MODEL 120

FEATURES:

• Rated to +400 °F (+204 °C) and 30K PSI (2,068 BAR)
• Compact design, ½" diameter
• Welded, hermetic construction
  Pressure and temperature outputs
  10mV/V output

APPLICATIONS:

Oil & gas exploration and production
• MWD, PWD & LWD tools
  Geothermal
  Wellhead monitoring
  Coil tubing

PRODUCT OVERVIEW:

The Model 120 from GP:50 is a high-pressure, high-temperature pressure sensor for oil & gas downhole tool applications. Its highly compact and corrosion-resistant design allows for ease of installation within challenging exploration environments, particularly where space is at a premium. The sensor is designed to withstand high shock and vibration inputs, with further inclusion of an optional temperature output for expanded measurement capabilities.

FIELD OPTIONS:

Temperature output
  Optional electrical connections
• Alternate wetted materials and pressure ports
  Custom design available
DIMENSIONAL DRAWING
All dimensions are in inches (mm)

<table>
<thead>
<tr>
<th>PIN / COLOR</th>
<th>MODEL 120</th>
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</thead>
<tbody>
<tr>
<td>1 / RED</td>
<td>+EXE</td>
</tr>
<tr>
<td>2 / BLK</td>
<td>+SIG</td>
</tr>
<tr>
<td>3 / BLUE</td>
<td>-SIG</td>
</tr>
<tr>
<td>4 / WHT</td>
<td>-EXE</td>
</tr>
<tr>
<td>5</td>
<td>N/C</td>
</tr>
<tr>
<td>6</td>
<td>N/C</td>
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REFERENCE SPECIFICATIONS

**ELECTRICAL**
- Excitation Voltage: 5.0 to 15 Vdc
- Output Signal: 100mV/V at 10Vdc
- Load Impedance: 50K Ω
- Bridge Resistance: 4000 Ω typical
- Connection: Solder connection via J-Hooks

**MATERIALS OF CONSTRUCTION**
- Titanium (Inconel 718 optional)

**STATIC ACCURACY (BFSL) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)**
±0.25% FSO standard, 0.1% available (consult factory)

**MECHANICAL**
- Process connection: AS4395-03
- Proof Pressure: 1.5X range
- Burst Pressure: 3.0X range on ranges less than 25K PSI (1,724 BAR)

**PRESSURE RANGES**
- 0 to 250 PSI thru 0 to 30K PSI (345 thru 2,068 BAR)

**THERMAL SPECIFICATION**
- Compensated: -65 °F to +392 °F (-54 °C to +200 °C)
- Operating: -320 °F to +410 °F (-195 °C to +210 °C)
- Zero: ±0.5% FSO/100 °F
- Span: ±1.5% FSO/100 °F

Standard configurations shown. Please consult factory for other options.