

NEW

The TDH41 Series
Better Accuracy, Low Cost,
OEM Vacuum and Compound
Range Pressure Transducer



SERIES: TDH41



APPLICATIONS

- Hydraulic
- Pneumatic Systems
- Food and Beverage Industry
- Refrigeration Systems
- Energy and water management
- Construction and Agricultural Equipment

DESCRIPTION

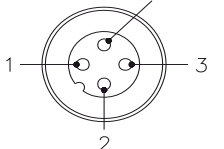
The TDH41 Series Pressure Transducer utilizes piezoresistance technology in an all stainless steel body. It is compact in size, has long term stability, ease of installation and is very economical as well as reliable.

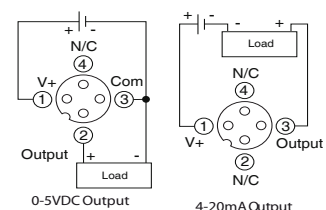
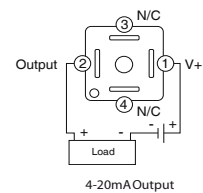
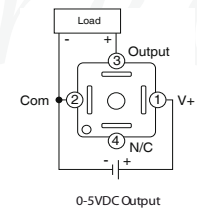
The TDH41 sets a new price-performance standard for low cost, high volume commercial and industrial applications.

FEATURES

- Vacuum to 85 psig Ranges
- 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

Signal	Function	Color	Pin	Electrical Connector
0-5V	Supply V + Com Output	Red Black White	1 2 3	
4-20mA	Supply V + Output	Red Black	1 2	
				M12 
0-5V	Supply V + Output + Com	Brown White Blue	1 2 3	
4-20mA	Supply V + Output	Brown Blue	1 3	



SPECIFICATIONS

Input

Supply Voltage	12-36 VDC
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

Performance @ 25° C (77° F)

Accuracy	0.4% full scale, BFSL
Stability	0.2% full scale
Compensated Temperatures	-10 to 75 ° C (14 to 167 ° F)
Operating Temperatures	-20 to 80 ° C (-4 to 176 ° F)
Zero and Span Offset Tolerance	1.5%
Current Consumption	Approx 3mA for voltage output, 22mA for current output (4-20mA)

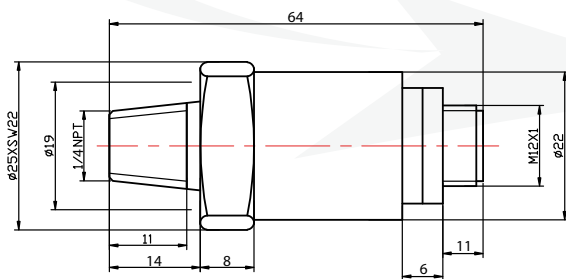
Mechanical Configuration

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 IP67 with T-Direct standard TDM12 cable
Diaphragm Material	316 SS - Vac-0, Vac-15, Vac-45, Ceramic - Vac-85
Sealing Material	Neoprene
Approvals	CE

For best performance use shielded cables

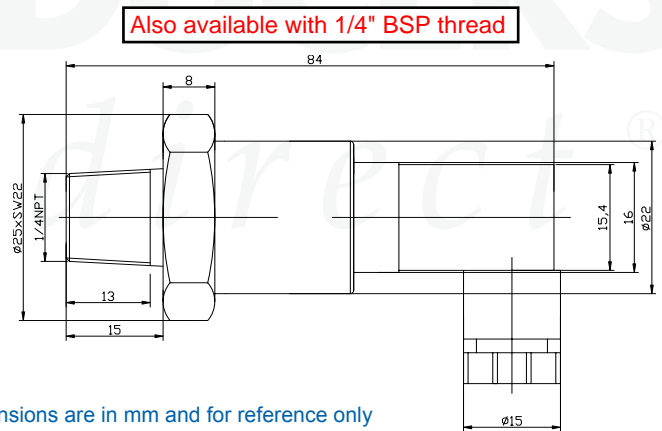
Mating connectors and cable assemblies sold separately

* = Consult factory for further OEM options



Dimensions

Dimensions are in mm and for reference only



ORDERING

Series TDH41	Output B	Pressure Type G	Pressure Range V000 psi	Pressure Port 03	Electrical Connection D00	Accuracy 5
	B= 4-20mA C= 0-5V (3 wire) **	G = Gauge	Vac-0= V000 Vac-15= V015 Vac-45= V045 Vac-85= V085 **	03= 1/4" NPT Male ** 13 = 1/4" BSP (G14)	D00= 4 pin Mini 9.4 DIN Q00= M12 **	5= 0.4%

**= 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.

REV: 5.11