

PT 460 | 462 | TPT 463

Pressure Sensors

*High Accuracy, Simple Installation, Repeatability
And Reliability*



Description

The Dynisco PT420 Series transducer is a $\pm 0.25\%$ sensor ideal for melt pressure applications requiring high accuracy, simple installation, repeatability and reliability. The PT460 Series transducer is a $\pm 0.5\%$ sensor ideal for melt pressure applications requiring simple installation, repeatability and reliability. The PT420 and PT460 transducers provide the industry standard 3.33 mV/V signal designed to work with most pressure indicators. The PT comes equipped with an eight pin Bendix connector. The PT460 comes equipped with a six pin bendix connector. Optional thermocouple or RTD configurations are available to provide melt temperature. The PT420 and PT460 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 $\pm 0.25\%$ - $\pm 0.5\%$
- DyMax® coated stainless steel wetted parts
- Proven sensor design
- Excellent thermal stability and repeatability
- 0 - 500 to 0 - 30,000 psi
- Internal 80% shunt calibration

Performance Characteristics	
Pressure Range:	0-17 bar to 0-2000 bar
Accuracy:	PT420 $\pm 0.5\%$ f.s.v. (up to 50 bar $\pm 1\%$ f.s.v.); PT460 $\pm 1\%$ f.s.v.
Repeatability:	PT420 $\pm 0.1\%$ f.s.v. (up to 50 bar $\pm 0.2\%$ f.s.v.); PT460 $\pm 0.2\%$ f.s.v.
Resolution:	Infinite
Maximum Overload (without influencing operating data):	2x pressure range for range 1000 and 1400 bar max. 1750 bar and max. 2400 bar for range 2000 bar
Burst Pressure:	6x pressure range max. 3000 bar
Material in Contact with Media:	15-5 PH SST (Mat. No. 1.4545) DyMax [®] coated

Temperature Influence	
Diaphragm	
Max. Temperature:	400°C
Zero Shift Due to Temperature Change:	PT420 <0.2 bar / 10°C PT460 <0.4 bar / 10°C
Housing	
Max. Temperature:	120°C
Zero Shift Due to Temperature Change:	PT420 $\pm 0.2\%$ f.s.v./10°C PT460 $\pm 1.0\%$ f.s.v./10°C
Sensitivity Shift Due to Temperature Change:	PT420 $\pm 0.1\%$ f.s.v./10°C (up to 50 bar $\pm 0.2\%$ f.s.v./10°C); PT460 $\pm 0.4\%$ f.s.v./10°C
Electrical Characteristics	
Configuration:	4-arm Wheatstone bridge strain gage
Internal Shunt Calibration:	80% f.s.v $\pm 0.5\%$ PT420 $\pm 1.0\%$ PT460
Output Signal:	3.33 mV/V
Supply Voltage:	10 V DC, max. 12 V DC
Zero Balance:	$\pm 5\%$ f.s.v PT420 $\pm 10\%$ f.s.v PT460
Strain Resistance:	350Ω
Leakage Resistance:	1000MΩ at 50 Vdc

ACCESSORIES

Cleaning Tool Kit, Machining Tool Kit, Indicator 1490, Process Readout UPR900, Process Controller ATC990. For additional options please contact the factory.

Ordering Guide for PT 460 | 462 | TPT 463



