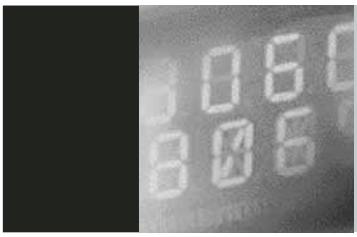


PT410 Series

Features

- Accuracy better than +/- 0.25%
- Measures up to 1000ºF (538ºC)
- NaK fill meets FDA and USDA requirements
- Inconel diaphragm
- 0 - 500 to 0 -10,000 psi
- 3.33 mV/V FSO

Benefits

- Reliable, repeatable pressure measurements
- Designed for extremely high process temperatures
- Ideal for medical and food applications
- Excellent abrasion and corrosion resistance
- Wide variety of pressure ranges
- Easy to calibrate with local indicator

Description

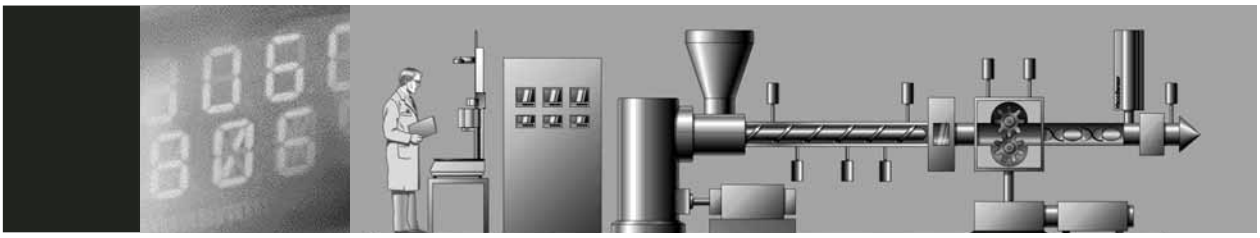
The PT410 Series transducer is a +/- 0.25% sensor ideal for food or medical applications requiring high accuracy, simple installation, repeatability and reliability. The NaK fill material meets the requirements set forth by both the FDA and USDA for contact with food and medical products. The PT410 Series transducers provide the industry standard 3.33 mV/V signal designed to work with most pressure indicators. The The PT410 comes equipped with an eight pin bendix connector. Optional thermocouple or RTD configurations are available to provide melt temperature. The PT410 features a 1/2-20 UNF thread for installation in standard transducer mounting holes and can be supplied with a variety of other electrical connections, if desired.

Specifications

PERFORMANCE CHARACTERISTICS
Output: 3.33 mV/V +/- 2.0%
Input Voltage: 10 Vdc recommended, 12 Vdc maximum
Combined Error: +/- 0.25% FSO,
(Including Linearity, Repeatability & Hysteresis)
+/- 0.5% FSO for 500, 750, 1,000 psi ranges
Repeatability: +/- 0.1%FSO,
+/- 0.2% FSO for 500, 750, 1,000 psi ranges
Configuration: Four-arm bonded foil Wheatstone bridge strain gage
Bridge Resistance: Input: 345 Ohms minimum
Output: 350 Ohms +/- 10%
Over Pressure: 2 X FSO or 35,000 psi whichever is less
Zero Balance: +/- 5% FSO
Internal Shunt Calibration (R-Cal): 80% FSO +/- 0.5%
Insulation Resistance: 1000 megohms @ 50 Vdc

TEMPERATURE & MECHANICAL CHARACTERISTICS
Max Diaphragm Temperature: 1000ºF (538ºC)
Zero Shift (due to temperature change):
30 psi/100ºF Typical (54 psi/100ºC)
Electronics Operating Temperature: 250ºF (121ºC)
Zero Shift Due to Temperature Change:
+/- 0.01% FS/ºF max (+/- 0.02% FS/ºC max)
Sensitivity Shift Due to Temperature Change:
+/- 0.005% FS/ºF max (+/- 0.01% FS/ºC max)
+/- 0.01% FS/ºF max (+/- 0.02% FS/ºC max) for 500, 750, 1,000 psi ranges

Mounting Torque: 500 inch/lbs. maximum
Standard Wetted Parts: Inconel 718



Ordering Guide

X PT41 X -XX-X/XX-XXX

Option

Temperature Option

blank	= No temperature sensor
T	= J Type thermocouple

Stem Length

blank	= No Flex*
18"	= 18", 46 cm Flex

* not available with temperature sensor

Transducer Configuration

0	= Rigid stem, no flexible capillary*
2	= Rigid stem with flexible capillary

* not available with temperature sensor

Snout Length

3"	= 3", 7.6 cm
6"	= 6", 15 cm
9"	= 9", 23 cm
12"	= 12.5", 32 cm

Pressure Range

5C	=	500 psi
7.5C	=	750 psi
1M	=	1,000 psi
1.5M	=	1,500 psi
3M	=	3,000 psi
5M	=	5,000 psi
7.5M	=	7,500 psi
10M	=	10,000 psi

Standard mating connector Dynisco P/N 710700 or 8-pin mating connector cable assembly.

Shaded sections refer to standard configurations. Accuracy may be affected if non-standard configurations are used. For additional options please consult factory.

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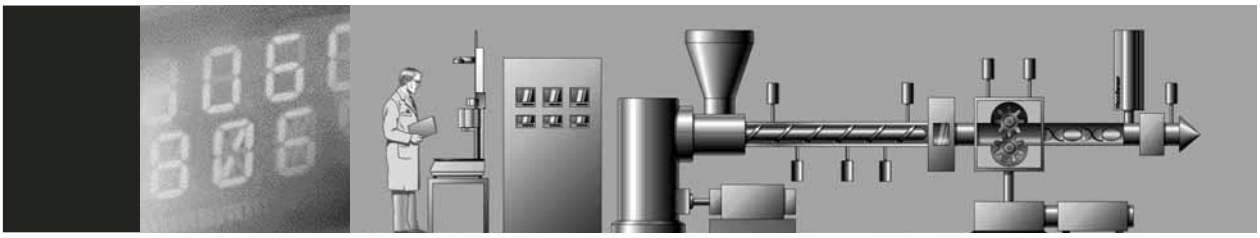
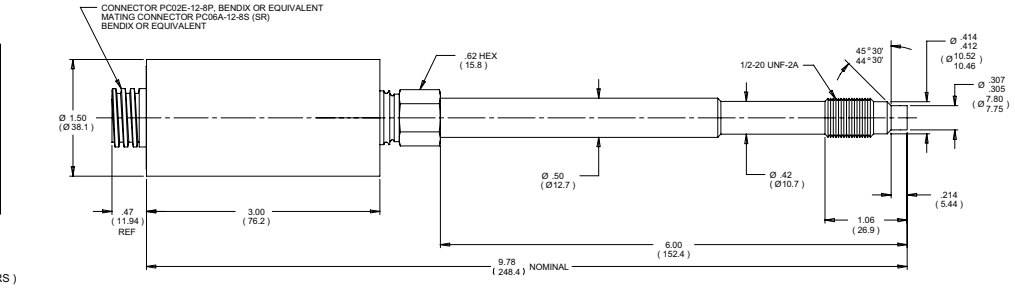
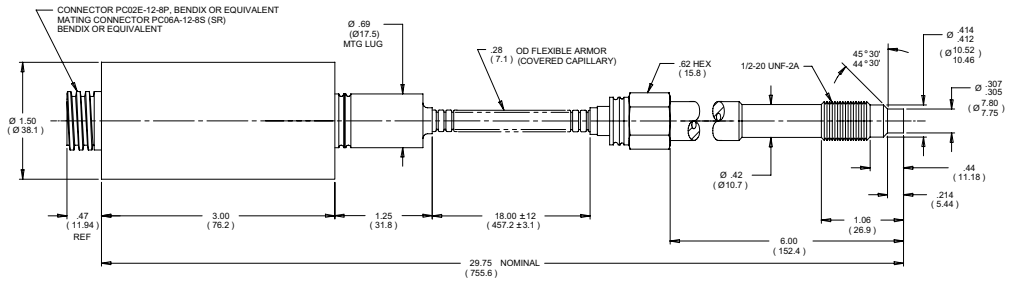
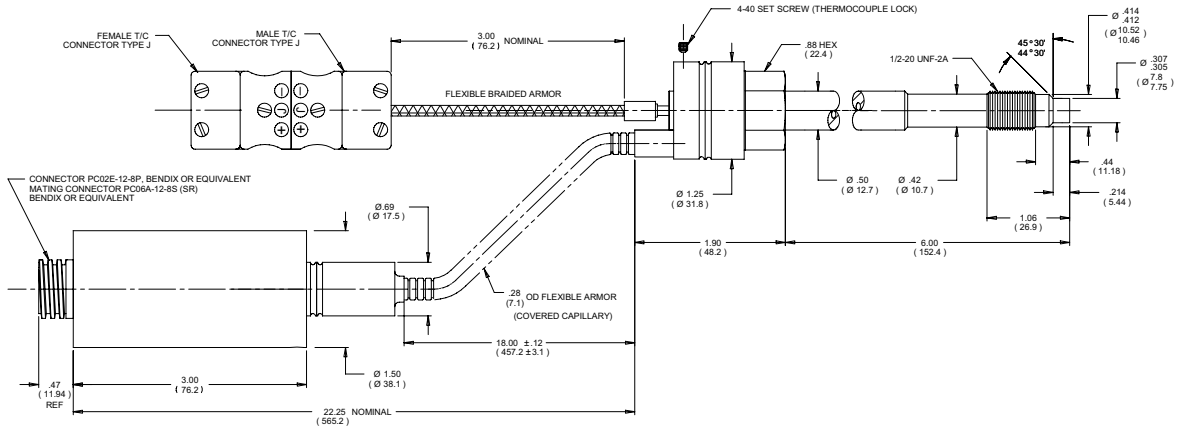


CONNECTOR WIRING	
PIN	FUNCTION
A	EXCITATION +
B	SIGNAL +
C	EXCITATION -
D	SIGNAL -
E	INTERNAL CALIBRATION RESISTOR
F	
G	NO CONNECTION
H	

NOTES
1. DIMENSIONS ARE IN INCHES (MILLIMETERS)







All dimensions are inches (mm).