### PRESSURE TRANSMITTER

### PTX130 G1, G2, S1, S2, A1 & A2,

- > Measuring Range (>2 to 700) bar
- <0.25% FS Accuracy</p>
- Gauge, Sealed Gauge or Absolute Range
- 2 Wire 4/20mA or 3 Wire Voltage Output
- Choice of Process Connections

### **INTRODUCTION**



The PTX130 pressure transmitter series has a piezo-resistive ceramic pressure sensor giving it excellent media compatibility. Constructed of stainless steel, it is available with a wide variety of process connections, and every device is temperature compensated. The electronics are microprocessor based which means no manual adjustment is needed. The product can be ordered with current or voltage output and has excellent temperature stability.

### SPECIFICATION @ 20°C

Type Gauge, Absolute or Sealed Gauge

Pressure Range (1 to 700) bar

Nominal	Permissible	Burst Pressure		
Pressure (bar)	Overpressure (bar)	(bar)		
1	2	4		
2	4	5		
5	10	12		
10	20	25		
20	40	50		
50	100	120		
100	200	250		
250	400	500		
400	650	650		
600	880	880		
700	880	880		

Accuracy (non-linearity & hysteresis)

 $\leq$  ±0.25 % / Full Scale

Option  $\leq \pm 0.1 \%$  / Full Scale

Setting Errors (offsets)

Zero & Full Scale  $\leq \pm 0.5 \%$  / Full Scale

Thermal Zero Shift

 $\leq \pm 0.04 \% / \text{ Full Scale } / ^{\circ}\text{C}$ Option  $\leq \pm 0.02 \% / \text{ Full Scale } / ^{\circ}\text{C}$ 

 $\leq$  ±0.01 % / Full Scale / °C

Thermal Span Shift

≤ -0.015 % / °C

Standard Media Temperature (-20 to 135) °C

Ambient Temperature (-20 to 80) °C

Storage Temperature (-40 to 125) °C

**Compensated Temperature Range** 

(20 to 80) °C

Output (4 to 20) mA two wire Options (See order codes)

Supply Voltage (9 to 32) V DC (See order code for optional outputs supplies)

Supply Voltage Influence Typically < 0.05 % FS

Load Resistance

2-wire Rmax = (V supply -V supply min)

0.02

3-wire  $\begin{array}{ll} \text{Rmin} = 10 \text{ k}\Omega \\ \text{4-wire} & \text{Rmin} = 11 \text{ k}\Omega \\ \end{array}$ 

Load Influence 0.05~% FSO /  $k\Omega$ 

 $\label{eq:material} \textbf{Material} \qquad \qquad \textbf{Diaphragm, Ceramic Al}_2\textbf{O}_3\textbf{96}~\%$ 

Housing Stainless Steel 303

O Rings Viton

Process Connections G¼" male

Options (See order codes)

**Mechanical Stability** 

Shock 100 g / 11 ms

Vibration 10 g RMS (20 to 2000) Hz



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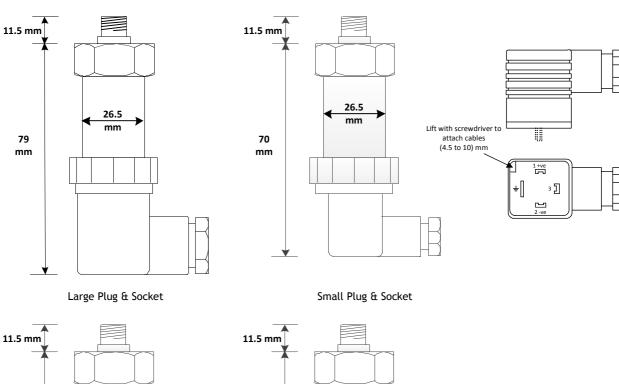
Typical Passive m/V/V Outputs

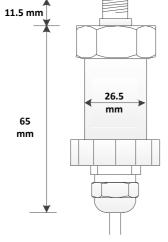
Nominal Pressure	Bar	1	2	5	10	20	50	100	250	400	600	700
Output	mV/V	2 to 3.5	2 to 4	2.4 to 4.5	3.6 to 6	2.5 to 4	4 to 6.5	3.1 to 4.8	3.1 to 4.8	3.1 to 4.8	3.7 to 5.7	4.3 to 6.7
Zero setting Error	mV/V	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Span Setting Error	%	30	30	30	30	30	30	30	30	30	30	30

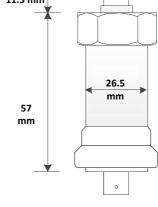
#### Wiring Designation

		Large Plug & Socket	Small Plug & Socket	IP66 Cable	AMP 6-Pin Bayonet	IP68 Vented cable	Binder 6-Pin Connector	M12x1 4 Pin Connector
2-Wire	+ve Supply	Pin 1	Pin 1	Red	Pin 1	Red	Pin 1	Pin 1
	-ve Supply	Pin 2	Pin 2	Blue	Pin 2	Blue	Pin 2	Pin 2
	Ground	Earth Pin	Earth Pin	Green	Earth Pin	White	Pin 3	Pin 3
3-Wire	+ve Supply	Pin 1	Pin 1	Red	Pin 1	Red	Pin 1	Pin 1
	-ve Supply	Pin 2	Pin 2	Blue	Pin 2	Blue	Pin 2	Pin 2
	+ve Output	Pin 3	Pin 3	Green	Pin 3	White	Pin 3	Pin 3
	Ground	Earth Pin	Earth Pin	Yellow	Earth Pin	Yellow	Pin 4	Pin 4
4-Wire	+ve Supply	Pin 1	Pin 1	Red	Pin 1	Red	Pin 1	Pin 1
	-ve Supply	Pin 2	Pin 2	Blue	Pin 2	Blue	Pin 2	Pin 2
	+ve Output	Pin 3	Pin 3	Green	Pin 3	White	Pin 3	Pin 3
	-ve Output	Earth Pin	Earth Pin	Yellow	Pin 4	Yellow	Pin 4	Pin 4

## **MECHANICAL**







Cable Gland Assembly

Amphenol Connector



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