# PRESSURE TRANSMITTER

### PTX19 SERIES

- > Measuring Range (0.1 to 1000) bar
- > Atex Gas & Dust Approved Version
- > 2 wire (4 to 20) mA output
- High Temperature Stability
- Choice of Process Connection
- Compact and Robust
- > Reverse Polarity and Short Circuit Protection



## **INTRODUCTION**

The PTX19 is a high quality 2 wire pressure transmitter providing a 2 wire (4 to 20) mA output over a wide pressure range. The piezoresistive element provides excellent accuracy and stability in an all welded stainless steel housing. The body of the product is oil filled and coupled with high accuracy electronics, this enables the product to maintain a very high level of accuracy and temperature stability when used with high temperature processes. There are a number of process connections to choose from, and measurement ranges of any value between 100 mbar to 1000 bar can be ordered making the PTX19 a very versatile product suitable for many applications.

## SPECIFICATION @ 20°C

Туре	Gauge or Absolute			
Pressure Range	(0 to 1000) bar			
Overpressure (0.1 to 0.5) bar (>0.5 to 2) bar (>2 to 600) bar (>600 to 1000) bar	3 bar 3 x FS (min. 3 bar 3 x FS (Max. 850 b 1500 bar	,		
Burst Pressure (0.1 to 2) bar (>2 to 600) bar (>600 to 1000) bar	=>200 bar =>850 bar =>1500			
Total Error Band (: (0.1 to 0.5) bar	± % FS)*1			
(0 to 70) °C Ty <sub>l</sub>	pical/Maximum pical/Maximum	1.0/1.5 2.0/2.5		
(0 to 70) °C Ty <sub>l</sub>	pical/Maximum pical/Maximum	0.7/1.0 1.0/1.5		
Accuracy *2 Standa Option				
*1 Total Error Band indicated accuracy, temperature influences, temperature error zero and span, hysteresis and repeatability by				

maximum signal span (16 mA)

*2 Zero based non-conformity according to
DIN16086, including hysteresis and repeatability
by ambient temperature

Medium Temperature Ambient Temperature Storage Temperature	e (-40 to 125) °C
Response Time	<1ms / (10 to 90) % FS
Long Term Stability	
(0.1 to 0.5) bar	
(Typical)	<0.5 %FS
(Maximum)	<4 mbar
(>0.5 to 2) bar	
(Typical)	<0.2 %FS
(Maximum)	<4 mbar
(>2 to 1000) bar	
(Typical)	<0.1 %FS
(Maximum)	<0.2 %FS
(Maximam)	10.2 /01 J
Output	(4 to 20) mA two wire
Supply Voltage	(9 to 33) V DC
Atex Version	(9 to 30) V DC

**Supply Voltage Influence** Typically <0.05 % FS

Load Resistance Rl = (V supply -9)0.02 A

Load Resistance Influence <0.05 %FS



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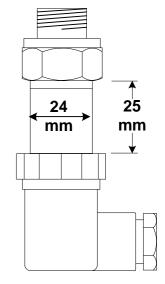
Material Diaphragm, Process Connection & Housing Stainless Steel 1.4435

**Approvals** 

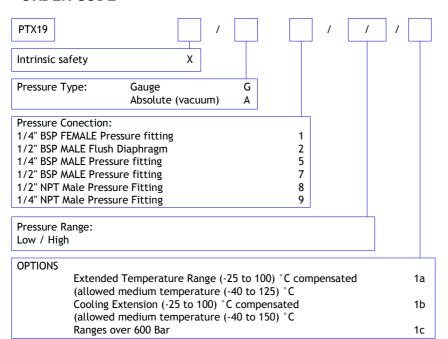
Vibration EN 60068-2-6 Shock EN 60068-2-27 Emission, Class B EN55022 Generic Immunity EN 61000-4-2 Electrostatic discharge EN 61000-4-3 Fast Transients (burst) EN 61000-4-4 Surge EN 61000-4-5 Conducted radio-Frequency EN 61000-4-6

Ex-Approval gas / dust
II 1G Ex ia IIB / IIC T3...T6
II 1D Ex iad 20 IP6x T145...T70 °C

Temperature class	T6	T4	T3
Ambient Temperature Ta	(-40 to 50)°C	(-40 to 85)°C	(-40 to 125)°C
Process Temperature	(-40 to 50)°C	(-40 to 110)°C	(-40 to 150)°C



#### **ORDER CODE**



EXAMPLE: PTX19/G/5/100/500/1a

Pressure Transmitter/Non IS/Gauge/1/4" BSP MALE Pressure fitting/

Extended Temperature Range (-25 to 100) °C

