

	ENGLISH	SI	
<b>Performance</b>			
Measurement Range(for ±5V output)	5,000 psi	34,475 kPa	
Useful Overrange(for ± 10V output)	10,000 psi	68,950 kPa	[1]
Sensitivity(± 0.1 mV/psi)	1.0 mV/psi	0.145 mV/kPa	
Maximum Pressure	15,000 psi	103,425 kPa	
Resolution	0.1 psi	0.69 kPa	[2]
Resonant Frequency	≥ 400 kHz	≥ 400 kHz	
Rise Time(Reflected)	≤ 1.5 μ sec	≤ 1.5 μ sec	
Low Frequency Response(- 5 %)	0.001 Hz	0.001 Hz	
Non-Linearity	≤ 2.0 % FS	≤ 2.0 % FS	[3]
<b>Environmental</b>			
Acceleration Sensitivity	0.002 psi/g	0.0014 kPa/(m/s <sup>2</sup> )	[2]
Temperature Range(Operating)	-100 to +275 °F	-73 to +135 °C	
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ .054 %/°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	
<b>Electrical</b>			
Output Polarity(Positive Pressure)	Positive	Positive	
Discharge Time Constant(at room temp)	≥ 500 sec	≥ 500 sec	
Excitation Voltage	20 to 30 VDC	20 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	
<b>Physical</b>			
Sensing Geometry	Compression	Compression	
Sensing Element	Quartz	Quartz	
Housing Material	17-4 Stainless Steel	17-4 Stainless Steel	
Diaphragm	Invar	Invar	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Weight	0.21 oz	6.0 gm	

<b>OPTIONAL VERSIONS</b>		
Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.		
<b>CA</b> - Ablative Coating		[5]
<b>E</b> - Emralon coating		[6]
Coating	Emralon	Emralon
Electrical Isolation	10 <sup>8</sup> Ohm	10 <sup>8</sup> Ohm
Supplied Accessory: Model 065A08 Isolation ring 0.250" OD x 0.218" ID x 0.027" thk anodized aluminum (3)		
Supplied Accessory: Model 065A22 Isolation Seal, .250" OD x .218" ID x .015", Torlon or Vespel (3) [5][6]		
<b>J</b> - Ground Isolated Electrical Isolation(50 V)	10 <sup>8</sup> Ohm	10 <sup>8</sup> Ohm [6]
<b>N</b> - Negative Output Polarity		[6]
<b>S</b> - Stainless Steel Diaphragm Diaphragm	316L Stainless Steel	316L Stainless Steel [6][7]
<b>W</b> - Water Resistant Cable		[6][7]
<b>WM</b> - Water Resistant Cable		[6][7]

**NOTES:**

[1] For +10 volt output, minimum 24 VDC supply voltage required. Negative 10 volt output may be limited by output bias.

[2] Typical.

[3] Zero-based, least-squares, straight line method.

[4] See PCB Declaration of Conformance PS023 for details.

[5] Used with optional mounting adaptor.

[6] For sensor mounted in thread adaptor, see adaptor installation drawing for supplied accessories and pressure limitations.

[7] Clamp nut installed prior to cable attachment

**SUPPLIED ACCESSORIES:**

Model 060A03 Clamp nut, 5/16-24-2A thd, 1/4" hex, stainless steel (1)

Model 060A05 Clamp nut M7 x 0.75-6g thd (1)

Model 065A02 Seal ring, sensor flush mount, 0.248" OD x 0.219" ID x 0.015" thk, brass (3)

Model 065A05 Seal sleeve sensor recess mount 0.248" OD x 0.221" ID x 0.240" thk 17-4 (1)

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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