

INNOVATIVE SENSORS

The TDEPD Field-Programmable Pressure Switch/Transducer with Integrated LED Display

A Description of the second seco

SERIES: TDEPD

DESCRIPTION

What makes the patented TDEPD Series stand apart is the unique LED display - which allows for 360° scrolling, or you can lock the display in one location. It also features fieldprogrammable set points and hysteresis.

Because it is built on Transducers Direct's TD1000 technology, the TDEPD Series incorporates redundant sensing elements, allowing for notification that the sensor needs to be replaced should one of the sensing elements fail (maintenance mode), eliminating operational downtime.

The TDEPD Series pressure switch/transducer comes standard with one digital output and optional analog output available. Unit operates from 10.5 to 28 VDC, and is IP67 certified.

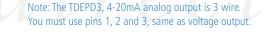
FEATURES

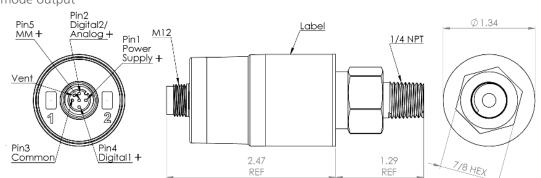
- Maintenance Mode (redundant sensing notification)
- Power supply: 10.5 VDC to 28 VDC
- 4-digit, bi-color display (red or green)
- Display: 360° scrolling or lock in location
- Pressure port: 1/4-inch NPT, 7/16-20 UNF, G 1/4
- Digital outputs : 250 mA max (PNP) or 200 mA max (NPN), and/or optional analog output: up to 10 VDC or up to 20 mA (field selectable)
- Wide variety of pressure ranges up to 10K psig
- Spike Monitoring Technology™ (SMT)

ELECTRICAL CONNECTIONS & DIMENSIONS

5-Pin M12

- Pin 1: Power supply: 10.5 VDC to 28 VDC
- Pin 2: Digital output #2 (optional) or analog output (optional)
- Pin 3: Power supply common
- Pin 4: Digital output #1
- Pin 5: Maintenance mode output





Dimensions are in inches and for reference only



INNOVATIVE SENSORS

SPECIFICATIONS

Performance Accuracy Overange Protection Pressure Range Burst Pressure Pressure Cycles Update Time

Environmental Data

Temperature Compensated Temperatures Operating Temperatures Storage TEB Long Term Drift Shock Vibration EMI/FRI Protection Ingress Rating

Mechanical Configuration

Pressure Connections Wetted Material Electrical Connection Case

Electrical Data

Power Supply Switch/Analog Output

Output Impedance Current Consumption

Output Noise Reverse Polarity Protection Set Points

Spike Counter Zero/Tare display Performance @ 25°C (77 °F) 0.5% BFSL 2x Rated Pressure or optional 4x and 10x see ordering chart - up to 10,000 psi (689 bar) 5x or 20,000 psi, whichever is less >100 million <=1msec

-40° to 85° C (-40 to 185° F) -40° to 100° C (-40° to 212° F) -40° to 125° C (-40° to 257° F) 01% BFSL (includes: Non-linearity, Hysteresis and Non-repeatability), analog output 0.2% FS/year (non-cumulative) 50g, 11 ms, 1/2 sine 10g, peak, 20 to 2400 Hz Yes Up to IP-65

1/4" NPT Male, 7/16-20 UNF, G1/4 Male

17-4PH stainless steel (for other materials consult factory) M12 (5-pin) (housing) 304 stainless steel and high-impact polycarbonate (display)

10.5-28 VDC

250 mA max (PNP) or 200 mA max (NPN) (digital output), Field-programmable: voltage up to 10 VDC or current up to 20mA (analog output) <100 Ohms, Nominal 30 mA @ 24 V / voltage output 40 mA @ 12 V / voltage output 50 mA @ 24 V / current output 60 mA @ 12 V / current output <2mV RMS Yes No set points in vacuum range, 5 psi min set point with <100 psi range, 10% of configured pressure min set point with > 100 psi range Press button # 1 for 10 seconds to view quantity of pressure spikes and the highest spike seen. Press button # 2 for 10 sec. If the pressure reading on the display is between -14.7 and 128 psi, the display will change to zero (0). If pressure is above 128 psi, display will not change.

For best performance use shielded cables.

Mating connectors and cable assemblies sold separately.

ORDERING

Series Version TDEP D1	Pressure Range	Pressure Port Electrical Connection	Overpressure Protection
D1 = 1 digital output with display D2 = 2 digital outputs with display D3 = 1 analog output, 1 digital output with display	0015 1000 0025 2000 0100 4000 0250 5000 0500 6000 0750 010K **	03= 1/4" NPT Male Q9 = M12 (5-pin) 09= 7/16-20 UNF 13= G1/4	[blank] = 2x (standard) 4x = 4x (5000 psi max)

**= 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.

FAX 513-583-9476