

	ENGLISH	SI
Performance		
Measurement Range(for ±5V output)	100 psi	690 kPa
Useful Overrange(for ± 10V output)	200 psi	1,379 kPa
Sensitivity(± 20 %)	50 mV/psi	7.3 mV/kPa
Maximum Pressure(step)	1 kpsi	6,900 kPa
Maximum Pressure(Total)	15,000 psi	103,421 kPa
Resolution	0.4 mpsi	0.0028 kPa
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
Environmental		
Acceleration Sensitivity	0.002 psi/g	0.0014 kPa/(m/s ²)
Temperature Range(Operating)	-100 to +275 °F	-73 to +135 °C
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C
Maximum Flash Temperature	3,000 °F	1,650 °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	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
Electrical Isolation	≥ 10 ⁸ Ohm	≥ 10 ⁸ Ohm
Physical		
Sensing Geometry	Compression	Compression
Sensing Element	Quartz	Quartz
Housing Material	17-4 / 304L Stainless Steel	17-4 / 304L Stainless Steel
Thread Adaptor 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	0.39 oz	11.0 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.

CA - Ablative Coating

M - Metric Mount
Supplied Accessory: Model 065A42 Floating clamp nut and thread seal, M10 x 1.0 thd. (1) replaces Model 065B01

N - Negative Output Polarity

S - Stainless Steel Diaphragm

W - Water Resistant Cable

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.

SUPPLIED ACCESSORIES:

Model 065B01 Floating clamp nut and thread seal 3/8-24 thd (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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