

| | ENGLISH | SI | |
|---------------------------------------|-----------------------|-------------------------------|-----|
| Performance | | | |
| Measurement Range(for ±5V output) | 50 psi | 344.8 kPa | |
| Sensitivity(± 15 %) | 100 mV/psi | 14.5037 mV/kPa | |
| Maximum Pressure | 8 kpsi | 55.16 MPa | [1] |
| Resolution | 0.5 mpsi | 0.003 kPa | [2] |
| Resonant Frequency | ≥ 60 kHz | ≥ 60 kHz | |
| Rise Time(Reflected) | ≤ 4 μ sec | ≤ 4 μ sec | |
| Low Frequency Response(- 5 %) | 0.5 Hz | 0.5 Hz | |
| Non-Linearity | ≤ 2.0 % FS | ≤ 2.0 % FS | [3] |
| Environmental | | | |
| Acceleration Sensitivity | 0.025 psi/g | 0.018 kPa/(m/s ²) | [2] |
| Temperature Range(Operating) | -65 to +250 °F | -54 to +121 °C | |
| Electrical | | | |
| Output Polarity(Positive Pressure) | Positive | Positive | |
| Discharge Time Constant(at room temp) | ≥ 1.0 sec | ≥ 1.0 sec | |
| Excitation Voltage | 22 to 28 VDC | 22 to 28 VDC | |
| Constant Current Excitation | 2 to 20 mA | 2 to 20 mA | |
| Output Impedance | < 100 Ohm | < 100 Ohm | |
| Output Bias Voltage | 10 to 15 VDC | 10 to 15 VDC | |
| Electrical Isolation | ≥ 10 ⁸ Ohm | ≥ 10 ⁸ Ohm | |
| Physical | | | |
| Sensing Geometry | Compression | Compression | |
| Sensing Element | Quartz | Quartz | |
| Housing Material | 316L Stainless Steel | 316L Stainless Steel | |
| Diaphragm | 316L Stainless Steel | 316L Stainless Steel | |
| Sealing | Welded Hermetic | Welded Hermetic | |
| Electrical Connector | 2-Pin MIL-C-5015 | 2-Pin MIL-C-5015 | |
| Weight | 2.7 oz | 75.6 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]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).

[2]Typical.

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

[4]See PCB Declaration of Conformance PS059 for details.

SUPPLIED ACCESSORIES:

Model PCS-1 Calibration of dynamic pressure sensors at 100% full scale, max 15 kpsi range.

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| 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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