**Model 1000HP Automotive-Aerospace Pressure Transducer**

- Highest performance transducer over temperature. Zero thermal error/drift
- Units are individually calibrated from -40°C to 85°C for pressures ranging from 0-10” WC to 40,000 PSI
- 0.04% & 0.02% BFSL (STANDARD) – Contact Factory for other options
- 16 Point Calibration with Certificate (STANDARD)

- Unparalleled thermal stability from -40°C to 100°C
- Transducer maintains stated accuracy throughout entire temperature compensated range
- Duplicate any customer process and electrical connector for transparent replacement
- Push-Button Function Optional

"Spectre’s 1000HP Automotive-Aerospace Pressure Transducer is the World’s Top Performing Transmitter for Higher Accuracy Applications...."

**FEATURES:**

- Proprietary Fused Bond Sensor
- Sensor Wetted Material Machined from Stainless Steel Bar Stock (No Welds)
- RFI/EMI Protection
- Digital Correction for non-linearity and inaccuracies within the sensing element
- Output Options: 4-20 mA, 0-5 V, 0-10 V (custom on request)
- Suitable for high shock and vibration applications

**REFERENCE DIMENSIONS:**
Model 1000HP Automotive-Aerospace Pressure Transducer

Ordering Guide: 1000HP-A-(0-150PSI)-2-D-04-EC2-PB

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**Performance @ 25 °C**
- Accuracy: < ± 0.05% BFSL to 0.02% BFSL
- Stability: (2 year): < ± 0.10% FSO, Typical
- Overpressure Protection: 2X Rated Pressure
- Burst Pressure: 5X Minimum
- Pressure Cycles: > 50 Million
- Temperature Range: -40 °C to 100°C
- Response: ≤ 2 ms to 90%

**Electrical Data**
- Excitation: 13-36 VDC
- Current Consumption: < 5 mA
- Zero Offset: ≤ ±0.1% of FS
- Span Tolerance: ≤ ±0.1% of FS
- Output Load: > 10K Ω

**Environmental Data**

<table>
<thead>
<tr>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating: -40°C to 85°C</td>
</tr>
<tr>
<td>Storage: -50°C to 125°C</td>
</tr>
</tbody>
</table>

**Thermal Limits**
- Compensated Range: -40°C to 85°C
- Thermal Effect Zero: Negligible
- Thermal Effect Span: Negligible

**Physical Data**

<table>
<thead>
<tr>
<th>Sensor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetted Material: 316 SS</td>
</tr>
<tr>
<td>Housing: 316 SS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Connections</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure: ¼&quot; MNPT, SAE-4, F-250 C (Others on request)</td>
</tr>
<tr>
<td>Electrical: Cable, DIN, Bendix, M12 (Others on request)</td>
</tr>
</tbody>
</table>

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4 Thermal changes will not affect overall accuracy