


Model Number 102M206	ICP® PRESSURE SENSOR			Revision K ECN #: 31847										
<b>Performance</b> Measurement Range (for ±5V output) Sensitivity (±15 %) Maximum Pressure Resolution Resonant Frequency Rise Time (Reflected) Low Frequency Response (-5 %) Non-Linearity	<b>ENGLISH</b> 50 psi 100 mV/psi 4 kpsi 1 mpsi ≥250 kHz ≤2 μ sec 0.5 Hz ≤1.0 % FS	<b>SI</b> 344.8 kPa 14.503 mV/kPa 27580 kPa 0.0069 kPa ≥250 kHz ≤2 μ sec 0.5 Hz ≤1.0 % FS	[8] [9] [10]	<b>Optional Versions</b> (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)										
<b>Environmental</b> Acceleration Sensitivity Temperature Range (Operating) Temperature Coefficient of Sensitivity Maximum Flash Temperature Maximum Shock Hazardous Area Approval Hazardous Area Approval	<0.002 psi/g -65 to +250 °F ≤0.10 %/°F 3000 °F 20000 g pk ATEX CSA (C-US) NRTL - Canadian Standards Association	<0.0014 kPa/(m/s <sup>2</sup> ) -54 to +121 °C ≤0.18 %/°C 1649 °C 196133 m/s <sup>2</sup> pk ATEX CSA (C-US) NRTL - Canadian Standards Association	[1][2][3] [4][5][6] 7]	<b>Notes</b> [1] Ex ia IIC T4. [2] Ex nL IIC T4. [3] Ex nA IIC T4. [4] AEx nA IIC T4, DIV2 CL1 GR A-D [5] Ex nL IIC T4, DIV2 CL1 GR A-D [6] AEx ia IIC T4, DIV1 CL1 GR A-D [7] Ex ia IIC T4, DIV1 CL1 GR A-D [8] Due to high sensitivity, the static pressure should be applied and removed very slowly. Rate should prevent more than 10 Volt change in output until Output Bias Voltage returns to normal (approximately 15 times discharge time constant). [9] Typical. [10] Zero-based, least-squares, straight line method. [11] Diaphragm with ablative coating. [12] See PCB Declaration of Conformance PS059 for details.										
<b>Electrical</b> Output Polarity (Positive Pressure) Discharge Time Constant (at room temp) Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage Electrical Isolation	Positive ≥1.0 sec 20 to 28 VDC 2 to 20 mA <100 Ohm 8 to 14 VDC 10 <sup>8</sup> Ohm	Positive ≥1.0 sec 20 to 28 VDC 2 to 20 mA <100 Ohm 8 to 14 VDC 10 <sup>8</sup> Ohm												
<b>Physical</b> Sensing Geometry Sensing Element Housing Material Diaphragm Sealing Electrical Connector Weight	Compression Quartz Stainless Steel 316L Stainless Steel Welded Hermetic 10-32 Coaxial Jack 0.6 oz	Compression Quartz Stainless Steel 316L Stainless Steel Welded Hermetic 10-32 Coaxial Jack 17.0 gm	[11]											
 <p data-bbox="121 1360 1075 1458"> <i>All specifications are at room temperature unless otherwise specified.</i>            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.         </p>				<table border="1" data-bbox="1125 1149 2011 1224"> <tr> <td>Entered: LLH</td> <td>Engineer: BAM</td> <td>Sales: RWM</td> <td>Approved: APB</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 11/25/2009</td> <td>Date: 11/14/2009</td> <td>Date: 11/18/2009</td> <td>Date: 11/18/2009</td> <td><b>4739</b></td> </tr> </table> <div data-bbox="1136 1247 1524 1318"> </div> <div data-bbox="1570 1252 1801 1421">           3425 Walden Avenue            Depew, NY 14043            UNITED STATES            Phone: 800-828-8840            Fax: 716-684-0987            E-mail: info@pcb.com            Web site: www.pcb.com         </div>	Entered: LLH	Engineer: BAM	Sales: RWM	Approved: APB	Spec Number:	Date: 11/25/2009	Date: 11/14/2009	Date: 11/18/2009	Date: 11/18/2009	<b>4739</b>
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