 7/16/08</td> <td>Date: 7/16/08</td> <td>Date: 7/16/08</td> <td>138-1100--80</td> </tr> </table>				Entered: BLS	Engineer: RE	Sales: RWM	Approved: BM	Spec Number:	Date: 7/16/08	Date: 7/16/08	Date: 7/16/08	Date: 7/16/08	138-1100--80
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<p><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></p> <p>ICP® is a registered trademark of PCB Group, Inc.</p>		 <p>PCB PIEZOTRONICS™ PRESSURE DIVISION</p>		<p>Phone: 716-684-0001 Fax: 716-686-9129 E-Mail: pressure@pcb.com</p>											
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