The TDD30 Series
Low Cost OEM Pressure Transducer

APPLICATIONS
• HVAC
• Commercial Refrigeration
• Food and Beverage Industry
• Pumps and Compressors
• Hydraulics

DESCRIPTION
The TDD30 Series Pressure Transducer utilizes piezoresistance MEMS technology in a brass, stainless steel or aluminum body. It is compact in size, has long term stability, ease of installation and is very economical as well as reliable. The TDD30 sets a new price-performance standard for low cost, high volume commercial and industrial applications.

FEATURES
• Vac-750 psi Range
• Various Outputs
• Compact Design
• Brass, Stainless steel or Aluminum Housing
• Low Cost
• Industrial 0.5% Accuracy
• Custom Outputs and Ranges Available
• OEM Tested and Approved

ELECTRICAL CONNECTIONS

<table>
<thead>
<tr>
<th>Signal</th>
<th>Function</th>
<th>Color</th>
<th>Pin</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-5V</td>
<td>Com</td>
<td>Black</td>
<td>A</td>
</tr>
<tr>
<td>0-10V</td>
<td>Supply +</td>
<td>Red</td>
<td>B</td>
</tr>
<tr>
<td>0.5-4.5V</td>
<td>Output +</td>
<td>White</td>
<td>C</td>
</tr>
<tr>
<td>4-20mA</td>
<td>Output</td>
<td>Black</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td>Supply +</td>
<td>Red</td>
<td>B</td>
</tr>
</tbody>
</table>

3 pin Packard
SPECIFICATIONS

**Performance**
- **Accuracy**: 0.5% FS, BFSL
- **Stability**: 0.2% FS
- **TEB / Total Error Band**: 2% FS
- **Compensated Temperature**: -20 to 125 °C (-4 to 257 °F)
- **Operating Temperature**: -40 to 125 °C (-40 to 257 °F)
- **Storage Temperature**: -40 to 150 °C (-40 to 302 °C)
- **Current Consumption**: Approx 24mA for 0-5 & 0-10 voltage output, 8mA for ratiometric output, 24mA for current output (4-20mA)
- **Zero and Span Offset Tolerance**: 1%

**Shock**: 50g, 11ms, 1/2 sign

**Vibration**: 5g peak from 33 Hz

**Mechanical Configuration**
- **Pressure Port**: 1/4 NPT (standard) *
- **Electrical Connection**: 3 pin Packard *
- **Ingress Rating**: IP66 with T-Direct standard Packard cable
- **Housing**: Brass, 303 stainless steel or aluminum
- **Diaphragm**: MEMS
- **Sealing Material**: Neoprene *
- **Approvals**: CE

**Input**
- **Supply Voltage / (Output)**: 9-33 VDC (0-5V, 4-20mA)
- **Pressure Range**: 5 VDC (0.5-4.5V)
- **Proof Pressure**: 12-33 VDC (0-10V)
- **Burst Pressure**: Vac to 750 psi
- **Fatigue Life**: 2 x full scale or 1500psi max
- **Fatigue Life**: 3 x full scale or 2500 psi max
- **Fatigue Life**: More than 10 million cycles

For best performance use shielded cables. Mating connectors and cable assemblies sold separately.

* Consult factory for further OEM options.

**DIMENSIONS**

- **Dimensions in millimeters and for reference only**

**ORDERING**

<table>
<thead>
<tr>
<th>Series</th>
<th>Output</th>
<th>Pressure Type</th>
<th>Pressure Range</th>
<th>Pressure Port</th>
<th>Electrical Connection</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDD30</td>
<td>B</td>
<td>SG</td>
<td>0050</td>
<td>03</td>
<td>800 = 3 pin Packard</td>
<td>3 = 0.5%</td>
</tr>
</tbody>
</table>

**Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use. While we provide application assistance personally, through our literature and the Transducers Direct web site, it is up to the customer to determine the suitability of the product in the application.**