



Model Number <b>102A14</b>	<b>ICP® PRESSURE SENSOR</b>		Revision: F ECN #: 29109										
<b>Performance</b>	<b>ENGLISH</b>	<b>SI</b>	<b>OPTIONAL VERSIONS</b> Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.  <b>M - Metric Mount</b> Supplied Accessory : Model 065A34 Seal ring 0.435" OD x 0.397" ID x 0.030" Cu (3) replaces Model 622A01										
Measurement Range(for ±5V output)	5 kpsi	34,475 kPa											
Useful Overrange(for ± 10V output)	10 kpsi	68,950 kPa	[1]										
Sensitivity(± 15 %)	1.0 mV/psi	0.145 mV/kPa											
Maximum Pressure	15 kpsi	103,425 kPa	[2]										
Resolution	100 mpsi	0.690 kPa											
Resonant Frequency	≥ 250 kHz	≥ 250 kHz											
Rise Time	≤ 2.0 μ sec	≤ 2.0 μ sec											
Low Frequency Response(-5 %)	0.25 Hz	0.25 Hz											
Non-Linearity	≤ 1.0 % FS	≤ 1.0 % FS	[3]										
<b>Environmental</b>			<b>NOTES:</b> [1] Excitation voltage ≥28 volts required. [2] Typical. [3] Zero-based, least-squares, straight line method. [4] See PCB Declaration of Conformance PS023 for details.										
Acceleration Sensitivity	≤ 0.002 psi/g	≤ 0.0014 kPa/(m/s <sup>2</sup> )											
Temperature Range(Operating)	-320 to +212 °F	-196 to +100 °C											
Temperature Coefficient of Sensitivity	≤ 0.06 %/°F	≤ 0.108 %/°C											
Maximum Flash Temperature	3000 °F	1649 °C											
Maximum Shock	20,000 g pk	196,140 m/s <sup>2</sup> pk											
<b>Electrical</b>			<b>SUPPLIED ACCESSORIES:</b> Model 065A44 Seal ring 0.435" OD x 0.377" ID x 0.030" thk Cu (3)										
Output Polarity(Positive Pressure)	Positive	Positive											
Discharge Time Constant(at room temp)	≥ 2 sec	≥ 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	9 to 13 VDC	9 to 13 VDC											
<b>Physical</b>													
Sensing Element	Quartz	Quartz											
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	0.388 oz	11.00 gm											
<table border="1" style="width: 100%;"> <tr> <td>Entered: BLS</td> <td>Engineer: RF</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>6855</td> </tr> </table>				Entered: BLS	Engineer: RF	Sales: RWM	Approved: BM	Spec Number:	Date: 7/16/08	Date: 7/16/08	Date: 7/16/08	Date: 7/16/08	6855
Entered: BLS	Engineer: RF	Sales: RWM	Approved: BM	Spec Number:									
Date: 7/16/08	Date: 7/16/08	Date: 7/16/08	Date: 7/16/08	6855									
 [4]													
<p><i>All specifications are at room temperature unless otherwise specified.</i>  <i>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>3425 Walden Avenue, Depew, NY 14043</p> <p>Phone: 716-684-0001          Fax: 716-686-9129          E-Mail: <a href="mailto:pressure@pcb.com">pressure@pcb.com</a></p>											