

PMP 1240

Industrial Pressure Transmitter

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



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, 3-wire, 1-5Vdc electronics provides power supply regulation, reverse polarity, overvoltage and EMC protection.

The PMP 1240 is intrinsically safe and explosionproof 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.

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;

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

8-30 Vdc

Current

< 2mA

Output Voltage

1-5 Vdc
Consult factory for availability of 4-20mA (PTX 1240)

Zero and Span Offset

±0.5% full scale

Long term Stability

±0.2% full scale per annum

Combined Non-linearity, Hysteresis and Repeatability

±0.25% full scale 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 up to 10,000 psi
3/8" Autoclave for 15,000 psi range

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, Grps A, B, C, D;
Class II, Grps E, F, G

cUL intrinsically safe for

Class I, Div 1, Grps A, B, C, D;
Class II, Grps E, F, G

Factory Mutual Approvals

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

Explosionproof for

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

Canadian Standards Association

(CSA) Approvals

Intrinsically safe in hazardous locations as designed by Class I, Div 1, Grps A, B, C, D; Class I, Div 2, Grps A, B, C, D; Class II, Grps E, F, G; Class III

Explosionproof in hazardous locations as designed by

Class I, Div 1, Grps A, B, C, D;
Class I, Div 2, Grps A, B, C, D;
Class II, Grps E, F, G;
Class III

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

PTX 1240 2 wire, 4-20mA
PTX 1230 Submersible
MDK-24 Lightning Arrestor
DPI 610 Portable Calibrators
DPI 280 Indicator Series

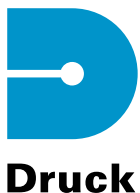
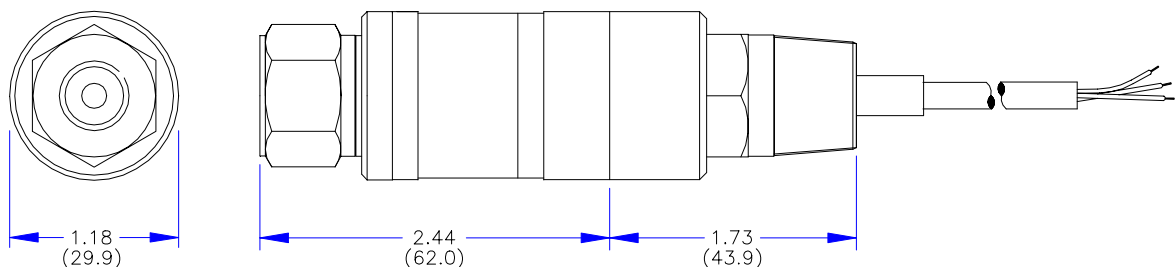
Please refer to the manufacturer for further information and data sheets.

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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Representative