

	ENGLISH	SI	
Performance			
Measurement Range(for ±5V output)	500 psi	3,447 kPa	[1]
Useful Overrange(for ± 10V output)	1,000 psi	6,895 kPa	[2]
Sensitivity(± 15 %)	10 mV/psi	1.45 mV/kPa	
Maximum Pressure(step)	5,000 psi	34,500 kPa	
Maximum Pressure(Total)	7.5 kpsi	51,711 kPa	[3]
Resolution	10 mpsi	0.0689 kPa	[4]
Resonant Frequency	≥ 250 kHz	≥ 250 kHz	
Rise Time(Reflected)	≤ 2.0 μ sec	≤ 2.0 μ sec	
Non-Linearity	≤ 1.0 % FS	≤ 1.0 % FS	[5]
Environmental			
Acceleration Sensitivity	0.002 psi/g	0.0014 kPa/(m/s ²)	[4]
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	1648.89 °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			
Output Polarity(Positive Pressure)	Positive	Positive	
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	
Physical			
Housing Material	304L/316L Stainless Steel	304L/316L Stainless Steel	
Thread Adaptor Material	Vascomax C-300	Vascomax C-300	
Diaphragm	316L Stainless Steel	316L Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Weight	0.9 oz	25 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]For +10 volt output, minimum 24 VDC supply voltage required. Negative 10 volt output may be limited by output bias.
 [3]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).
 [4]Typical.
 [5]Zero-based, least-squares, straight line method.
 [6]See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model PCS-10AA Single point sensitivity coefficient at sensor minimum operating temperature (-320°F / -196°C limit)
 Model PCS-1AZ Sensitivity calibration at 100% and 10% of sensor range

Entered: ND	Engineer: AJA	Sales: RWM	Approved: RPF	Spec Number:
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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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