The TDH40 Series
Low Cost OEM Pressure Transducer

APPLICATIONS
- Hydraulic / Mobile Hydraulic
- Pneumatic Systems
- Food and Beverage Industry
- Pumps and Compressors
- Energy and water management
- Construction and Agricultural Equipment

DESCRIPTION
The TDH40 Series Pressure Transducer utilizes piezoresistance technology in an all stainless steel body. It is compact in size, has long term stability, ease of installation and is very economical as well as reliable.

The TDH40 sets a new price-performance standard for low cost, high volume commercial and industrial applications.

FEATURES
- 3 to 10,000 psi Range
- Various Outputs
- Compact Design
- 316 Stainless steel Housing
- Low Cost
- Better 0.4% Accuracy
- Custom Outputs and Ranges Available
- OEM Tested and Approved
- Low power consumption

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>Supply V+</td>
<td>Brown</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Output +</td>
<td>White</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Com</td>
<td>Blue</td>
<td>3</td>
</tr>
<tr>
<td>4-20mA</td>
<td>Supply V+</td>
<td>Brown</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Output</td>
<td>Blue</td>
<td>3</td>
</tr>
</tbody>
</table>
**SPECIFICATIONS**

**Performance @ 25°C (77 °F)**

- **Accuracy**: 0.4% FS, BFSL (includes non-linearity, hysteresis and non-repeatability)
- **Stability**: 0.2% FS
- **Thermal Error**: 1% FS
- **Compensated Temperatures**: -10 to 75 °C (14 to 167 °F)
- **Operating Temperatures**: -20 to 80 °C (-4 to 176 °F)
- **Current Consumption**: Approx 4mA for 0-5 & 0.5-4.5 voltage output, 11mA for 0-10 voltage output, 23mA for current output (4-20mA)
- **Zero and Span Offset Tolerance**: 1.5%
- **Shock**: 50g, 11ms, 1/2 sign
- **Vibration**: 11g peak from 10 to 400 Hz
- **Reverse Polarity Protection**: Yes

**Mechanical Configuration**

- **Pressure Port**: 1/4 NPT (standard) *
- **Electrical Connection**: M12 *
- **Housing**: 316 stainless steel
- **Diaphragm Material**: 3-75psi = 316 SS, >75-1600psi = ceramic, >1600-10,000psi = 17-4 SS
- **Sealing Material**: Neoprene
- **Approvals**: CE

**Input**

- **Supply Voltage / (Output)**: 8-28 VDC (0-5V, 4-20mA) 5 VDC (0.5-4.5V) 12-36 VDC (0-10V)
- **Pressure Range**: 3 to 10,000 psi
- **Proof Pressure**: 1.5 x fullscale
- **Burst Pressure**: 3 x full scale
- **Fatigue Life**: More than 4 million cycles

For best performance use shielded cables.

Mating connectors and cable assemblies sold separately.

* Consult factory for further OEM options.

**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>TDH40</td>
<td>B</td>
<td>G</td>
<td>0050</td>
<td>03 = 1/4&quot; NPT Male **</td>
<td>Q00 = M12 **</td>
<td>5 = 0.4%</td>
</tr>
</tbody>
</table>

B = 4-20mA
C = 0-5V (3 wire) **

** = Consult factory for further OEM options

Pressures ranges and outputs listed above are quick ship versions

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