


Model Number 105C	ICP® PRESSURE SENSOR			Revision: NR ECN #: 48065
Performance	ENGLISH	SI		OPTIONAL VERSIONS Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.
Measurement Range(for ±5V output)	100 psi	690 kPa		
Sensitivity(-40 to +20 %)	50 mV/psi	7.3 mV/kPa		
Maximum Pressure(Total)	7.5 kpsi	51,713 kPa	[1]	
Resolution	5 mpsi	0.035 kPa		
Resonant Frequency	≥ 250 kHz	≥ 250 kHz		
Rise Time(Reflected)	≤ 2.0 μ sec	≤ 2.0 μ sec		
Low Frequency Response(-5 %)	0.5 Hz	0.5 Hz		
Non-Linearity	2.0 % FS	2.0 % FS	[2]	
Environmental				
Acceleration Sensitivity	≤ 0.04 psi/g	≤ 0.028 kPa/(m/s ²)		
Temperature Range(Operating)	-100 to +250 °F	-73 to +121 °C		
Temperature Coefficient of Sensitivity	≤ 0.09 %/°F	≤ 0.162 %/°C		
Maximum Flash Temperature	3000 °F	1649 °C		
Maximum Shock	5000 g pk	49,035 m/s ² pk		
Electrical				
Output Polarity(Positive Pressure)	Positive	Positive		
Discharge Time Constant(at room temp)	>1.0 sec	>1.0 sec		
Excitation Voltage	22 to 30 VDC	22 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 Geometry	Compression	Compression		
Sensing Element	Quartz	Quartz		
Housing Material	Stainless Steel	Stainless Steel		
Diaphragm	17-4 Stainless Steel	17-4 Stainless Steel		
Sealing	Epoxy	Epoxy		
Electrical Connector	Integral Twisted Pair	Integral Twisted Pair		
Electrical Connections(Red)	Signal / Power	Signal / Power		
Electrical Connections(White)	Ground	Ground		
Weight(with cable)	.15 oz	0.43 gm		
NOTES:				
[1] 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).				
[2] Zero-based, least-squares, straight line method.				
[3] See PCB Declaration of Conformance PS023 for details.				
SUPPLIED ACCESSORIES:				
Model 065A10 Seal ring 0.138" OD x 0.101" ID x 0.022" thk brass (3)				
Entered: LK	Engineer: NJL	Sales: RWM	Approved: RPF	Spec Number:
Date: 3/28/2018	Date: 3/28/2018	Date: 3/28/2018	Date: 3/28/2018	67007
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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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