

PTX15 PRESSURE TRANSMITTER

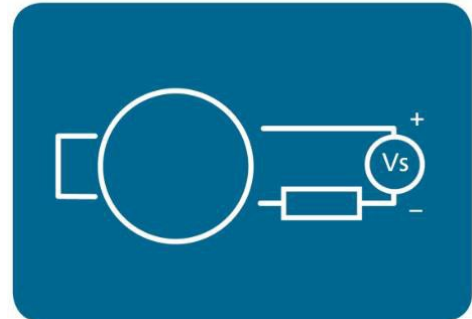
- **MEASURING RANGE FROM (0 to 100) mbar TO (0 to 600) bar**
- **HIGH TEMPERATURE STABILITY**
- **ATEX APPROVED VERSION**
- **2 WIRE (4 to 20) mA OUTPUT**
- **COMPACT AND ROBUST**

➤ INTRODUCTION

Two wire (4 to 20) mA output transmitters offering superb chemical and corrosion resistance.

Gauge or Absolute pressure is detected using a four active arm strain gauge bridge sensor, fused to a high-purity ceramic diaphragm.

Available from 100 mbar to 600 bar or scaled to customer requirements.



➤ FEATURE HIGHLIGHTS

TANK LINEARISATION (SEM1600VI)

When used with products like the Status Instruments SEM1600VI conditioning block (the SEM1600VI can also provide power for the PTX15), a user non-linear curve can be applied to the (4 to 20) mA signal to allow for volume measurement in non-linear shaped tanks.

FLEXIBLE

Any range between (0 to 0.05) bar and (0 to 600) bar can be selected with 100 mbar the smallest span available. Absolute and gauge options are both available.

RELIABLE

The PTX15 has excellent linearity and long-term stability to maintain process integrity.

ALARM RELAYS (SEM1636)

When the PTX15 is used with products like the Status Instruments SEM1636 (4 to 20) mA loop powered alarm, two independent alarm trips can be used. The SEM1636 can also be linearised for non-standard tanks.

PTX15 PRESSURE TRANSMITTER

SPECIFICATIONS @20°C		
Type/options	Range	Accuracy/stability/notes
< 1 bar range Output Span	16 mA	± 1%
< 1 bar range Output Zero	4 mA	± 1% of span
< 1 bar range Thermal Zero drift		± 0.04% span/°C
< 1 bar range Thermal Span drift	Typical	±0.015% reading/°C
< 1 bar range Temperature	Compensated Operating	(0 to 80) °C (-20 to 125) °C
> 1 bar range Output Span	16 mA	± 0.5%
> 1 bar range Output Zero	4 mA	± 0.5% of span
> 1 bar range Thermal Zero drift		(0 to 100) °C, ±0.01% of span/°C < 0°C & > 100°C, ±0.015% of span/°C
> 1 bar range Thermal Span drift	Typical	±0.015% of reading/°C
> 1 bar range Temperature	Compensated Operating	(-20 to 125) °C (-20 to 125) °C
Supply voltage, normal	(10 to 32) Vdc	SELV
Non-Linearity, Hysteresis and Repeatability	Best fit straight line	± 0.25% of span
> 1 bar range Thermal Zero drift		(0 to 100) °C, ± 0.04% span/°C
> 1 bar range Thermal Span drift	Typical	± 0.015% reading/°C
Long term stability	12 months typical	± 0.1%
Loop resistance	@ 32 Vdc	1.1 K Ohm maximum
Gauge ranges	Minimum (0 to 100) mbar	Maximum (0 to 600) bar
Absolute ranges	Minimum (0 to 700) mbar	Maximum (0 to 600) bar
Gauge ranges G3/4 Flush (only)	Minimum (0 to 100) mbar	Maximum (0 to 100) bar
Absolute ranges G3/4 Flush (only)	Minimum (0 to 700) mbar	Maximum (0 to 100) bar

AMBIENT	
Operating temperature	(-20 to 125) °C
Compensated ranges	(0 to 80) °C, (0 to 100) °C, (-20 to 125) °C See options

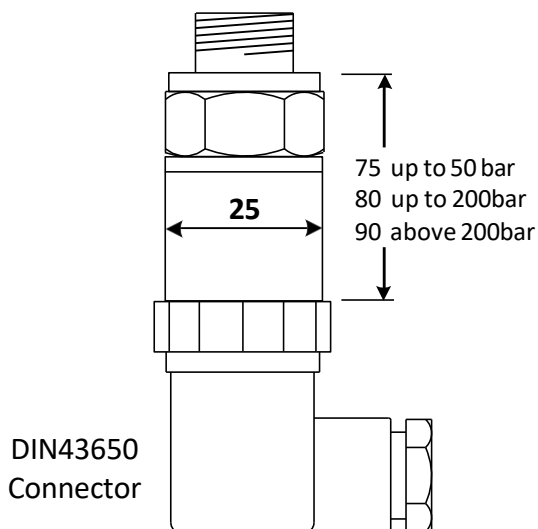
MECHANICAL	
Housing material	Stainless Steel 316L
Wetted materials	Stainless steel, alumina ceramic.
Connector	DIN 43650 IP65
Seals	Viton
Safe over-range pressure	1.5 x rated range
Burst Pressure	3 x range minimum

ATEX VERSION	
II 1G EEX ia IIC T4 Ta = -20°C to +90°C	

PTX15 PRESSURE TRANSMITTER

Mechanical

Dimensions in mm



ORDER CODE PTX15					
PTX15					
O = non ATEX X = ATEX					
A = Absolute G = Gauge					
Pressure Connection:					
G3/4" Flush fitting = 3					
1/4" BSP Male pressure fitting = 5					
1/2" BSP Male pressure fitting = 7					
1/2" NPT Male pressure fitting = 8					
Pressure range (low to high) bar		(xx to xx) bar			
Example: Non ATEX, Gauge, 1/4" BSP Male fitting, (0 to 5) bar range.					
Note: Pressure ranges can be quoted in other units than bar if preferred					
PTX15		O	G	5	(0 to 5) bar
Higher specification options for accuracy and temperature compensation are available. Please contact sales@status.co.uk for further information.					

To maintain full accuracy annual calibration is required. Contact sales@status.co.uk for details
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