Model Number **102B**	**ICP® PRESSURE SENSOR**	Revision C ECN #: 34651

Performance	**ENGLISH**	**SI**	
Measurement Range (for ±5V output)	5 kpsi	34500 kPa	
Useful Overrange (for ± 10V output)	10 kpsi	69000 kPa	[2]
Sensitivity (±10 %)	1.0 mV/psi	0.15 mV/kPa	
Maximum Pressure (static)	15 kpsi	103000 kPa	
Resolution	20 mpsi	0.14 kPa	[1]
Resonant Frequency	≥500 kHz	≥500 kHz	
Rise Time (Reflected)	≤1.0 µ sec	≤1.0 µ sec	
Low Frequency Response (-5 %)	0.001 Hz	0.001 Hz	
Non-Linearity	≤1.0 % FS	≤1.0 % FS	[3]
Environmental			
Acceleration Sensitivity	≤0.002 psi/g	≤0.0014 kPa/(m/s²)	
Temperature Range (Operating)	-100 to +275 °F	-73 to +135 °C	
Temperature Coefficient of Sensitivity	≤0.03 %/°F	≤0.054 %/°C	[1]
Maximum Flash Temperature	3000 °F	1650 °C	
Maximum Shock	20000 g pk	196000 m/s² pk	
Electrical			
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	10^8 Ohm	10^8 Ohm	
Physical			
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	

CE[4]

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.
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Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

CA - Ablative Coating

H - Hermetic Seal

Sealing	Welded Hermetic	Welded Hermetic

M - Metric Mount
Supplied Accessory: Model 065A40 Seal ring, 0.435" OD x 0.397" ID x 0.030" thk, brass (for Models 061A07 and 061A10 thread adaptors) replaces Model 065A03

N - Negative Output Polarity

S - Stainless Steel Diaphragm

Diaphragm	316L Stainless Steel	316L Stainless Steel

W - Water Resistant Cable

Notes

[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.

Supplied Accessories
065A03 Seal ring 0.435" OD x 0.377" ID x 0.030" thk brass (3)

Entered: DMW	Engineer: NJL	Sales: RWM	Approved: ECB	Spec Number:
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