



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:

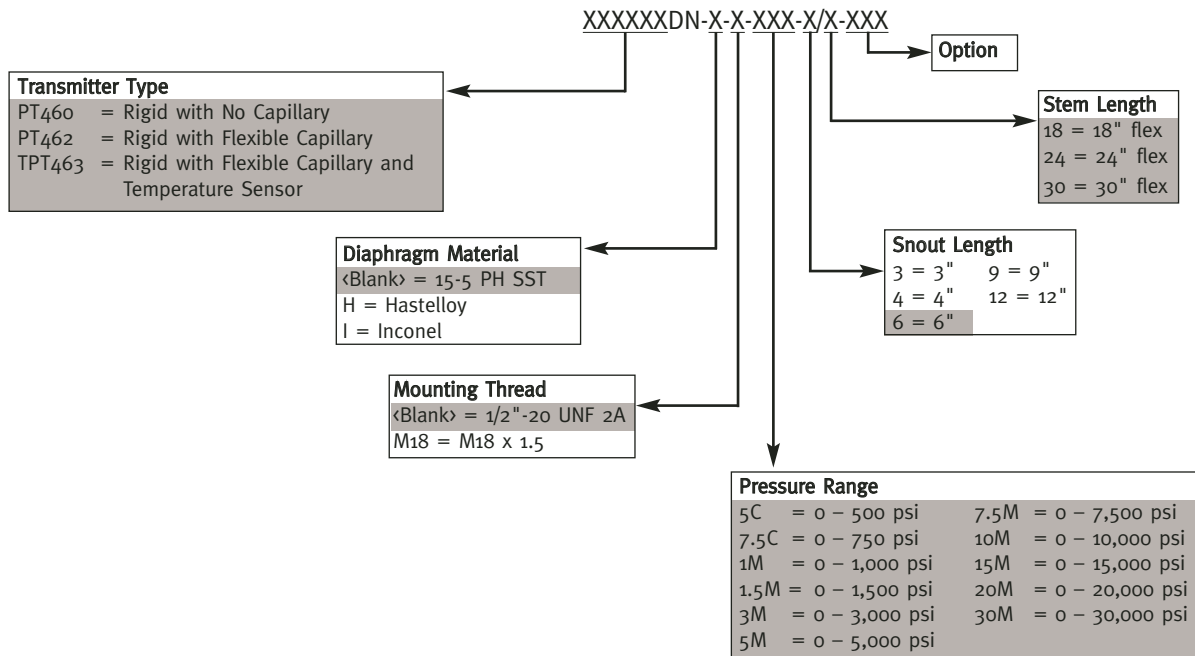
Group 2 Only Slave

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.

