### SUBMERSIBLE PRESSURE TRANSMITTER

#### PTX20 SERIES

- Measuring Range (0 to 1) mH2O to (0 to 250) mH2O
- High Temperature Stability
- Atex Gas & Dust Approved Version
- 2 wire (4 to 20) mA output
- Reverse Polarity and Short Circuit Protection



### **INTRODUCTION**

The PTX20 is a high quality level transmitter providing a 2 wire (4 to 20) mA output over a wide p. range. The piezoresistive element provides excellent accuracy and stability in an all welded stainless sceel housing. A titanium housing is available on request for more aggressive process media. 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 open and closed versions to choose from, and also a ballast weight can be specified too. Measurement ranges of any value between 1mH2O to 250mH2O can be ordered making the PTX2O a very versatile product suitable for many applications.

### SPECIFICATION @ 20°C

Туре	Gauge or Absolute		(>0.5 to 2) bar	
Burst Pressure	=>200 bar		(Typical) (Maximum) (>2 to 25) bar	<0.2 %FS <4 mbar
<b>Total Error Band</b>	(± % FS)*1		(Typical)	<0.1 %FS
(0.1 to 0.5) bar			(Maximum)	<0.2 %FS
(-5 to 50) °C	Typical/Maximum	1.0/1.5		
(-5 to 80) °C	Typical/Maximum	2.0/2.5	Output	(4 to 20) mA two wire
(>0.5 to 25) bar			·	,
(-5 to 50) °Ć	Typical/Maximum	0.7/1.0	Supply Voltage	(9 to 33) V DC
(-5 to 80) °C	Typical/Maximum	1.0/1.5	Atex Version	(9 to 30) V DC
Accuracy *2 Sta	andard <= ± 0.25 % F	<del>.</del> S	Supply Voltage Inf	luence Typically <0.05 % FS

<sup>\*2</sup> Zero based non-conformity according to DIN16086, including hysteresis and repeatability by ambient temperature

Medium Temperature Storage Temperature	(-5 to 80) °C (-10 to 80) °C		
Response Time	<1ms / (10 to 90) % FS		
Long Term Stability (0.1 to 0.5) bar (Typical) (Maximum)	<0.5 %FS <4 mbar		

Supply Voltage	Influence	Typically	< 0.05	% F:

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

Load Resistance Influence < 0.05 % FS

Diaphragm & Housing Material 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



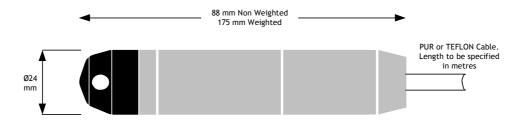
<sup>\*1</sup> Total Error Band including - accuracy. temperature influences, temperature error zero and span, hysteresis and repeatability by maximum signal span (16 mA)

### SUBMERSIBLE PRESSURE TRANSMITTER

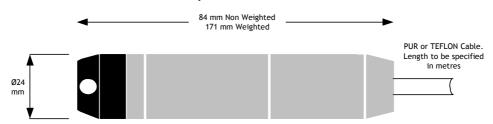
Ex-Approval gas / dust II 1G Ex ia IIB / IIC T3...T6 II 1D Ex iaD 20 IP6x T145...T70 °C

Temperature class	T6	T4	T3
Ambient Temperature Ta	(-5 to 50)°C	(-5 to 80)°C	(-5 to 80)°C
Process Temperature	(-5 to 50)°C	(-5 to 80)°C	(-5 to 80)°C

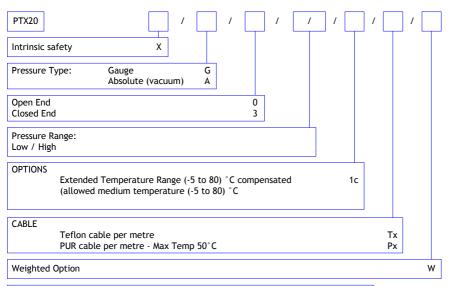
## **Closed Version**



# **Open Version**



#### **ORDER CODE**



EXAMPLE: PTX20/G/3/0.1/20/1c/P5

Pressure Transmitter/Non IS/Gauge/Closed End/100 mbar to 20 bar/ Extended
Temperature Range (-5 to 80) °C compensated (allowed medium temperature (-5 to 80) °C / 5 meters of PUR Cable / Non Weighted

