

| | ENGLISH | SI | |
|--|---------------------------|--------------------------------|-----|
| Performance | | | |
| Measurement Range(for ±5V output) | 100 psi | 690 kPa | |
| Useful Overrange(for ± 10V output) | 200 psi | 1,380 kPa | [1] |
| Sensitivity(± 15 %) | 50 mV/psi | 7.25 mV/kPa | |
| Maximum Pressure(step) | 1,000 psi | 6,900 kPa | |
| Maximum Pressure(Total) | 15 kpsi | 103,425 kPa | [2] |
| Resolution | 2 mpsi | 0.014 kPa | [3] |
| Resonant Frequency | ≥ 250 kHz | ≥ 250 kHz | |
| Rise Time | ≤ 2.0 μ sec | ≤ 2.0 μ sec | |
| Low Frequency Response(- 5 %) | 0.50 Hz | 0.50 Hz | |
| Non-Linearity | ≤ 1.0 % FS | ≤ 1.0 % FS | [4] |
| Environmental | | | |
| Acceleration Sensitivity | 0.002 psi/g | 0.0014 kPa/(m/s ²) | [3] |
| Temperature Range(Operating) | -400 to +212 °F | -240 to +100 °C | |
| Temperature Coefficient of Sensitivity | ≤ 0.06 %/°F | ≤ 0.108 %/°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 | ≥ 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 | |
| Physical | | | |
| Sensing Element | Quartz | Quartz | |
| Housing Material | 304L/316L Stainless Steel | 304L/316L Stainless Steel | |
| Thread Adaptor Material | 316L Stainless Steel | 316L Stainless Steel | |
| Diaphragm | 316L Stainless Steel | 316L Stainless Steel | |
| Sealing | Welded Hermetic | Welded Hermetic | |
| Electrical Connector | 10-32 Coaxial Jack | 10-32 Coaxial Jack | |
| Weight | 0.388 oz | 11.00 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.

M - Metric Mount
 Supplied Accessory: Model 065A34 Seal ring 0.435" OD x 0.397" ID x 0.030" Cu (3) replaces Model 065A44

NOTES:

[1]Excitation voltage >=28 volts required.
 [2]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).
 [3]Typical.
 [4]Zero-based, least-squares, straight line method.
 [5]See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model 065A44 Seal ring 0.435" OD x 0.377" ID x 0.030" thk Cu (3)
 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

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|------------------|------------------|------------------|------------------|--------------|
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All specifications are at room temperature unless otherwise specified.
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