Model EX46HP Explosion Proof Transducer

- Highest performance transducer over temperature. Zero thermal error/drift
- Units are individually calibrated from -40°C to 85°C for pressures ranging from 0-5” WC to 40,000 PSI
- 0.05% & 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

**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

**CERTIFICATIONS**

<table>
<thead>
<tr>
<th>Class</th>
<th>Div.</th>
<th>Groups</th>
<th>UL Standard</th>
<th>CSA Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>I,</td>
<td>1,</td>
<td>B, C, D</td>
<td>1203</td>
<td>C22.2 NO. 30</td>
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<tr>
<td>II,</td>
<td>2,</td>
<td>E, F, G</td>
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<tr>
<td>III</td>
<td></td>
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**STANDARDS**

- Type 4X; 7-B, C, D; 9-E, F, G
- NEMA Compliance
Model EX46HP Explosion Proof Transducer

Ordering Guide: EX46HP-A-(0-100PSI)-4-D-05-ECEx

<table>
<thead>
<tr>
<th>A</th>
<th>(0-150)</th>
<th>2</th>
<th>D</th>
<th>05</th>
<th>ECEx</th>
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</thead>
<tbody>
<tr>
<td>PRESSURE PORT</td>
<td>RANGE 1</td>
<td>TYPE</td>
<td>PRESSURE OUTPUT</td>
<td>ACCURACY (BFSL)</td>
<td>CONNECTOR</td>
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<tr>
<td>A = ¼” MNPT</td>
<td>PSI</td>
<td>1 = ABSOLUTE</td>
<td>D = 4-20 mA</td>
<td>05 = 0.05%</td>
<td>EC1 = 36” PIGTAIL</td>
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<tr>
<td>B = SAE-4 MALE</td>
<td>BAR</td>
<td>2 = GAUGE</td>
<td>E = 0-5 VDC</td>
<td>02 = 0.02%</td>
<td>ECEx = ½” FNPT WITH TERMINAL STRIP</td>
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<tr>
<td>C = OTHER</td>
<td>kPA</td>
<td>3 = VACUUM</td>
<td>F = 0-10 VDC</td>
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<tr>
<td>E = F-250 C</td>
<td>INCHES WC</td>
<td>4 = SEALED</td>
<td>M = mV/V</td>
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<tr>
<td>TORR</td>
<td>5 = COMPOUND</td>
<td></td>
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<tr>
<td>6 = OTHER</td>
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</tbody>
</table>

*OTHER RANGES AVAILABLE, CONSULT FACTORY

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

Temperature

Operating: -40°C to 85°C
Storage: -50°C to 125°C

Thermal Limits

Compensated Range: -40°C to 85°C
Thermal Effect Zero: Negligible 2
Thermal Effect Span: Negligible 2

Physical Data

Sensor
Wetted Material: 316 SS
Housing: 316 SS
Connections
Pressure: ¼” MNPT, SAE-4, F-250 C

2 THERMAL CHANGES WILL NOT AFFECT OVERALL ACCURACY

Reference Dimensions: