


Model Number 103B11	ACOUSTIC ICP® PRESSURE SENSOR		Revision: B ECN #: 20470										
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 M061A04 Clamp (2)										
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.										
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 061A04 Sleeve clamp 4-40 cap screw (2) Model 065A66 Adhesive Mounting Ring (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 ohm	≤ 100 ohm											
Output Bias Voltage	7 to 13 VDC	7 to 13 VDC											
Physical			<table border="1"> <tr> <td>Entered: <i>JLS</i></td> <td>Engineer: <i>Y.T.T.</i></td> <td>Sales: <i>DPC</i></td> <td>Approved: <i>MEM</i></td> <td>Spec Number:</td> </tr> <tr> <td>Date: <i>9-17-04</i></td> <td>Date: <i>9-17-04</i></td> <td>Date: <i>9-17-04</i></td> <td>Date: <i>9-19-04</i></td> <td>24846</td> </tr> </table>	Entered: <i>JLS</i>	Engineer: <i>Y.T.T.</i>	Sales: <i>DPC</i>	Approved: <i>MEM</i>	Spec Number:	Date: <i>9-17-04</i>	Date: <i>9-17-04</i>	Date: <i>9-17-04</i>	Date: <i>9-19-04</i>	24846
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Sensing Element	Ceramic	Ceramic											
Housing Material	Stainless Steel	Stainless Steel											
Diaphragm	316L Stainless Steel	316L Stainless Steel											
Sealing	Epoxy	Epoxy											
Electrical Connector	Integral Cable	Integral Cable											
Cable Termination	Pigtail Ends	Pigtail Ends											
Weight	0.115 oz	3.260 gm											
Cable Type	32 AWG stranded wires	32 AWG stranded wires											
Cable Length	15 in	38.1 cm											
<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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 PCB PIEZOTRONICS™ PRESSURE DIVISION 3425 Walden Avenue, Depew, NY 14043			Phone: 716-684-0001 Fax: 716-686-9129 E-Mail: pressure@pcb.com										



Represented in India by

Structural Solutions Pvt Ltd. | Phone: 040 2322 2380 | Email: sales@stsols.com

#4th Floor, Sudheer Tapani Towers, Himayath Nagar, Hyderabad - 500 029