

## The TDH70 Series Industrial Pressure Transducer - Flush Diaphragm Type



SERIES: TDH70

### DESCRIPTION

Transducers Direct offers a TDH70 Series flush mount pressure transducer with outstanding reliability, including piezoresistance sensor technology and a stainless steel construction. The product includes a wide variety of electrical connections for multiple application-driven projects, all the while additionally providing long term stability and precision measurement.

### APPLICATIONS

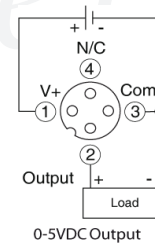
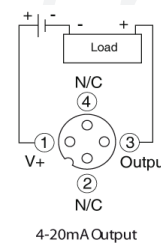
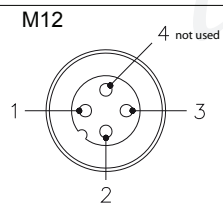
- Fluid and Gas Pressure
- Food and Beverage Industry
- Hydraulics
- Sanitation
- More

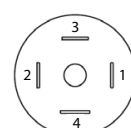
### FEATURES

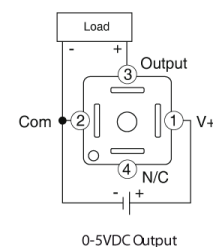
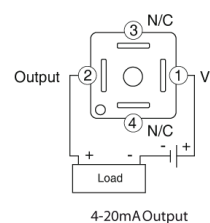
- Voltage Supply Ranges: 5 VDC, 12-36 VDC
- Pressure Ranges up to 8000 psi
- 1.5x Over Pressure Rating
- Voltage and Current Outputs Available
- 316 Stainless Steel Housing
- Low Cost, Compact Design
- 0.5% Accuracy

### ELECTRICAL CONNECTIONS

Signal	Function	Color	Pin
0-5V	Supply V +	Brown	1
-----	Output +	White	2
0.5-4.5V (ratiometric)	Com	Blue	3
4-20mA	Supply V +	Brown	1
	Output	Blue	3



Signal	Function	Color	Pin	Electrical Connector
0-5V	Supply V +	Red	1	
-----	Com	Black	2	
0.5-4.5V (ratiometric)	Output	White	3	
	N/A	N/A	4	
4-20mA	Supply V	Red	1	
	Output	Black	2	



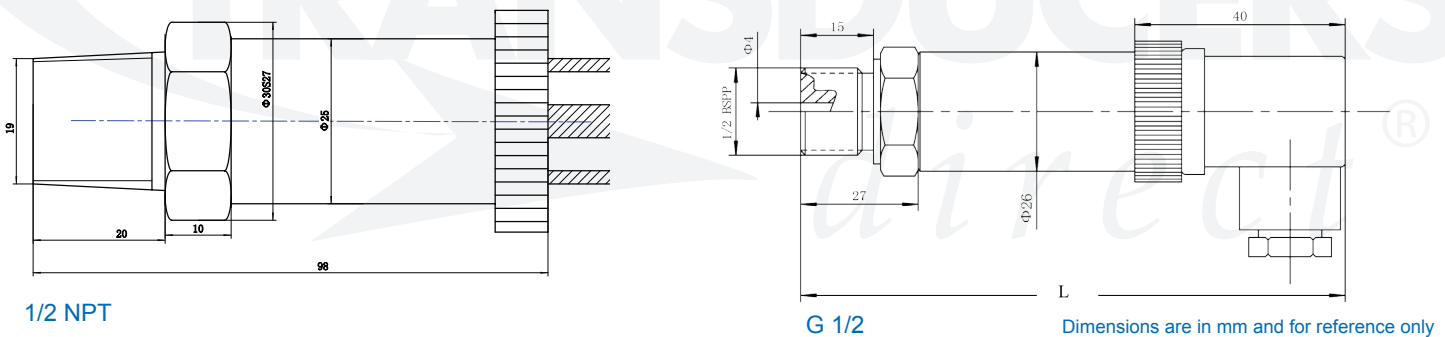
## SPECIFICATIONS

Input	
Supply Voltage	12~36 VDC, 5 VDC, ratiometric supply
Pressure Range	0~2 psi to ~8000 psi
Pressure Type	Gauge
Proof Pressure	1.5x FS
Burst Pressure	3x FS
Fatigue Life	1 million cycles
Performance @ 25° C (77° F)	
Accuracy	0.5% full scale, BFSL
Stability	± 0.2% full span over 1 year
Compensated Temperatures	-10 to 75 °C (14 to 167 ° F)
Operating Temperatures	-20 to 80 °C (-4 to 176 ° F)
Mechanical Configuration	
Pressure Port	1/2 NPT, G 1/2
Electrical Connection	9.4 mini DIN, M12
Housing	316 Stainless Steel
Sealing Material	FKM (fluoroelastomer)

For best performance use shielded cables.

Mating connectors and cable assemblies sold separately.

## DIMENSIONS



## ORDERING

Series	Output	Pressure Type	Pressure Range	Pressure Connection	Electrical Connection	Accuracy
TDH70	B	G	8000	03	D00	3
TDH70 = 316 stainless steel	B = 4-20mA C = 0-5 V K = 0.5-4.5V (ratiometric) **	G = Gauge **	0005 = 0-5 psi 0010 = 0-10 psi 0025 = 0-25 psi 0050 = 0-50 psi 0100 = 0-100 psi 0250 = 0-250 psi 0500 = 0-500 psi 1000 = 0-1000 psi 3000 = 0-3000 psi 6000 = 0-6000 psi 8000 = 0-8000 psi **	06= 1/2" NPT Male 15= G 1/2 **	D00 = 9.4 mini DIN Q00 = M12 **	3 = 0.5% **

\*\*= Consult factory for further OEM options

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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