



Model Number <b>102B</b>	<b>ICP® PRESSURE SENSOR</b>			Revision: C ECN #: 34651
<b>Performance</b>	<b>ENGLISH</b>	<b>SI</b>		<b>OPTIONAL VERSIONS</b>
Measurement Range(for ±5V output)	5 kpsi	34,500 kPa	[2]	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)	10 kpsi	69,000 kPa		
Sensitivity(± 10 %)	1.0 mV/psi	0.15 mV/kPa		<b>CA</b> - Ablative Coating
Maximum Pressure(static)	15 kpsi	103,000 kPa	[1]	<b>H</b> - Hermetic Seal
Resolution	20 mpsi	0.14 kPa		Sealing                      Welded Hermetic                      Welded Hermetic
Resonant Frequency	≥ 500 kHz	≥ 500 kHz		<b>M</b> - Metric Mount
Rise Time(Reflected)	≤ 1.0 μ sec	≤ 1.0 μ sec	[3]	Supplied Accessory : Model 065A40 Seal ring 0.435" OD x 0.397" ID x 0.030" thk brass (1) replaces Model 065A03
Low Frequency Response(-5 %)	0.001 Hz	0.001 Hz		<b>N</b> - Negative Output Polarity
Non-Linearity	≤ 1.0 % FS	≤ 1.0 % FS		<b>S</b> - Stainless Steel Diaphragm
<b>Environmental</b>				Diaphragm                      316L Stainless Steel                      316L Stainless Steel
Acceleration Sensitivity	≤ 0.002 psi/g	≤ 0.0014 kPa/(m/s <sup>2</sup> )		<b>W</b> - Water Resistant Cable
Temperature Range(Operating)	-100 to +275 °F	-73 to +135 °C	[1]	
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C		
Maximum Flash Temperature	3000 °F	1650 °C		
Maximum Shock	20,000 g pk	196,000 m/s <sup>2</sup> pk		
<b>Electrical</b>				
Output Polarity(Positive Pressure)	Positive	Positive		
Discharge Time Constant(at room temp)	≥ 500 sec	≥ 500 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		
Electrical Isolation	10 <sup>8</sup> ohm	10 <sup>8</sup> ohm		
<b>Physical</b>				
Sensing Geometry	Compression	Compression		
Sensing Element	Quartz	Quartz		
Housing Material	Stainless Steel	Stainless Steel		
Diaphragm	Invar	Invar		
Sealing	Welded Hermetic	Welded Hermetic		
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack		
Weight	0.44 oz	12.5 gm		
<b>NOTES:</b>				
[1] Typical.				
[2] For +10 volt output, minimum 24 VDC supply voltage required. Negative 10 volt output may be limited by output bias.				
[3] Zero-based, least-squares, straight line method.				
[4] See PCB Declaration of Conformance PS023 for details.				
<b>SUPPLIED ACCESSORIES:</b>				
Model 065A03 Seal ring 0.435" OD x 0.377" ID x 0.030" thk brass (3)				
Entered: <i>dmw</i>	Engineer: <i>mgx</i>	Sales: <i>blm</i>	Approved: <i>FB</i>	Spec Number:
Date: <i>12/21/10</i>	Date: <i>12/21/10</i>	Date: <i>12/21/10</i>	Date: <i>12/21/10</i>	<b>40708</b>
 [4]				
<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>			<b>Phone: 716-684-0001</b> <b>Fax: 716-686-9129</b> <b>E-Mail: pressure@pcb.com</b>	
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