Model Number 102M206	ICP® PRESSURE SENSOR	Revision: P ECN #: 56207

Performance	ENGLISH	SI	
Measurement Range(for ±5V output)	50 psi	344.8 kPa	
Sensitivity(± 15 %)	100 mV/psi	14.503 mV/kPa	
Maximum Pressure	8 kpsi	55,160 kPa	[1]
Resolution	0.1 mpsi	0.00069 kPa	[2]
Resonant Frequency	≥ 250 kHz	≥ 250 kHz	
Rise Time(Reflected)	≤ 2 µ sec	≤ 2 µ sec	
Low Frequency Response(- 5 %)	0.5 Hz	0.5 Hz	
Non-Linearity	≤ 1.0 % FS	≤ 1.0 % FS	[3]
Environmental			
Acceleration Sensitivity	0.002 psi/g	0.0014 kPa/(m/s^2)	[2]
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C	
Maximum Flash Temperature	3,000 °F	1,649 °C	
Maximum Vibration	2,000 g pk	19,600 m/s^2 pk	
Maximum Shock	20,000 g pk	196,000 m/s^2 pk	
Hazardous Area Approval	See Manual	See Manual	
Electrical			
Output Polarity(Positive Pressure)	Positive	Positive	
Discharge Time Constant(at room temp)	≥ 1.0 sec	≥ 1.0 sec	
Excitation Voltage	20 to 28 VDC	20 to 28 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	316L Stainless Steel	316L Stainless Steel	[4]
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Weight	0.6 oz	17.0 gm	

CE

UK CA [5]

Intertek [6]

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 the standard model except where noted below. More than one option may be used.

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]Typical.
[3]Zero-based, least-squares, straight line method.
[4]Diaphragm with ablative coating.
[5]See PCB Declaration of Conformance PS059 for details.
[6]See Model's "Instructions For Use" (IFU) for North American Conformity and Certification Statements.

SUPPLIED ACCESSORIES:

Model PCS-1AZ Sensitivity calibration at 100% and 10% of sensor range

Entered: ND	Engineer: RPF	Sales: DPC	Approved: RPF	Spec Number:
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