

NEW

The TDH31 Series
Low Cost OEM Vacuum and
Compound Range Pressure
Transducer



SERIES: TDH31



APPLICATIONS

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

DESCRIPTION

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.

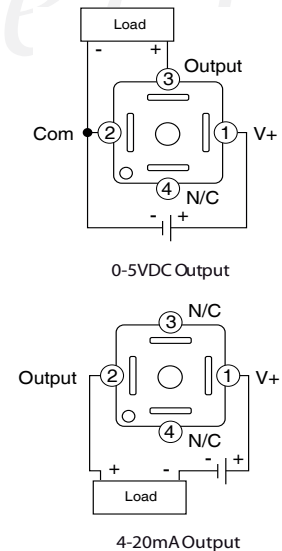
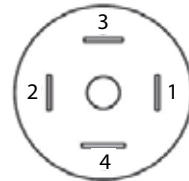
The TDH31 sets a new price-performance standard for low cost, high volume commercial and industrial applications.

FEATURES

- Vacuum to 85 psig 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 DIN 4 pin (9.4)
0-5V	Supply V + Com Output N/A	Red Black White N/A	1 2 3 4	
4-20mA	Supply V Output	Red Black	1 2	



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	1% 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

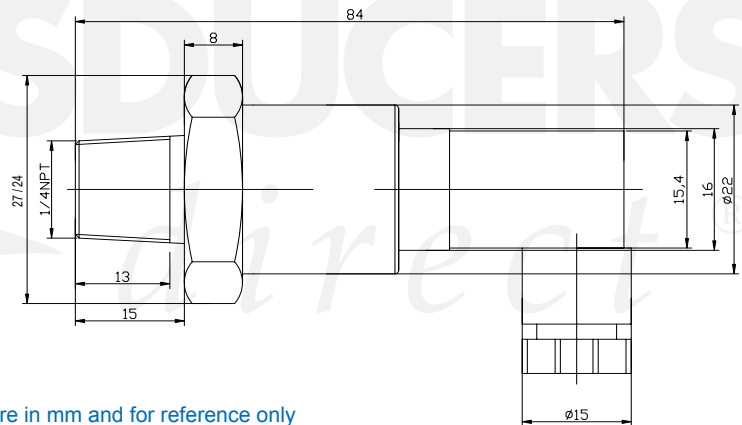
Pressure Port	1/4 NPT (standard) *
Electrical Connection	9.4 mini DIN, 3 pin Packard *
Ingress Rating	IP65 with T-Direct standard 9.4 DIN mating cable
Diaphragm Material	316 SS - Vac-0, Vac-15, Vac-45 Ceramic - Vac-85
Sealing Material	Neoprene
Approvals	CE

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	Output	Pressure Type	Pressure Range	Pressure Port	Electrical Connection	Accuracy
TDH31	B	G	V000 psi	03	D00	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 **	D00= 4 pin Mini 9.4 DIN **	4= 1%

**= Consult factory for further OEM options

Pressure ranges and outputs listed above are quick ship versions