

	ENGLISH	SI	
Performance			
Measurement Range(for ±5V output)	3,500 psi	24,133 kPa	[1]
Sensitivity(± 15 %)	1.5 mV/psi	0.217 mV/kPa	
Maximum Pressure(Total)	10,000 psi	68,950 kPa	
Resolution	0.02 psi	0.14 kPa	[2]
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	≤ 1.0 % FS	≤ 1.0 % FS	[3]
Environmental			
Acceleration Sensitivity	0.002 psi/g	0.0014 kPa/(m/s ²)	[2]
Temperature Range(Operating)	-320 to +212 °F	-196 to +100 °C	
Temperature Coefficient of Sensitivity	≤ 0.06 %/°F	≤ 0.108 %/°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	
Electrical			
Discharge Time Constant(at room temp)	≥ 1.0 sec	≥ 1.0 sec	
Excitation Voltage	15 to 30 VDC	15 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	< 500 Ohm	< 500 Ohm	
Output Bias Voltage	3 to 8 VDC	3 to 8 VDC	
Electrical Isolation	> 10 MOhm	> 10 MOhm	
Physical			
Sensing Geometry	Compression	Compression	
Sensing Element	Quartz	Quartz	
Housing Material(probe)	304L/316L Stainless Steel	304L/316L Stainless Steel	
Thread Adaptor Material	Inconel 718	Inconel 718	
Diaphragm	316L Stainless Steel	316L Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Weight	0.92 oz	26 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]-5V output may be limited by the output bias.
 [2]Typical.
 [3]Zero-based, least-squares, straight line method.
 [4]See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model PCS-1 Calibration of dynamic pressure sensors at 100% full scale, max 15 kpsi range.
 Model PCS-10AA Single point sensitivity coefficient at sensor minimum operating temperature (-320°F / -196°C limit)

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All specifications are at room temperature unless otherwise specified.
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