



Model Number 103B12	ACOUSTIC ICP® PRESSURE SENSOR		Revision: A ECN #: 20134										
Performance	ENGLISH	SI	OPTIONAL VERSIONS 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 060A24 Clamp nut M14 x 1.25-6G thd 11 mm hex 17-4 SS material (1)										
Measurement Range (± 5 V output)	10 psi	190.7 dB											
Useful Overrange (± 10 V output)	20 psi	196.7 dB	[1]										
Sensitivity (± 15 %)	500 mV/psi	72.5 mV/kPa											
Maximum Pressure	250 psi	1724 kPa											
Resolution	0.06 mpsi	86.3 dB											
Resonant Frequency	≥ 13 kHz	≥ 13 kHz											
Rise Time	≤ 25 μ sec	≤ 25 μ sec											
Low Frequency Response (-5 %)	5 Hz	5 Hz											
Non-Linearity	≤ 2.0 % FS	≤ 2.0 % FS	[2]										
Environmental			NOTES: [1] For +10 volt output, minimum 24 VDC supply voltage required. Negative 10 volt output may be limited by output bias. [2] Zero-based, least-squares, straight line method. [3] See PCB Declaration of Conformance PS023 for details.										
Acceleration Sensitivity	≤ 0.0005 psi/g	≤ 0.0035 kPa/(m/s ²)											
Temperature Range (Operating)	-100 to 250 °F	-73 to 121 °C											
Temperature Coefficient of Sensitivity	≤ 0.2 %/°F	≤ 0.36 %/°C											
Maximum Flash Temperature	1000 °F	538 °C											
Maximum Shock	1000 g pk	9807 m/s ² pk											
Electrical			SUPPLIED ACCESSORIES: Model 060A10 Clamp nut 1/2-20-2A thd 7/16" hex (1) Model 065A66 Adhesive Mounting Ring (3) Model 160-0242-00 O-ring .250x.375(2-0100) (3)										
Output Polarity (Positive Pressure)	Positive	Positive											
Discharge Time Constant (at room temp)	≥ 0.1 sec	≥ 0.1 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 ohms	≤ 100 ohms											
Output Bias Voltage	7 to 13 VDC	7 to 13 VDC											
Physical			Pressure Sensor, ICP®, Acoustic <table border="1"> <tr> <td>Entered: <i>BLS</i></td> <td>Engineer: <i>J.P.K.</i></td> <td>Sales: <i>DPC</i></td> <td>Approved: <i>MEM</i></td> <td>Spec Number:</td> </tr> <tr> <td>Date: <i>6-30-04</i></td> <td>Date: <i>7, 04</i></td> <td>Date: <i>7/6/04</i></td> <td>Date: <i>7/6/04</i></td> <td>24856</td> </tr> </table>	Entered: <i>BLS</i>	Engineer: <i>J.P.K.</i>	Sales: <i>DPC</i>	Approved: <i>MEM</i>	Spec Number:	Date: <i>6-30-04</i>	Date: <i>7, 04</i>	Date: <i>7/6/04</i>	Date: <i>7/6/04</i>	24856
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Sensing Element	Ceramic	Ceramic											
Housing Material	Stainless Steel	Stainless Steel											
Diaphragm	316L Stainless Steel	316L Stainless Steel											
Sealing	Welded Hermetic	Welded Hermetic											
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack											
Weight	0.11 oz	3.15 gm											
 [3]													
<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>													
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