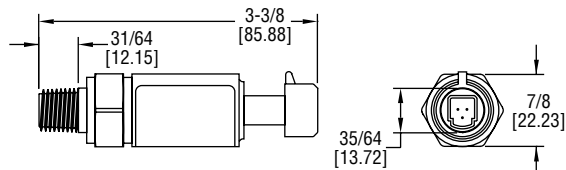


INDUSTRIAL PRESSURE TRANSMITTER

17-4PH SS Wetted Parts, Packard Electrical Connection



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product video



The **SERIES TPT** Pressure Transmitter is the ideal choice for all types of industrial pressure applications. Machined from a solid piece of 17-4PH SS, the TPT provides a leak proof, all metal system without O-rings, welds, or organics exposed to the pressure media. Its design allows for stable operation when subject to shock and vibration. Utilizing piezo-resistive technology with digital compensation and temperature correction, the TPT gives high accuracy and stability under harsh environmental conditions. Available in ratiometric and 4 to 20 mA outputs.

FEATURES/BENEFITS

- High-shock and vibration resistant insures stability in controlling pressure for process applications

APPLICATIONS

- OEM
- Hydraulic systems
- Industrial engines
- Compressors
- HVAC equipment

ACCESSORY

Model	Description
A-960	3' packard cable

OPTION

Use order code:	Description
NISTCAL-PT1	NIST traceable calibration certificate

SPECIFICATIONS

Service: Compatible liquids and gases.
Wetted Materials: 17-4PH SS.
Accuracy: $\pm 1\%$ FS (RMS).
Stability: $< \pm 0.25\%$ FS per year.
Temperature Limits: -13° to 185°F (-20° to 85°C).
Compensated Temperature Range: -13° to 185°F (-20° to 85°C).
Pressure Limits: Proof pressure: 2 x FS; Burst pressure: 3 x FS.
Enclosure Rating: IP65.

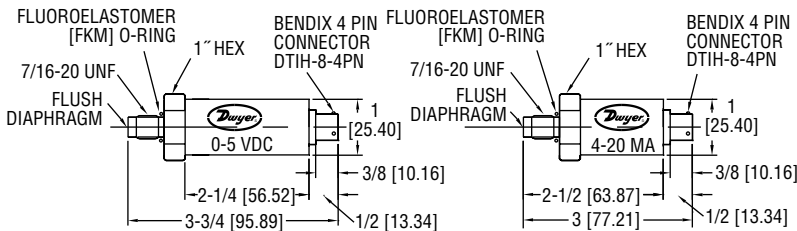
Thermal Effect: Zero shift: $\pm 0.01\%$ FS per 1°C ; Span error: $\pm 0.02\%$ FS per 1°C .
Power Requirements: See table.
Output Signal: See table.
Loop Resistance: $< 100 \Omega$.
Electrical Connection: Packard connector.
Process Connections: $1/4''$ -18 male NPT.
Shock: $\pm 20 \text{ g}$.
Vibration: 50 g @ 20 to 2000 Hz.
Weight: 0.20 lb (0.09 kg).

MODEL CHART

Model	Range psi (bar)	Power Requirements (VDC)	Output Signal
TPT-R01	100 (6.89)	4.75 to 5.25	0.5 to 4.5 VDC
TPT-R02	250 (17.24)	4.75 to 5.25	0.5 to 4.5 VDC 0.5 to 4.5 VDC 0.5 to 4.5 VDC
TPT-R03	500 (34.47)	4.75 to 5.25	0.5 to 4.5 VDC
TPT-R04	1000 (68.95)	4.75 to 5.25	0.5 to 4.5 VDC
TPT-R05	2500 (172.37)	4.75 to 5.25	0.5 to 4.5 VDC
TPT-R06	5000 (344.74)	4.75 to 5.25	0.5 to 4.5 VDC
TPT-C01	100 (6.89)	9 to 30	4 to 20 mA
TPT-C02	250 (17.24)	9 to 30	4 to 20 mA
TPT-C03	500 (34.47)	9 to 30	4 to 20 mA
TPT-C04	1000 (68.95)	9 to 30	4 to 20 mA
TPT-C05	2500 (172.37)	9 to 30	4 to 20 mA

SERIES FDT | DWYER

FLUSH DIAPHRAGM TRANSMITTER

Non-Liquid Filled, $\pm 0.5\%$ FS Accuracy, SS Wetted Parts

FDT-V

FDT-A

The **SERIES FDT** Flush Diaphragm Transmitter is designed for highly cyclical conditions. Flush sensor feature prevents any potential inaccuracies due to build-up or blockage which is a typical problem found in most non-flush transmitter sensors.

FEATURES/BENEFITS

- Performs well in high cyclical environments with the presence of water-hammering or spiking for long service life

APPLICATIONS

- OEM
- Hydraulic systems
- Process systems

MODEL CHART

Example	FDT	-A	-01	-NPT	FDT-A-01-NPT
Series	FDT				Flush diaphragm transmitter
Output		A	V		4 to 20 mA 0 to 5 VDC
Range			01 02 03 04 06 11 12 15		100 psi 150 psi 200 psi 300 psi 500 psi 1000 psi 2000 psi 5000 psi
Options				-NPT -C08	1/4" male NPT 0.25% FS accuracy

Note: Contact factory for additional range availability.

SPECIFICATIONS

Service: Compatible liquids and gases, adhesives, slurries, materials that can harden, or where a pressure cavity is not desired.
Wetted Materials: 316 & 15-5 SST.
Accuracy: $\pm 0.5\%$ FS (includes non-linearity, hysteresis, and repeatability).
Stability: $\pm 0.25\%$ FS per year.
Temperature Limits: -40 to 200°F (-40 to 93°C).
Compensated Temperature Limits: 0 to 170°F (-18 to 77°C).
Pressure Limit: 150% FS; Burst: 200% FS.
Thermal Effect: $\pm 1.5\%$ FSO over compensated range.

Power Requirements: 8 to 38 VDC.
Output Signal: FDT-A: 4 to 20 mADC; FDT-V: 0 to 5 VDC.
Response Time: $< 1 \text{ ms}$.
Loop Resistance: FDT-A: 0 to 1.5Ω ; FDT-V: 100 Ω .
Electrical Connections: 4-pin.
Process Connection: 7/16-20 UNF male flush diaphragm. Optional 1/4" male NPT.
Enclosure Rating: NEMA 4X (IP66).
Mounting Orientation: Mount in any position.
Weight: 2 oz (57 g).
Agency Approvals: CE.

ACCESSORY

Model	Description
A-168	Mating connector for 4 pin M-12

OPTION

Use order code:	Description
NISTCAL-PT1	NIST traceable calibration certificate

