



Digital Measurement, General Purpose, Pressure Transducer





SERIES: TD2000

FEATURES

- Totally digital proprietary design
- Innovative redundent sensing elements
- 24V digital output for pressure or temp switch point
- Variety of voltage outputs available
- Custom pressure Ranges and outputs available
- More standard pressure ranges, Industry First
- 2x overpressure rating

- 0.05% BFSL accuracy
- ASIC technology, no zero/span potentiometers
- All stainless steel welded housing
- IP-69K rated seal available (high pressure wash down)
- Innovative low current consumption, ideal for custom wireless solutions
- Calibration Certificates provided

DESCRIPTION

The TD2000 Series digital/configurable (an industry first) industrial pressure transducer features excellent stability and precision accuracy over a wide temperature range at lower cost than competitive units.

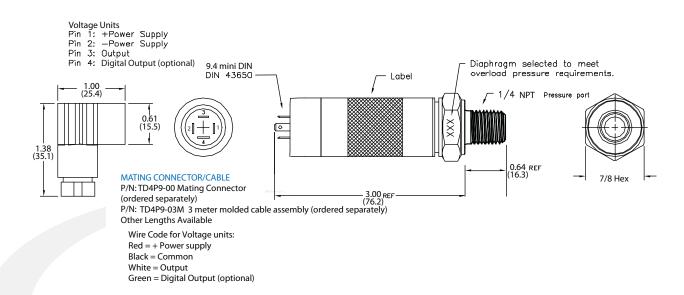
With its proprietary digital/ASIC technology, the TD2000 Series features field proven redundant sensing elements without the need for solder in resistors or trim pots that can drift over time. This provides years of excellent performance and reliability even in the harshest/demanding applications. This combined with the optional integrated temperature or pressure digital switch feature, makes the TD2000 Series truly an industry first and second to none.

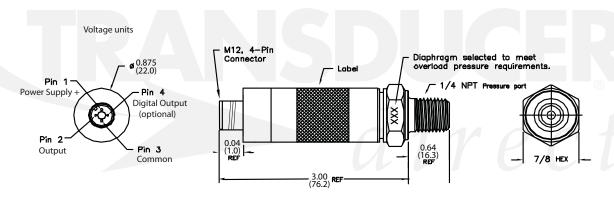
For extreme applications where power washers are used for wash down, the TD2000 Series optional IP69K seal, another industry first, makes it ideal no matter what the environment.

With its flexible low power design and lower manufacturing costs, the TD2000 Series offers outstanding value and makes it ideal for custom wireless applications.



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

Other Lengths Available

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

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SPECIFICATIONS

Performance Performance @ 25°C (77 °F)

Accuracy 0.05% BFSL Overange Protection 2x Rated Pressure

Pressure Range see ordering chart - up to 6000 psi (414 bar) (optional higher ranges available)

5x or 20,000 psi, whichever is less Burst Pressure

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

Digital Output Optional digital output for pressure, maintenance or temp switch point, max load current 20mA

Environmental Data

Temperature

Compensated Temperatures 24° to 60° C (75 to 140° F) -40° to 100° C (-40 to 212° F) **Operating Temperatures** -40° to 125° C (-40° to 250° F) Storage

0.25% BFSL (includes: Non-linearity, Hysteresis and Non-repeatability) TEB

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

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

Approvals

Mechanical Configuration

Pressure Connections

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

Electrical Connection Cable, 9.4 Din, IP-69K 4 pin M12 Connector

(housing) 304 stainless steel Case

Electrical Data

Excitation 3.5-28VDC, Typ (must be at least 0.3V above full output voltage)

Output see ordering chart <100 Ohms, Nominal **Output Impedance** Current Consumption <5mA (voltage output)

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

Zero and Span Offset Tolerance

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 what percentage of 80° C you want the set point to be (70% of

80° C is 56° C [132.8° F] and this will be the set point) "T70". Maintenance Mode The maintenance mode output indicates 1/2 bridge failure

ORDERING

Series TD2000 —	Output Pressure Type CC G	Pressure Range — 0050 —	Pressure Connection — 03 —	Electrical Connection Accuracy — Q00 — 6	Pressure or Temp Set Point % (P or T) T40
TD2000 = 2x Over Pressure	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) **	0050 0900 0100 1000 0150 2000 0200 3000 0250 4000 0350 6000 0400 0500 0600 0700 0800	03= 1/4" NPT Male 09= 7/16" x 20 **	Q00= IP69K M12 6= 0.05% 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) (full temp range is 10 to 80° C) **

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