



# PT410/412 Alternate Fill Pressure Sensors

IDEAL FOR FOOD OR MEDICAL APPLICATIONS



### Description

The PT410 Series transducer is a  $\pm 0.25\%$  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 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.

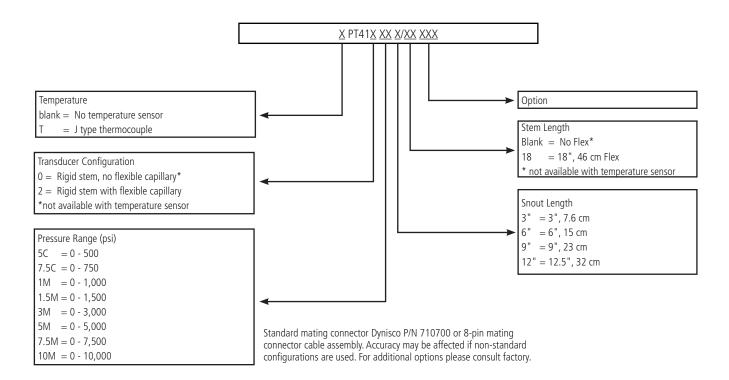
#### **Features**

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

Performance Characteristics		Temperatur
Output:	3.33 mV/V ± 2.0%	Max Diaphragr
Input Voltage:	10 Vdc recommended, 12 Vdc maximum	Zero Shift (Due To Tempe
	± 0.25% FSO, (Including Linearity,	Electronics Op Temperature:
Combined Error:	Repeatability & Hysteresis) $\pm$ 0.5% FSO for 500, 750, 1,000 psi ranges	Zero Shift (Due to Temper
Repeatability:	± 0.1%FS0, ± 0.2% FS0 for 500, 750, 1,000 psi ranges	Sensitivity Shif (Due to Temper
Configuration:	Four-arm bonded foil Wheatstone bridge	Mounting Torqu
	strain gage	Standard Wette
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% FS0	
Internal Shunt Calibration (R-Cal):	80% FSO ± 0.5%	
Insulation Resistance:	1000 megohms @ 50 Vdc	

Town evolution 0. Machanical Observatoristics		
Temperature & Mechanical Characteristics		
Max Diaphragm Temperature:	1000°F (538°C)	
Zero Shift	30 psi/100°F Typical	
(Due To Temperature Change):	(54 psi/100°C)	
Electronics Operating Temperature:	250°F (121°C)	
Zero Shift	± 0.01% FS/oF max	
(Due to Temperature Change):	(± 0.02% FS/oC max)	
Sensitivity Shift (Due to Temperature Change):	± 0.005% FS/°F max (± 0.01% FS/°C max) ± 0.01% FS/°F max (± 0.02% FS/°C max) for 500, 750, 1,000 psi ranges	
Mounting Torque:	500 inch/lbs. maximum	
Standard Wetted Parts:	Inconel 718	

## **Ordering Guide for PT410/412**



## **Dimensions**

