

|  | ENGLISH         | SI             |     |
|--|-----------------|----------------|-----|
| <b>Performance</b>                     |                 |                |     |
| Measurement Range(for ±5V output)      | 250 psi         | 1,724 kPa      |     |
| Useful Overrange(for ± 10V output)     | 500 psi         | 3,447 kpsi     | [1] |
| Sensitivity(± 15 %)                    | 20 mV/psi       | 2.90 mV/kPa    |     |
| Maximum Pressure                       | 5 kpsi          | 34,474 kPa     |     |
| Resolution                             | .7 mpsi         | .005 kPa       | [2] |
| Resonant Frequency                     | ≥ 400 kHz       | ≥ 400 kHz      |     |
| Rise Time(Incident)                    | ≤ 6.5 μ sec     | ≤ 6.5 μ sec    |     |
| Non-Linearity                          | ≤ 1.0 % FS      | ≤ 1.0 % FS     | [3] |
| <b>Environmental</b>                   |                 |                |     |
| Temperature Range(Operating)           | -100 to +275 °F | -73 to +135 °C |     |
| Temperature Coefficient of Sensitivity | ≤ 0.05 %/°F     | ≤ 0.090 %/°C   |     |
| <b>Electrical</b>                      |                 |                |     |
| Discharge Time Constant(at room temp)  | ≥ 0.2 sec       | ≥ 0.2 sec      |     |
| Excitation Voltage                     | 20 to 30 VDC    | 20 to 30 VDC   |     |
| Constant Current Excitation            | 2 to 20 mA      | 2 to 20 mA     |     |
| Output Impedance                       | ≤ 200 Ohm       | ≤ 200 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                       | Aluminum        | Aluminum       |     |
| Diaphragm                              | Invar           | Invar          |     |
| Sealing                                | Epoxy           | Epoxy          |     |
| Electrical Connector                   | BNC Jack        | BNC Jack       |     |
| Weight                                 | 12.4 oz         | 352 gm         | [2] |

**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] For +10 volt output, minimum 26 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 PCS-1AZ Sensitivity calibration at 100% and 10% of sensor range

|                  |                  |                  |                  |              |
|------------------|------------------|------------------|------------------|--------------|
| Entered: ND      | Engineer: RPF    | Sales: MV        | 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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