Model 1500 Pressure and Temperature Transducer

The enhanced Model 1500 Pressure and Temperature Transducer now has dual 4-20 mADC and 1-5 Vdc temperature output capabilities.

FEATURES:
- Proprietary Fused Bond Sensor
- Sensor Wetted Material Machined from Stainless Steel Bar Stock (No Welds)
- RFI/EMI Protection on every unit
- Unparalleled long-term stability
- External Zero & Span Controls available

REFERENCE DIMENSIONS:

- Standard Pressure Outputs: 4-20 mADC, 0-10 VDC, 0-5 VDC, mV/V
- Temperature Outputs: 100 Ω RTD, J or K type thermocouple – contact factory for dual output options
- 0.5% & 0.2% BFSL (Standard) - 0.1% BFSL includes 16 Point Calibration with Certificate
- Standard ranges from 0-2.5 psi to 0-40000 psi
- Duplicate any customer’s process and electrical connection for transparent replacement

Model 1500 REV_D 01/26/16
# Model 1500 Pressure and Temperature Transducer

Ordering Guide: 1500-A-(0-300PSI)-2-D-3J-5-EC1-OP5

<table>
<thead>
<tr>
<th>A</th>
<th>(0-300)</th>
<th>2</th>
<th>D</th>
<th>3J</th>
<th>5</th>
<th>EC1</th>
<th>CONNECTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRESSURE PORT</td>
<td>RANGE 1</td>
<td>TYPE</td>
<td>PRESSURE OUTPUT</td>
<td>TEMP OUTPUT</td>
<td>ACCURACY (BFSL)</td>
<td>CONNECTOR</td>
<td></td>
</tr>
<tr>
<td>A = ¼” MNPT</td>
<td>PSI</td>
<td>1 = ABSOLUTE</td>
<td>D = 4-20 mA</td>
<td>3 = J OR K TC</td>
<td>5 = 0.5%</td>
<td>EC1 = 36” PIGTAIL</td>
<td></td>
</tr>
<tr>
<td>B = SAE-4 MALE</td>
<td>BAR</td>
<td>2 = GAUGE</td>
<td>E = 0-5 VDC</td>
<td>4 = 100 Ω RTD</td>
<td>25 = 0.25%</td>
<td>EC2 = LARGE DIN 43650, FORM A</td>
<td></td>
</tr>
<tr>
<td>C = OTHER</td>
<td>kPA</td>
<td>3 = VACUUM</td>
<td>F = 0-10 VDC</td>
<td>5 = OTHER</td>
<td>1 = 0.1%</td>
<td>EC3 = MINI DIN 4365, FORM C</td>
<td></td>
</tr>
<tr>
<td>D = 1/8” MNPT</td>
<td>INCHES WC</td>
<td>4 = SEALED</td>
<td>M = mV/V</td>
<td>6 = OTHER</td>
<td></td>
<td>EC4 = BENDIX PTIH-10-6P</td>
<td></td>
</tr>
<tr>
<td>E = F-250C</td>
<td>TORR</td>
<td>5 = COMPOUND</td>
<td></td>
<td></td>
<td></td>
<td>ECT = TURCK M12</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ECX = OTHER</td>
<td></td>
</tr>
</tbody>
</table>

1 OTHER RANGES AVAILABLE, CONSULT FACTORY
2 CUSTOM PINOUTS/WIRING AVAILABLE
3 PVC STANDARD CABLE JACKET – OTHERS AVAILABLE ON REQUEST
4 PLATINUM 2-WIRE

### OPTIONS

<table>
<thead>
<tr>
<th>OP5</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPTIONS</td>
</tr>
<tr>
<td>OP1 = NIST CALIBRATION WITH CERTIFICATE</td>
</tr>
<tr>
<td>OP5 = ZERO &amp; SPAN CONTROLS</td>
</tr>
<tr>
<td>OP8 = INTERNAL SHUNT CAL RESISTOR (80% FS)</td>
</tr>
<tr>
<td>OPX = OTHER (SPECIFY)</td>
</tr>
</tbody>
</table>

### Performance @ 25 °C

- Accuracy: < ± 0.5% BFSL to 0.1% BFSL
- Stability: (2 year): <± 0.10% FSO, Typical
- Overpressure Protection: 2X Rated Pressure
- Burst Pressure: 5X or 20000 PSI (lesser)
- Pressure Cycles: > 50 Million
- Temperature Range: -40°C to +85°C
- Response: ≤ 5 ms to 90%

### Environmental Data

#### Temperature

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

#### Thermal Limits

- Compensated Range: 0°C to 85°C
- Thermal Effect Zero: ≤ ±1.5% FS
- Thermal Effect Span: ≤ ±1.5% FS

### Electrical Data

#### Excitation

- Ex: 9-36 VDC (4-20 mA), 13-36 VDC (0-5V, 0-10V)

#### Current Consumption

- < 5 mADC

#### Zero Offset

- ≤ ± 0.25% of FS

#### Span Tolerance

- ≤±1.0% of FS

#### Output Load

- >10K Ω

#### Range Cal Signal

- Internal Resistor 100%

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**MODEL 1500 REV_D**

01/26/16

*Accuracy includes non-linearity, hysteresis and non-repeatability*