

Model Number 102A10	ICP® PRESSURE SENSOR				Revision: T ECN #: 29301										
Performance	ENGLISH	SI		OPTIONAL VERSIONS											
Measurement Range(for ±5V output)	100 psi	690 kPa		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)	200 psi	1380 kPa	[1]												
Sensitivity(± 15 %)	50 mV/psi	7.25 mV/kPa													
Maximum Pressure	15 kpsi	103,425 kPa	[2]	M - Metric Mount											
Resolution	2 mpsi	0.014 kPa	[3]	Supplied Accessory : Model 065A34 Seal ring 0.435" OD x 0.397" ID x 0.030" Cu (3) replaces Model 176M03											
Resonant Frequency	≥ 250 kHz	≥ 250 kHz													
Rise Time	≤ 2.0 μ sec	≤ 2.0 μ sec													
Low Frequency Response(-5 %)	0.50 Hz	0.50 Hz													
Non-Linearity	≤ 1.0 % FS	≤ 1.0 % FS	[4]												
Environmental				NOTES:											
Acceleration Sensitivity	≤ 0.002 psi/g	≤ 0.0014 kPa/(m/s ²)		[1] Excitation voltage ≥28 volts required.											
Temperature Range(Operating)	-320 to +212 °F	-196 to +100 °C		[2] Due to high sensitivity, the static pressure should be applied and removed very slowly.											
Temperature Coefficient of Sensitivity	≤ 0.06 %/°F	≤ 0.108 %/°C		[3] Typical.											
Maximum Flash Temperature	3000 °F	1649 °C		[4] Zero-based, least-squares, straight line method.											
Maximum Shock	20,000 g pk	196,140 m/s ² pk		[5] See PCB Declaration of Conformance PS023 for details.											
Electrical															
Output Polarity(Positive Pressure)	Positive	Positive													
Discharge Time Constant(at room temp)	≥ 1.0 sec	≥ 1.0 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													
Physical															
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													
				SUPPLIED ACCESSORIES:											
				Model 065A44 Seal ring 0.435" OD x 0.377" ID x 0.030" thk Cu (3)											
				<table border="1"> <tr> <td>Entered: <i>JP</i></td> <td>Engineer: <i>NJL</i></td> <td>Sales: <i>TEG</i></td> <td>Approved: <i>EB</i></td> <td>Spec Number:</td> </tr> <tr> <td>Date: <i>8-28-08</i></td> <td>Date: <i>8-28-08</i></td> <td>Date: <i>8-28-08</i></td> <td>Date: <i>8-28-08</i></td> <td>102-1100-80</td> </tr> </table>		Entered: <i>JP</i>	Engineer: <i>NJL</i>	Sales: <i>TEG</i>	Approved: <i>EB</i>	Spec Number:	Date: <i>8-28-08</i>	Date: <i>8-28-08</i>	Date: <i>8-28-08</i>	Date: <i>8-28-08</i>	102-1100-80
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 [5] 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. ICP® is a registered trademark of PCB Group, Inc.			 3425 Walden Avenue, Depew, NY 14043 Phone: 716-684-0001 Fax: 716-686-9129 E-Mail: pressure@pcb.com												