

# PTX 1240

## Industrial Pressure Transmitter

- Accuracy:  $\pm 0.25\%$
- NACE compatible
- Low cost
- Class I, Div 1 intrinsically safe
- Class I, Div 1 explosion proof
- Class 1, Div 1 nonincendive



The PTX 1240 industrial pressure transmitter has been designed for use with aggressive pressure media found in many industrial and process applications.

The fully welded 316L stainless steel pressure module ensures excellent media compatibility without compromising performance of Druck's micromachined silicon pressure sensing element.

The PTX 1240 incorporates developments from aerospace applications and high volume manufacturing advances to achieve excellent performance at competitive pricing. Industry demands for rapid delivery are met by holding fully compensated semi-finished stock of the most common ranges.

The integral 2-wire, 4-20 mA electronics provides power supply regulation, reverse polarity, overvoltage and EMC protection.

The PTX 1240 is intrinsically safe and explosion proof certified, thus making it suitable for use in the oil and gas industry.

This transmitter features a compact, rugged design with field proven electronics to ensure long term reliable measurement at an economical price.

# Industrial Pressure Transmitter

### STANDARD SPECIFICATION

#### Operating Pressure Ranges

0 to 2.5, 5, 10 psig;  
 0-15, 30, 50, 60, 100, 150, 200, 300, 500, 600, 750 psig or psia;  
 0 to 1000, 1500, 2000, 3000, 5000, 7500, 10,000, 15,000 psi sg or psia;  
 -15 to 30 psig; 0 to -5 psig and 0 to -15 psig;  
 11.5 to 17.0 psia (Barometric)  
*Please refer to manufacturer for additional ranges. Venting is provided by a flame arresting filter designed to allow the transmitter to breathe while preventing the ingress of fluids.*

#### Overpressure

The rated pressure can be exceeded by the following without degrading performance:  
 4X for ranges to 900 psig  
 2X for ranges 1000 to 10,000 psi sg  
 1.5X for range 15,000 psi

#### Pressure Containment

6X full scale for vented gauge  
 2500 psi for all absolute and sealed gauge ranges 2000 psi and below  
 20,000 psi for all absolute and sealed gauge ranges above 2000 psi

#### Pressure Media

Fluids compatible with 316L stainless steel and Hastelloy C276 (NACE compatible)

#### Supply Voltage

9-30 Vdc (across the transmitter terminals). The minimum total supply voltage requirement will be:  
 $V_S = 9 + (0.02 \times R_L)$   
 Where  $V_S$  is supply voltage in volts  $R_L$  is total loop resistance in ohms

#### Output Current

4-20 mA (two-wire configuration)  
 Consult factory for availability of low-power 1-5 Vdc PMP 1240

#### Zero and Span Offset

±0.5% FS

#### Long Term Stability

±0.2% FS per annum

#### Combined Non-linearity, Hysteresis and Repeatability

±0.25% FS BSL maximum

#### Temperature Limits

Process: -40° to +250°F  
 Storage: -50° to +185°F  
 Compensated: -4° to +176°F

#### Operating Temperature Range

-40° to +185°F

#### Temperature Effects

±2% FS typically; ±3% FS maximum  
 Thermal Error Band over Compensated Temperature Range

#### Weight

10 oz. nominal

#### Pressure Connection

1/4" NPT female ranges to 10,000 psi  
 3/8" Autoclave, SF375 CX 20STD for 15,000 psi optional for 10,000 psi

#### Electrical Connection

1/2" NPT male conduit fitting with 3 feet of cable (18 AWG conductors)  
 Additional cable available upon request

#### Ingress Protection

Designed to meet Nema 4X when properly installed with conduit fitting connection

#### Voltage Spike Protection

Units will withstand 600V spike test to ENV 50142 without damage applied between excitation lines and case

#### Safety Classifications

UL intrinsically safe for Class I, Div 1, Groups A, B, C, D; Class II, Groups E, F, G  
 cUL intrinsically safe for Class I, Div 1, Groups A, B, C, D; Class II, Groups E, F, G

#### Factory Mutual Approvals

Intrinsically safe for  
 Class I, Div 1, Groups A, B, C, D;  
 Class I, Div 2, Groups A, B, C, D;  
 Class II, Groups E, F, G;  
 Class III for hazardous locations

#### Explosion proof for

Class I, Div 1, Groups A, B, C, D;  
 Class I, Div 2, Groups A, B, C, D;  
 Class II, Groups E, F, G;  
 Class III for hazardous locations

#### Canadian Standards Association (CSA)

#### Approvals

Intrinsically for Class I, Div 1, Groups A, B, C, D; Class I, Div 2, Groups A, B, C, D; Class II, Groups E, F, G; Class III for hazardous locations.

Explosion proof for Class I, Div 1, Groups A, B, C, D; Class I, Div 2, Groups A, B, C, D; Class II, Groups E, F, G; Class III for hazardous locations

### OPTIONS

#### Pressure port:

1/2" NPT female via adapter  
 1/4" NPT male via adapter  
 1/2" NPT male, welded adapter

#### Conduit fitting:

1/2" NPT female, via adapter  
 CSA/FM/UL Approval (state which logo on transducer)

Extra Cable Length (state length in feet or meters)

NIST Room Temperature 9-pt Calibration Certificate

Alternate Engineering Units (equivalent to standard psi ranges)

### ORDERING INFORMATION

Please state the following:

- (1) Type number
- (2) Pressure range
- (3) Cable length
- (4) Options

### RELATED PRODUCTS

PMP 1240 Low power  
 PTX 1230 Submersible  
 DPI 610 Portable Calibrators  
 DPI 280 Indicator Series

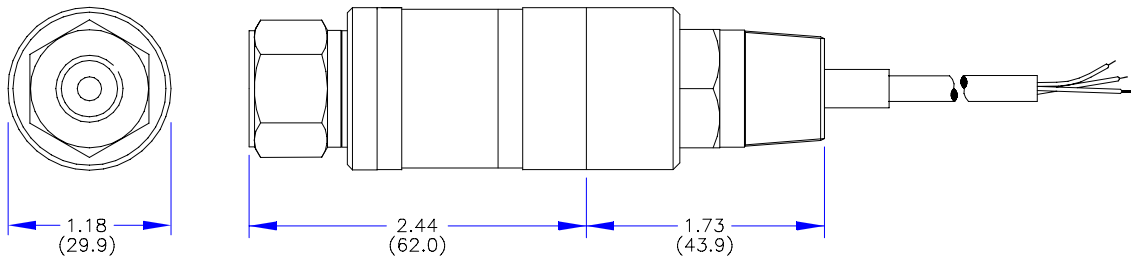
Please refer to the manufacturer for further information and data sheets.

*Continuing development sometimes necessitates specification changes without notice.*

**Druck is an ISO 9001 registered company.**



## INSTALLATION DRAWINGS: Dimensions in inches/(mm)



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