

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

SERIES: TDH31

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.

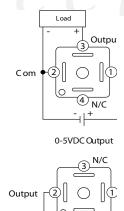
FEATURES

- 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

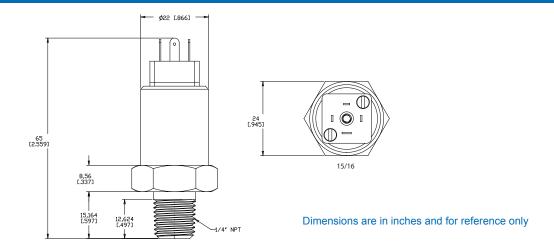
Signal	Function	Color	Pin	Electrical Connector
0-5V	Supply V + Com Output N/A	Red Black White N/A	1 2 3 4	DIN 4 pin (9.4)
4-20mA	Supply V Output	Red Black	1 2	



4-20mAOutput



DIMENSIONS



SPECIFICATIONS

Performance @ 25°C (77 °F)

Accuracy

Stability Thermal Error

Compensated Temperatures Operating Temperatures Current Consumption

Zero and Span Offset Tolerance

Shock Vibration

Reverse Polarity Protection

Mechanical Configuration

Pressure Port **Electrical Connection** Ingress Rating Housing

Diaphragm Material Sealing Material Approvals

1% FS, BFSL (includes non-linearity, hysteresis and non-repeatability)

0.2% FS 1% FS

-10 to 75 ° C (14 to 167 ° F) -20 to 80 ° C (-4 to 176 ° F)

Approx 4mA for 0-5 & 0.5-4.5 voltage output,

11mA for 0-10 voltage output, 23mA for current output (4-20mA)

1.5%

50g, 11ms, 1/2 sign 11g peak from 10 to 400 Hz

Yes

1/4 NPT (standard) *

9.4 mini DIN, 3 pin Packard *

IP65 with T-Direct standard 9.4 DIN cable

316 stainless steel

316 SS - Vac-0, Vac-15, Vac-45 Ceramic - Vac-85

Neoprene CE

Input

8-28 VDC (0-5V, 4-20mA) Supply Voltage / (Output)

5 VDC (0.5-4.5V) 12-36 VDC (0-10V) Vacuum to 85 psig*

Pressure Range **Proof Pressure** 1.5 x full scale **Burst Pressure** 3 x full scale Fatigue Life

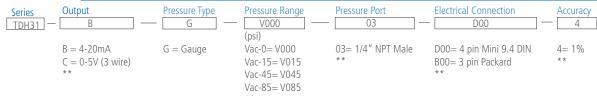
More than 4 million cycles

For best performance use shielded cables.

Mating connectors and cable assemblies sold separately.

* Consult factory for further OEM options.

ORDERING



Pressure ranges and outputs listed above are quick ship versions

^{**=} Consult factory for further OEM options