TRANSDUCERS direct®

"APPLYING TODAY'S TOOLS WITH YESTERDAY'S EXPERIENCE PROVIDING OUR CUSTOMERS THE SOLUTIONS OF TOMORROW."

NEW

The TD1000/1100 series Totally Digital Industrial Pressure Transducer

SERIES: TD1000/1100

PRELIMINARY

FEATURES

- Totally digital design / Patent Pending
- Innovative redundant sensing elements
- 24V digital output signal for pressure switch point
- Voltage and current output models
- Custom pressure ranges and outputs available
- Great customer service (Industry's Best)
- More standard pressure ranges , Industry First
- ASIC Technology, No Zero/Span Potentiometers
- All stainless steel welded housing
- IP-69K rating seal available (high pressure wash down)
- Innovative low current consumption, ideal for custom wireless solutions
- Programmable 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

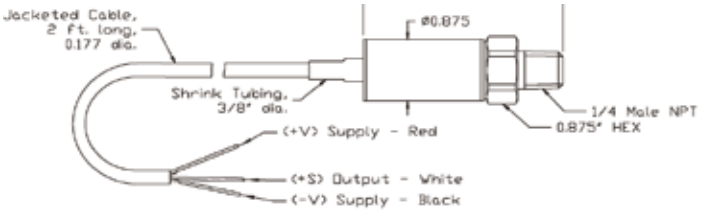
The TD1000/1100 series industrial pressure transducer features stability and accuracy in an all stainless steel housing welded on both ends.

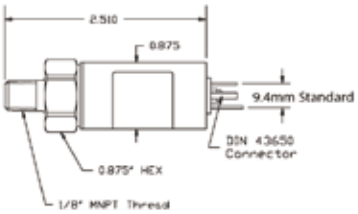
ASIC technology / patent pending with proven sensing elements gives the TD1000/1100 years of excellent performance and reliability without the need for trim pots.

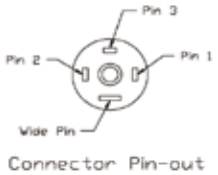
The TD1000/1100 superior seal (IP-69K) makes it ideal for harsh environments including wash down applications.

With our flexible electronic design,we can easily accommodate specials and wireless without sacrificing performance.

ELECTRICAL CONNECTIONS







Connector Pin-out

Table 1 9.4 Standard

Output	Pin 3	Pin 2	Pin 1
Voltage			
Current	+ Output	- V Supply	+ V Supply

SPECIFICATIONS

Performance	Performance @ 25°C (77 °F)
Accuracy	0.25% / 0.5% BFSL(includes: Non-linearity, Hysteresis and Non-repeatability)
Overange Protection	2x Rated Pressure
Pressure Range	see ordering chart - up to 10,000 psi (690 bar)
Burst Pressure	5x or 20,000 psi, whichever is less
Pressure Cycles	>100 million
Update Time	<=1msec(contact factory for custom updates)
Digital Output	Optional digital output for pressure switch point
Environmental Data	
Temperature	
Operating	-40° to 85° C (-40° to 185° F)
Storage	-40° to 125° C (-40° to 250° F)
Thermal Limits	TC Zero <+1.5% of FS TC Span <+1.5% of 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	Yes
Rating	Up to IP-69K available (high pressure wash down)
Mechanical Configuration	
Pressure Connections	See ordering chart
Wetted Material	17-4PH stainless steel (for other materials consult factory)
Electrical Connection	Cable, 9.4 Din, 8.0 Din, IP-69K 4 pin M12 Connector
Case(housing)	304 stainless steel
Electrical Data	
Excitation	10-28VDC, Typ (must be at least 0.5V above full output voltage)
Output	see ordering chart
Output Impedance	<100 Ohms, Nominal
Current Consumption	25mA max (current output), <5mA (voltage output)
Output Noise	<2mV RMS
Reverse Polarity Protection	Yes

ORDERING

Series	Output	Type	Pressure Range		Pressure Port	Electrical Connection	Options	Accuracy	Set Point %	Set Point Direction	SP - Hysteresis
TD1000	D	G	1000 (psi)		03	D	00	2	7	A	2
TD1000= 2X Over Pressure TD1100= 4X Over Pressure (up to 5000 psi only)	B= 4-20ma C= 0-5 vdc D= 0-10 vdc J= 1-6 vdc L= 0.1-10 vdc (4 wire) G= 0.5-5.5 vdc (nonratiometric) **	G= Gauge	0015 0025 0050 0100 0150 0200 0250 0300 0400 0500 0600 0700 0800	0900 1000 2000 3000 4000 5000 6000 7000 8000 9000 010K **	03= 1/4" NPT Male 09= 7/16" x 20 **	Q7= IP69K M12 D= 4 pin Mini 9.4 DIN F= 4 pin Mini 8.0 DIN **		3= 0.5% 2= 0.25% **	X= no SP 1= 10% 2= 20% 3= 30% 4= 40% 5= 50% 6= 60% 7= 70% 8= 80% 9= 90% (of full range)	X= no set point A= Rising N.O. (activation above setpoint on rise) B= Rising N.C. (de-activation above set point on rise) C= Falling N.O. (de-activation below set point on fall) D= Falling N.C. (activation below setpoint on fall)	X= none 1= 5% 2= 15% 3= 25% (% of set point) **

**= Consult factory for further options

Consult factory for quick ship versions