

PTX/PMP 1400 Series

GE Druck

Industrial Pressure Sensors

- Pressure ranges to 600 bar
- Gauge and absolute formats
- 0 to 5 V or 4-20 mA outputs
- 0.15% typical accuracy
- Low cost, Ex-stock delivery
 - Intrinsically Safe, CE marked, PED compliant



PTX/PMP 1400 Series

Industrial Pressure Sensors

STANDARD SPECIFICATIONS

Operating Pressure Ranges

0 to 100, 250, 400, 600mbar, 1, 1.6, 2.5, 4, 6, 10, 16, 25, 40, 60 bar gauge and absolute. 0 to 100, 160, 250, 400, 600 bar sealed gauge and absolute

Barometric (PTX 1400 only) 800 to 1200 mbar abs.

- -1 to 1.6 bar gauge (compound)
- -1 to 2.5 bar gauge (compound)
- -1 to 4 bar gauge (compound)

Overpressure

The rated pressure range can be exceeded by the following without degrading performance:

- 1 bar for 100 and 250mbar ranges
- 2 bar for 400 and 600mbar ranges
- 2 x (180 bar max) for ranges 1 bar to 100 bar
- 2 x (900 bar max) for ranges 160 to 600 bar.

Pressure Media

Fluids compatible with a fully welded assembly of 316 stainless steel and Hastelloy C276.

Supply Voltage

PMP 1400: 9 to 30V d.c.

PTX 1400: 9 to 28V d.c. Min supply voltage that must appear across transmitter terminals is 9V and is given by Vmin= Vs - (0.02 x RL) where Vs = supply volts, RL = total loop ohms

Output Voltage

PMP 1400: 0 to 5V (3 wire pedestal configuration) (calibrated between 5-100% FS) PTX 1400: 4-20mA (2 wire configuration)

Load Impedance (PMP version)

Greater than 100k ohms for quoted performance.

Zero Offset and Span Setting

Factory set to 0.5%, then 5% site adjustable by sealed, non-interacting potentiometers.

Long Term Stability 0.2% FS range per annum typical.

Accuracy

Combined Non-linearity, Hysteresis and Repeatability: 0.15% typical, 0.25% maximum Best Straight Line Definition.

Operating Temperature Range

-20° to 80°C.

Temperature Effects

Total Error Band 1.5% typical, 2% maximum, -20° to 80°C. For ranges below 400mbar values increase pro-rata with calibrated span.

Weight

200 grams nominal

Pressure Connection

G1/4 female

Electrical Connection

DIN 43650 plug supplied with mating socket.

Ingress Protection

Sealed to IP65

Voltage Spike Protection

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

Safety

EMC emissions EN50081-1 **EMC Immunity** EN50082-1 Certification CE marked. PED compliant.CE Category 1 Pressure Accessory to Pressure Equipment Directive (PED) 97/23/EC. Note: 'Operating Pressure Range' is equivalent to maximum working pressure (Ps) as referred to in the PED.

PTX 1400 supplied Intrinsically Safe certified as standard, for use with barrier systems to Ex 97D 2058 EEx ia IIC T4 amb 80°C.

OPTIONS

- (B) Screw-in male/male adaptors with bonded seal G1/4 male (P/N 190-040) 1/4 NPT male (P/N 190-038) 7/16 UNF male to MS 33656 (P/N 190-042) M14 x 1.5 male (P/N 190-036) G1/2 (pressure gauge) (P/N 190-039) All adaptors 316 stainless steel construction.
- (C) Vented 6 core cable (5.7mm) (P/N 192-004) Specify required length on order.
- (D) Pressure snubber adaptor (DA0839-1-02) Screw in adaptor providing a G1/4 female thread. Protects against unwanted fast transient pressure spikes. Refer to Snubber Product Note for further detail.

ORDERING INFORMATION

Please state the following:

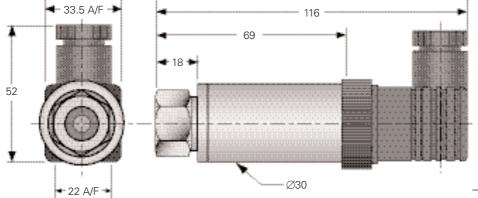
- Type number PTX 1400 or PMP 1400
- Operating pressure range
- Gauge or absolute
- Options As above. Order as separate line items (supplied unfitted).

RELATED PRODUCTS

GE Druck manufactures a comprehensive range of pressure sensors, indicators, controllers and calibrators. Product datasheets available.

Continuing development sometimes necessitates specification changes without notice.

INSTALLATION DRAWINGS - Dimensions in mm



Electrical Connection PIN 1 +ve supply PIN 2 -ve supply PIN 3 (PMP 1400 only) +ve output





Group



