PT462DN 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, etc. 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, etc. 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: Pollled & 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:
-50°F to 185°F (-20°C to 85°C)
Effects over Compensated Temperature Range of
-50°F to 185°F (-20°C 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

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Ordering Guide

Transmitter Type
- PT460 = Rigid with No Capillary
- PT462 = Rigid with Flexible Capillary
- TPT463 = Rigid with Flexible Capillary and Temperature Sensor

Option
XXX
DN-X
-X
/X

Diaphragm Material
- (Blank) = 15-5 PH SST
- H = Hastelloy
- I = Inconel

Mounting Thread
- (Blank) = 1/2"-20 UNF 2A
- M18 = M18 x 1.5

Pressure Range
- 5C = 0 – 500 psi
- 7.5C = 0 – 750 psi
- 1M = 0 – 1,000 psi
- 1.5M = 0 – 1,500 psi
- 3M = 0 – 3,000 psi
- 5M = 0 – 5,000 psi
- 7.5M = 0 – 7,500 psi
- 10M = 0 – 10,000 psi
- 15M = 0 – 15,000 psi
- 20M = 0 – 20,000 psi
- 30M = 0 – 30,000 psi
- 35M = 0 – 35,000 psi
- 50M = 0 – 50,000 psi

Stem Length
- 18 = 18" flex
- 24 = 24" flex
- 30 = 30" flex

Snout Length
- 3 = 3"
- 6 = 6"
- 9 = 9"
- 12 = 12"

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