

The TDEPT Series **Ultra-High Resolution Digital Measurement 6x Over Pressure Dual Output OEM Pressure Transducer** for Injection Molding Machines



• All stainless steel welded housing

• 6 pin Bendix connector

• Special 15,000 psi header

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FEATURES

- Totally digital proprietary design
- Innovative redundent sensing elements
- Voltage and current outputs
- 6x over pressure
- 4-wire voltage output, 3 wire current output
- ASIC technology, no zero/span potentiometers
- Dual output, 0.15-10.15V and 4-20mA

DESCRIPTION

The TDEPT Series digital/configurable (an industry first) industrial pressure transducer features stability and accuracy over a wide temperature range at lower cost than competitive units typically not found in older analog designs yet is plug and play with most lower grade competitive units.

The transducer pressure cavity is machined from a solid piece of 17-4 PH stainless steel. The standard version includes a 7/16-20 SAE thread allowing a leak-proof, sealed system. There are no welds or organics exposed to the pressure media. The durability is excellent.

This product is geared to the OEM customer using medium to high volumes. The standard version is suitable for many

applications, but the dedicated design team at our Transducer Engineering Center stands ready to provide a semicustom design where the volume and application warrants.

• Optional Maintenance Mode output with LED indication

With its proprietary digital/ASIC technology, the TDEPT Series features field proven redundant sensing elements without the need for solder in resistors or trim pots that can drift over time. This provides years of excellent performance and reliability even in the harshest/demanding applications.

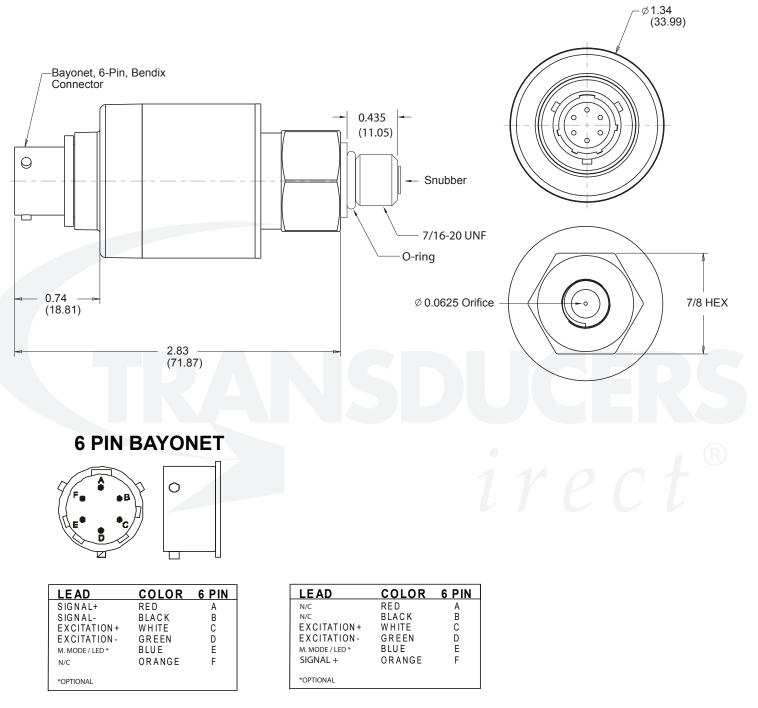
For applications where high spikes or water hammering is present that typically damages standard units.

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.



INNOVATIVE SENSORS

ELECTRICAL CONNECTIONS



Voltage Output (4 wire)

4-20mA Output (3 wire)



INNOVATIVE SENSORS FOR INDUSTRIAL AND HOME AUTOMATION

SPECIFICATIONS

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

Environmental Data

Temperature	
Compensated Temperatures	-40° to 100° C (-40 to 212° F)
Operating Temperatures	-40° to 100° C (-40 to 212° F)
Storage	-40° to 125° C (-40° to 250° F)
TEB	2% BFSL (includes: Non-linearity, Hysteresis and Non-repeatability)
Long Term Drift	0.2% FS/year (non-cumulative)
Shock	50g, 11 ms, 1/2 sine
Vibration	10g, peak, 20 to 2400 Hz
EMI/FRI Protection	Yes
Ingress Rating	IP-65
7/16-20 Thread Torque	16 ft-lb max, 192 In-lb max, 22 Nm max

See ordering chart

11-28VDC

<2mV RMS

Yes

1%

6 Pin Bendix / Bayonet

<100 Ohms, Nominal

<5mA (voltage output)

(housing) 304 stainless steel

to prevent potential short circuit)

Performance @ 25°C (77 °F)

see ordering chart

30,000 psi >100 million

<=1msec

0.5%

6х

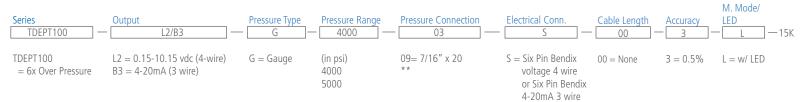
Mechanical Configuration

Pressure Connections Wetted Material Electrical Connection Case Electrical Data Excitation Output

Output Impedance Current Consumption Output Noise Reverse Polarity Protection Zero and Span Offset Tolerance Wiring

Maintenance Mode/LED

ORDERING



4-20mA output wiring is 3 wire (see wiring diagrams for each output)

17-4PH stainless steel (for other materials consult factory)

Dual output, 0.15-10.15 VDC and 4-20mA (The output wire not being used should be capped off

Standard voltage output wiring is 4-wire. For 3-wire configuration, tie pins B & D together.

this digital output is not connected, it should be capped off to prevent potential short circuit

Output indicates 1/2 bridge failure (pin E), green LED on = normal function, red LED on = 1/2 bridge failure. if

**= Consult factory for further options.

Consult factory for quick ship versions.

Maintenance Mode is configured as normally open

All straight-thread o-rings are Viton. It is customer's responsibility to determine compatibility.

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