

	ENGLISH	SI
<b>Performance</b>		
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]
<b>Environmental</b>		
Acceleration Sensitivity	0.002 psi/g	0.0014 kPa/(m/s <sup>2</sup> ) [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 <sup>2</sup> pk
Maximum Shock	20,000 g pk	196,000 m/s <sup>2</sup> pk
Hazardous Area Approval	See Manual	See Manual
<b>Electrical</b>		
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 <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	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

**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.

**SUPPLIED ACCESSORIES:**

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

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All specifications are at room temperature unless otherwise specified.  
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