

## Introducing the TDG series Absolute, Vacuum and Compound Range Industrial Pressure Transducers.



SERIES: TDG01/03

### FEATURES

- Gauge, Absolute, Vacuum and Compound Pressure Models Available
- General Purpose and Wash Down Enclosures
- High Stability Achieved by CVD Sensing Element
- Voltage and Current Output Models
- Custom pressure ranges available
- ASIC Technology, No Zero/Span Potentiometers

### DESCRIPTION

The TDG series features stability and accuracy in a variety of enclosure options. The TDG series extends the packaging options via an all welded stainless steel back end for demanding industrial applications.

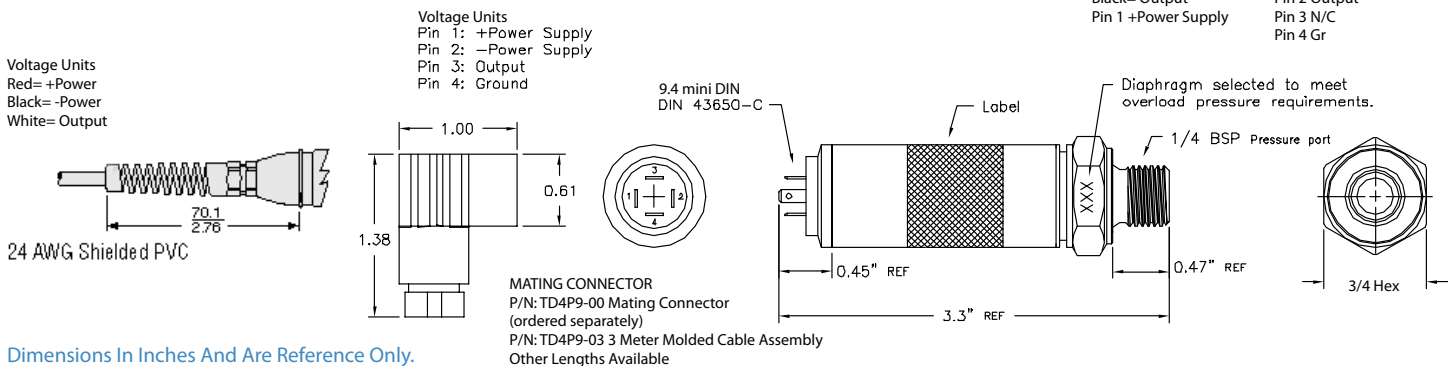
The TDG series feature proven CVD sensing technology, an ASIC (amplified units), and modular packaging to provide a sensor line that can easily accommodate specials while not sacrificing high performance.

### ELECTRICAL CONNECTIONS

#### Power Supply Requirements

Voltage Units: 1.5 vdc Over Max Output to 35 vdc for voltage outputs

Current Units: 7-35vdc for 4-20 mA output



## SPECIFICATIONS

Input	
Pressure Range	Vacuum to 400 bar (6000 psi)
Proof Pressure	2 x / 4 x Full Scale (FS) (1.5 x Fs for 400 bar, >= 5000 psi)
Burst Pressure	>35 x FS <= 6 bar (100 psi); >20 x FS >=60 bar (1000 psi); >5 x FS <= 400 bar (6000 psi)
Fatigue Life	Designed for more than 100 million FS cycles
Performance	
Long Term Drift	0.2% FS/year (non-cumulative)
Accuracy	0.25% / 0.5% FS typical (optional 0.15%)
Thermal Error	1.5% FS typical (optional 1% FS)
Compensated Temperatures	-20° to 80° C (-5° to 180° F)
Operating Temperatures	-40° to 125° C (-22° to 260° F) for the mini DIN -20° to 80° C (-5° to 180° F) for the NEMA 4 Cable -20° to 50° C (-5° to 125° F) for the IP67 Cable Amplified units >100°C maximum 24 Vdc supply
Zero Tolerance	1% of span
Span Tolerance	1% of span
Response Time	0.5 ms
Mechanical Configuration	
Pressure Port	See ordering chart
Wetted Parts	17-4 PH Stainless Steel
Electrical Connection	See ordering chart
Enclosure	316 ss, 17-4 PH ss IP65 for the mini DIN and NEMA Cable versions IP67 for IP67 Cable version IP68 for Submersible versions (max. depth 200meters H20)
Vibration	70g, peak to peak sinusoidal, 5 to 2000 Hz (Random Vibration: 20 to 2000 Hz @ 1 20g Peak per MIL-STD.-810E Method 514.4)
Acceleration	100g steady acceleration in any direction 0.032% FS/g for 1 bar (15 psi) range decreasing logarithmically to 0.0007% FS/g for 400 bar (6000 psi) range.
Shock	20g, 11 ms, per MIL-STD.-810E Method 516.4 Procedure
Outputs	All voltage outputs are 3 wire non-ratiometric, current output is 2 wire
Weight	Approx. 100 grams (additional cable; 75 g/m)

## ORDERING

Series	Output	Pressure Type	Pressure Range	Pressure Port	Electrical Connection	Cable Length	Accuracy
TDG03	D	G	1000	03	D	00	2
TDG03= 2X Over Pressure	B= 4-20ma	G = Gauge	vac-0 0-15	03= 1/4" NPT Male	J= IP67 Cable	00= None	3= 0.5%
TDG01= 4X Over Pressure	H= 1-5 vdc		vac-15 0-30	09= 7/16" x 20 SAE #4 (J1926-2)	D= 4 pin Mini 9.4 DIN	01= 1 meter	2= 0.25%
	W= 0.5 - 4.5 vdc		vac-45 0-60	01= 1/8" NPT MALE	C= Cable	**	1= 0.15%
	D= 0-10 vdc		vac-85 0-100	**	**		**
	C= 0-5 vdc		vac-135 0-150				
	All voltage outputs are 3 wire nonratiometric		vac-185 0-200				
	**		vac-285 0-250	OR	Pressure Type	Pressure Range	
			0-300		A= Absolute	0060	
			0-500				
			0-600				0-15
			0-1000				0-30
			0-1500				0-60
			0-2000				0-100
			0-3000				0-150
			0-4000				0-200
			0-5000				0-250
			0-6000				0-300

\*\*= Consult factory for further options.