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		*2 Zero based non-conformity according to DIN16086, including hysteresis and repeatability by ambient temperature		
Pressure Range	(0 to 1000) bar				
			Medium Temperature	(-40 to 150) °C	
Overpressure			Ambient Temperature	(-40 to 125) °C	
(0.1 to 0.5) bar	3 bar		Storage Temperature	(-40 to 125) °C	
(>0.5 to 2) bar	3 x FS (min. 3 bar	r)			
(>2 to 600) bar	3 x FS (Max. 850 l	bar)	Response Time	<1ms / (10 to 90) % FS	
(>600 to 1000) bar	1500 bar				
			Long Term Stability		
Burst Pressure			(0.1 to 0.5) bar		
(0.1 to 2) bar	=>200 bar		(Typical)	<0.5 %FS	
(>2 to 600) bar	=>850 bar		(Maximum)	<4 mbar	
(>600 to 1000) bar	=>1500		(>0.5 to 2) bar		
х , , , , , , , , , , , , , , , , , , ,			(Typical)	<0.2 %FS	
Total Error Band	(± % FS) ^{*1}		(Maximum)	<4 mbar	
(0.1 to 0.5) bar	,		(>2 to 1000) bar		
(0 to 70) °C Ty	pical/Maximum	1.0/1.5	(Typical)	<0.1 %FS	
(-25 to 100) °C Ty	pical/Maximum	2.0/2.5	(Maximum)	<0.2 %FS	
(>0.5 to 1000) bar			· · · ·		
	pical/Maximum	0.7/1.0	Output	(4 to 20) mA two wire	
(-25 to 100) °C Ty	, pical/Maximum	1.0/1.5	•		
· · · ·			Supply Voltage (9	to 33) V DC	
Accuracy *2 Standa	ard <= ± 0.25 % FS	5	Atex Version (9	to 30) V DC	
Option	nal <= ± 0.1 % FS		,	,	
		Supply Voltage Influence Typically <0.05 % FS			
*1 Total Error Band in	dicated accuracy,		11 9 9	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
temperature influences, temperature error zero			Load Resistance Rl	=(V supply -9)	
and span, hysteresis and repeatability by				0.02 A	
maximum signal span					
······································		Load Resistance Influence <0.05 %FS			
5 1			Load Resistance Influen	ce <0.05 %FS	

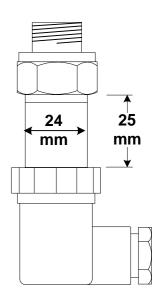


PRESSURE TRANSMITTER

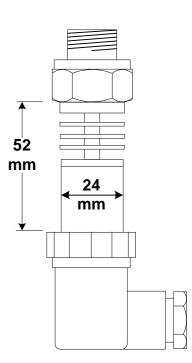
Material		, Process Connection & Stainless Steel 1.4435
Approvals		
Vibration		EN 60068-2-6
Shock		EN 60068-2-27
Emission, Class	s B	EN55022
Generic Immu	nity	EN 61000-4-2
Electrostatic d	lischarge	EN 61000-4-3
Fast Transient	s (burst)	EN 61000-4-4
Surge		EN 61000-4-5
Conducted rad	lio-Frequen	cy EN 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	Т3
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 PTX19 1 1 Intrinsic safety Х Pressure Type: G Gauge Absolute (vacuum) Α Pressure Conection: 1/4" BSP FEMALE Pressure fitting 1 1/2" BSP MALE Flush Diaphragm 2 5 7 1/4" BSP MALE Pressure fitting 1/2" BSP MALE Pressure fitting 1/2" NPT Male Pressure Fitting 8 1/4" NPT Male Pressure Fitting 9 Pressure Range: Low / High OPTIONS Extended Temperature Range (-25 to 100) $\,^\circ\text{C}$ compensated 1a (allowed medium temperature (-40 to 125) °C Cooling Extension (-25 to 100) °C compensated 1b (allowed medium temperature (-40 to 150) °C Ranges over 600 Bar 1c



UMENT

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

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