

The TD1200 Series
Ultra High Resolution
Digital Measurement,
General Purpose, Absolute
Pressure Transducer





SERIES: TD1200

### **FEATURES**

- Totally digital proprietary design
- · Innovative redundent sensing elements
- 24V digital output for pressure or temp switch point
- Voltage and current outputs
- 15 to 300 psia absolute pressure ranges available
- Custom pressure Ranges and outputs available
- · All stainless steel welded housing
- 0.25% accuracy

- ASIC technology, no zero/span potentiometers
- IP-69K rated seal available (high pressure wash down)
- Innovative low current consumption, ideal for custom wireless solutions
- Programable systems available for OEM/systems integrators for in-house configuring of outputs, ranges and set points to reduce inventory and lead times
- Calibration Certificates available (contact customer service)

#### DESCRIPTION

The TD1200 Series digital/configurable (an industry first) industrial absolute pressure transducer features stability and accurace 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.

With its proprietary digital/ASIC technology, the TD1200 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. This combined with optional 4x over pressure and the optional integrated temperature or pressure digital switch feature, makes the TD1200 Series truly an industry first and second to none.

For extreme applications where power washers are used for wash down, the TD1200 Series optional IP69K seal, another industry first, makes it ideal no matter what the environment.

With its flexible low power design and lower manufacturing costs, the TD1200 Series offers outstanding value and makes it ideal for custom wireless applications.

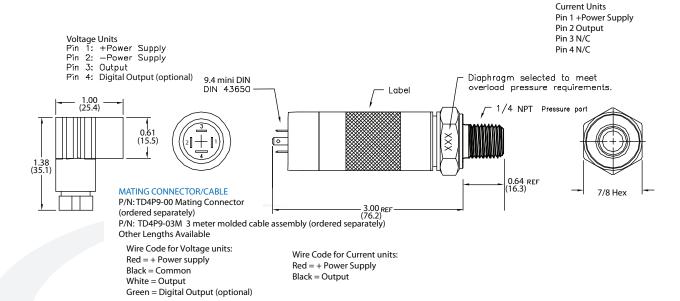
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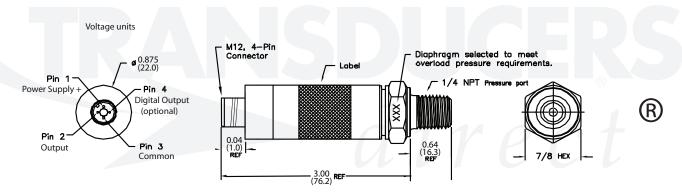
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## **ELECTRICAL CONNECTIONS**





#### M12 MATING CABLE ASSEMBLIES

**VOLTAGE OUTPUT TRANSDUCERS ONLY** 

M12 with 2 LEDs (green and yellow) Green shows power, Yellow shows digital output

P/N: TDM12-4F69-CR2L-01M 1 meter molded cable assembly for voltage outputs only

CURRENT OUTPUT TRANSDUCERS ONLY

M12 with no LFDs

P/N:TDM12-4F69-CR-01M 1 meter molded cable assembly

for 4-20mA outputs (no digital output available with 4-20mA outputs)

Other Lengths Available

Wire Code for voltage units: Brown = + Power Supply White = Output

Blue = Common Black = Digital Output (optional) Wire Code for Current units: Brown = + Power Supply Blue = Output

**Current Units** Pin 1 + power Supply Pin 2 N/C Pin 3 Output Pin 4 N/C

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Pressure or Temp

## **SPECIFICATIONS**

Performance @ 25°C (77 °F) Performance

Accuracy 0.25% BFSL - (0-15 psia range with 4-20mA outupt, 0.5% BFSL)

**Overange Protection** 2x Rated Pressure **Pressure Range** 15 to 300 psia

**Burst Pressure** 5x

**Pressure Cycles** >100 million Update Time <=1msec

**Digital Output** Optional digital output for pressure, maintenance or temp switch point (not available on 4-20mA

output units), max load current 20mA

**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** 0.9% FS

Long Term Drift 0.2% FS/year (non-cumulative) Shock 100g, 11 ms, 1/2 sine Vibration 20g, peak, 20 to 2400 Hz

**EMI/FRI Protection** 

Rating Up to IP-69K available (high pressure wash down)

CE

**Approvals** 

Mechanical Configuration **Pressure Connections** 

See ordering chart Wetted Material 17-4PH stainless steel (for other materials consult factory)

**Electrical Connection** 9.4 Din, IP-69K 4 pin M12 Connector Case (housing) 304 stainless steel

**Electrical Data** 

4-28VDC, Typ (must be at least 0.3V above full output voltage), 7.5VDC min for 4-20mA Excitation

Output see ordering chart **Output Impedance** <100 Ohms, Nominal

25mA max (current output), <5mA (voltage output) **Current Consumption** 

1%

**Output Noise** <2mV RMS **Reverse Polarity Protection** Yes

Zero and Span Offset Tolerance Maintenance Mode

The maintenance mode digital output indicates 1/2 bridge failure and can be selected instead of pressure or temp set point with the designation "M".

Set Point for Pressure or Temp For pressure, this is done by selecting a percentage of your transducer's full range

> and this will be the set point (40% of a 1000 psi range will have the set point at 400psi) "P40". For temperature, select your set point in degrees C such as 40° C (104° F) and this will be the set point

"T40". When set point is reached and becomes active there is a digital output on pin 4.

# ORDERING

Series TD1200	Output Pressure Type BB — A	Pressure Range Pressure Connec  0015 — 03	tion Electrical Connection Accuracy Q00 — 2	Set Point (P or T)  - T40
TD1200	BB= 4-20mA A = Absolute CC= 0-5 vdc DD= 0-10 vdc HH= 1-5 vdc JJ= 1-6 vdc GG= 0.5-5.5 vdc (nonratiometric) WW= 0.5-4.5 vdc (nonratiometric) **	0015 03= 1/4" NPT Ma 0025 09= 7/16" x 20 0050 ** 0100 0150 0200 0250 0300	le Q00= IP69K M12 2 = 0.25% D00= 4 pin 9.4 Mini DIN **	P or T10= 10% of pressure range or 10° C P or T20= 20% of pressure range or 20° C P or T30= 30% of pressure range or 30° C P or T40= 40% of pressure range or 40° C P or T50= 50% of pressure range or 50° C P or T60= 60% of pressure range or 60° C P or T70= 70% of pressure range or 70° C P or T80= 80% of pressure range or 80° C P90= 90% of pressure range  (P= % of the full pressure range selected) (T= full temp range of 10 to 80° C) **
				Pressure maintenance and temps et points are

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