

Features

- Accuracy: $\pm 0.25\%$ full scale (FS) best fit straight line (BSL)
- NACE compatible
- Low cost
- Class I, Division 1 intrinsically safe
- Class I, Division 1 explosion proof

The PMP 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 PMP 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 low power, three-wire, 1 to 5 VDC electronics provides power supply regulation, reverse polarity, overvoltage and EMC protection.

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

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

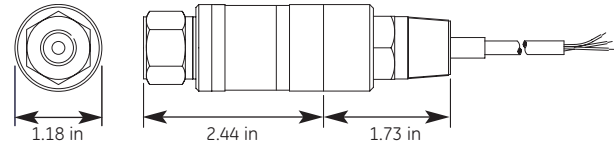
PMP 1240

Druck Industrial Pressure Transmitter

PMP 1240 is a Druck product. Druck has joined other GE high-technology sensing businesses under a new name—GE Industrial, Sensing.



PMP 1240 Specifications



Operating Pressure Ranges

- 0 to 2.5, 5, 10 psig
- 0 to 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

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 psi to 10,000 psi sg
- 1.5X for range 15,000 psi

Pressure Containment

6X FS 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

8 to 30 VDC

Current

<2 mA

Output Voltage

1 to 5 VDC

Consult factory for availability of 4 to 20 mA (PTX 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°F to 250°F
- Storage: -50°F to 185°F
- Compensated: -4°F to 176°F

Operating Temperature Range

-40°F 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 in NPT female ranges up to 10,000 psi
- 3/8 in Autoclave, for 15,000 psi range

Electrical Connection

1/2 in NPT male conduit fitting with 3 ft of cable (18 AWG conductors)

Additional cable available upon request

Ingress Protection

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

Voltage Spike Protection

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

PMP 1240 Specifications

Safety Classifications

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

Factory Mutual Approvals

Intrinsically safe for:

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

Explosion-proof for:

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

Canadian Standards Association (CSA)

Approvals

Intrinsically safe in hazardous locations as designed by:

- Class I, Division 1, Groups A,B,C&D;
- Class I, Division 2, Groups A,B,C&D;
- Class II, Groups E,F&G;
- Class III

Explosion-proof in hazardous locations as designed by:

- Class I, Division 1, Groups A,B,C&D;
- Class I, Division 2, Groups A,B,C&D;
- Class II, Groups E,F&G;
- Class III

Options

Pressure port:

- 1/2 in NPT female via adapter
- 1/4 in NPT male via adapter
- 1/2 in NPT male, welded adapter

Conduit fitting:

- 1/2 in NPT female, via adapter CSA/FM/UL Approval (state which logo on transducer)
- Extra cable length (state length in feet or meters)
- National Institute of Standards and Technology (NIST) room temperature nine-point calibration certificate
- Alternate engineering units (equivalent to standard psi ranges)

Related Products

- PTX 1240: Two wire, 4 to 20 mA
- PTX 1230: Submersible
- MDK-24: Lightning arrestor
- DPI 610: Portable calibrators
- DPI 280: Indicator series

Ordering Information

Please state the following:

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

GE
Sensing



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920-316A

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