



PT460DN Series



Features

- Pressure signal via a 4 byte polled I/O message
- Watch dog alarms
- Better than +/- 0.5% combined error
- 0 - 500 to 0 -30,000 psi
- 1/2"-20 UNF, M18, et al. process connections

Benefits

- Standard DeviceNet™ protocol
- Output supplied digitally to controller
- Internal transmitter diagnostics
- Precise pressure measurements
- Customer-defined pressure ranges
- Meets EU requirements

Description

The PT462DN melt pressure transmitters are designed to be easily integrated directly into sophisticated DeviceNet™ control systems. The sensor functions and communication software is in accordance with the standard DeviceNet™ Version 2.0 protocol. The digital pressure value is available via a 4 byte polled I/O message. The bi-directional bus-communication is combined with internal functions such as transducer set up and calibration, open gage detection, over-range notification, CPU watch dog control, et. al. to provide more versatile operating conditions and security functions compared to a standard analog transmitter. Optional thermocouple or RTD configurations are available to provide melt temperature with standard thermocouple or RTD outputs.

Specifications

PERFORMANCE CHARACTERISTICS

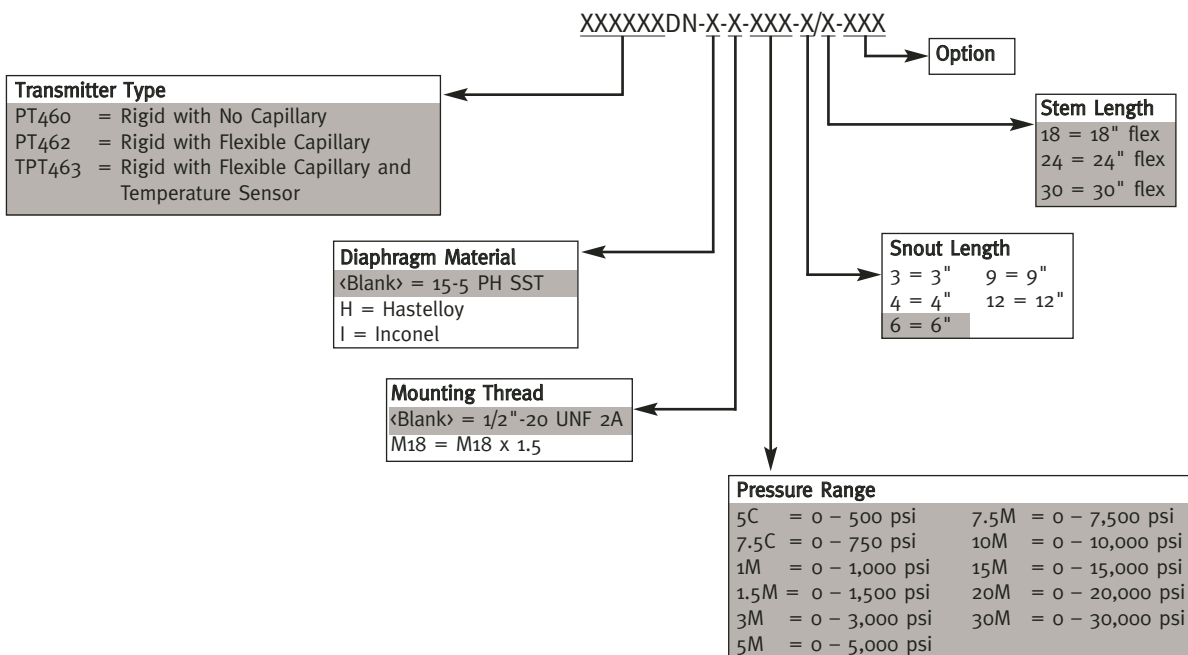
Output: DeviceNet™
Input Voltage: 11 - 25 Vdc
Combined Error: +/- 0.5% FSO
 (Including Linearity, Repeatability & Hysteresis)
Repeatability: +/- 0.2% FSO
Burst Pressure: 2 X FSO or 35,000 psi which ever is less
Isolation Resistance: > 1 MOhm @ +/- 500 Vdc,
 > 100 MOhms @ 50 Vdc
Sampling Rate: 20 mS
Alarms: 2 High & 2 Low User Selectable Alarm Points
Message Types: Polled & Explicit
Node ID & Communication Rate: Software Selectable
Communication Rates: 125, 250 & 500 kbits/second
DeviceNet Device Profile: Generic

TEMPERATURE & MECHANICAL CHARACTERISTICS

Max Diaphragm Temperature: 750°F (400°C)
Zero Shift (due to temperature change):
 25 psi/100°F Typical (45 psi/100°C)
Electronics Operating Temperature:
 -5° to 185°F (-20° to 85°C)
Effects over Compensated Temperature Range of
 -5° to 185°F (-20° to 85°C)
Zero: 0.01% FSO/°F max
Span: 0.01% FSO/°F max
Predefined Master/Slave Connection SFT:
 Group 2 Only Slave
Mounting Torque: 500 inch/lbs. maximum
Standard Wetted Parts: Dymax® coated 15-5 PH SST



Ordering Guide



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

