

# 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.

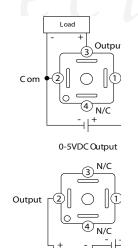
# **FEATURES**

- 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	

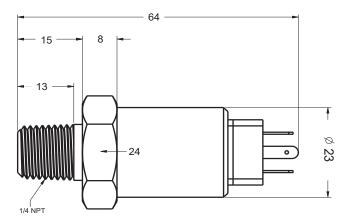


Load

4-20mAOutput



# **DIMENSIONS**



Dimensions are in millimeters and for reference only

#### **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

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

5 VDC (0.5-4.5V) 12-36 VDC (0-10V)

Pressure Range Vacuum to 85 psig\*

Proof Pressure 1.5 x full scale
Burst Pressure 3 x full scale

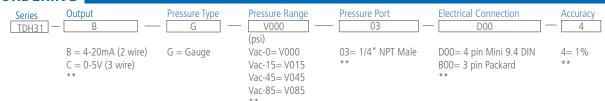
Fatigue Life More than 4 million cycles

For best performance use shielded cables.

Mating connectors and cable assemblies sold separately.

\* Consult factory for further OEM options.

#### **ORDERING**



<sup>\*\*=</sup> Consult factory for further OEM options