The TDH31 Series
Low Cost OEM Vacuum and Compound Range 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 TDH31 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 TDH31 sets a new price-performance standard for low cost, high volume commercial and industrial applications.

FEATURES
• Vacuum to 85 psi Ranges
• Various Outputs
• Compact Design
• 316 Stainless steel Housing
• Low Cost
• Industrial 1% 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 + Com Output N/A</td>
<td>Red, Black, White, N/A</td>
<td>1, 2, 3, 4</td>
</tr>
<tr>
<td>4-20mA</td>
<td>Supply V Output</td>
<td>Red, Black</td>
<td>1, 2</td>
</tr>
</tbody>
</table>

Electrical Connector: DIN 4 pin (9.4)
INNOVATIVE SENSORS
FOR INDUSTRIAL AND HOME AUTOMATION

DIMENSIONS

SPECIFICATIONS

Performance @ 25°C (77 °F)

Accuracy 1% 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 9.4 mini DIN, 3 pin Packard *
Ingress Rating IP65 with T-Direct standard 9.4 DIN cable
Housing 316 stainless steel
Diaphragm Material 316 SS - Vac-0, Vac-15, Vac-45   Ceramic - Vac-85
Sealing Material Neoprene
Approvals CE

For best performance use shielded cables.
Mating connectors and cable assemblies sold separately.
* Consult factory for further OEM options.

ORDERING

Series TDH31
Output G Pressure Range
B V000 B = 4-20mA
G = Gauge 03 = 1/4" NPT Male
Pressure Type V000
Vac-0 = V000
Vac-15 = V015
Vac-45 = V045
Vac-85 = V085

Pressure Port 03 = 1/4" NPT Male
Electrical Connection D00 = 4 pin Mini 9.4 DIN cable
Accuracy D00 = 3 pin Packard
4 = 1% FS

** = Consult factory for further OEM options
Pressure ranges and outputs listed above are quick ship versions
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.

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