

The TDH33 Series Low Cost OEM Pressure Transducer with all Stainless Steel Wetted Parts













APPLICATIONS

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

DESCRIPTION

The TDH33 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.

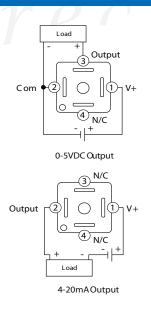
The TDH33 sets a new price-performance standard for low cost, high volume commercial and industrial applications.

FEATURES

- Vac to 285 psi or 3 to 10,000 psi Range
- Various Outputs
- Compact Design
- 316 Stainless steel Housing
- All stainless steel wetted parts
- High 125 ° C (257 ° F) operating temperature
- Low Cost
- Industrial 1% Accuracy
- Custom Outputs and Ranges Available
- OEM Tested and Approved
- Low power consumption

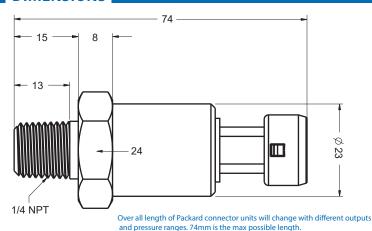
ELECTRICAL CONNECTIONS

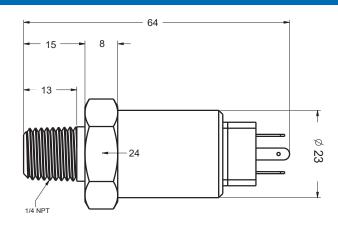
Signal	Function	Color		Pin	Electrical Connector
0-5V	Supply V + Com Output N/A	Red Black White N/A		1 2 3 4	DIN 4 pin (9.4)
					Black 2 1
4-20mA	Supply V Output	Red Black		1 2	
Signal	Function	Color	Pin		3 pin Packard
0-5V	Com	Black	Α		
	Supply +	Red	В		
	Output +	White	С		
4-20mA	Output	Black	Α		
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





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

Approvals

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

0.2% FS 1% FS

-10 to 100 ° C (14 to 212 ° F)

-20 to 125 ° C (-4 to 257 ° 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 IP66 with T-Direct standard Packard cable

316 stainless steel

316L SS <1500 psi, 17-4 SS 1500 psi and above, wetted parts are SS, no internal Orings

Input

Supply Voltage / (Output)

5 VDC (0.5-4.5V)

Pressure Range

Proof Pressure

Burst Pressure

Fatigue Life

12-36 VDC (0-10V) Vac to 285 psi or 3 to

8-28 VDC (0-5V, 4-20mA)

10,000 psi 3-6000 psi = 3 x

6000-10K psi = 2 x3-6000 psi = 4x

6000-10K psi = 3xMore than 4 million

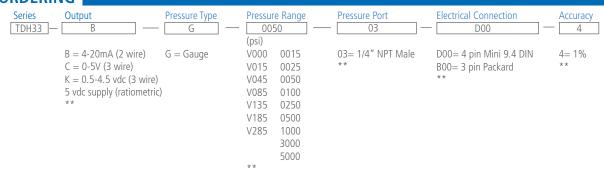
cycles

For best performance use shielded cables

Mating connectors and cable assemblies sold separately.

* Consult factory for further OEM options.

ORDERING



**= 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.