

PROCESS PRESSURE TRANSMITTER

PTX24 SERIES

- GAUGE OR ABSOLUTE
- 2 WIRE (4 to 20) mA OUTPUT
- DIGITAL DISPLAY OPTION
- HYGIENIC FITTINGS
- IP65 SEALED
- FLANGED FITTINGS
- 2 YEAR WARRANTY



INTRODUCTION

The PTX24 is an accurate 2 wire pressure transmitter providing a (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. Span and Zero potentiometers are provided for fine adjustment or periodic re-calibration. The PTX24 is available in a wide range of process connections and can have an optional local display.

SPECIFICATIONS @ 20 °C

INPUT	
Type	Gauge or absolute
Pressure Range	Standard DIN pressure ranges
Styles 1, 2 and 7	from (0 to 100) mbar to (0 to 600) bar full scale
Styles 3 and 4	from (0 to 100) mbar to (0 to 30) bar full scale
Over Pressure	The rated pressures can be exceeded to the following limits without degrading performance: 3 bar for ranges up to 2 bar 3 x FS for ranges (2 to 600) bar or burst pressure
Burst Pressure	
Gauge	50 bar for ranges (0 to 25) bar 850 bar for ranges (25 to 600) bar
Absolute	850 bar for ranges 600 bar
Option	1500 bar for ranges > 25 bar
Supply Voltage	(9 to 33) VDC
Load Resistor	$\frac{(V_{supply} - 11)}{20} \times 103 \Omega$ maximum
Process Compatibility	Fluids compatible with a fully welded Assembly of stainless steel > 25 bar, 316 LSS, other materials to order

OUTPUT	
Accuracy	(4 to 20) mA, two wire
Standard	$\pm 0.5 \% FS$ (0 to 600) bar
Optional	$\pm 0.25 \% FS$ (0 to 600) bar $\pm 0.1 \% FS$ (0.1 to 600) bar

Operating Temp. Range (electronics)	
Standard	(0 to 70) °C
Option	(-25 to 85) °C

Electrical Connection
PTX24
SCH4
M20 Cable entry

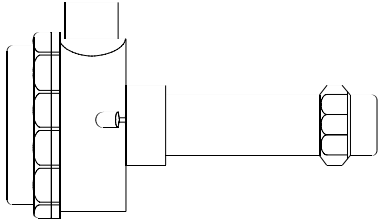
NOTE: Combined Non-linearity, Hysteresis and Repeatability will not deviate from the straight line connecting Zero and FS output by more than the accuracy stated.

APPROVALS	
EMC	
Emissions	EN 61000-6-3
Susceptability	EN 61000-6-2
Optional	EN 61000-4-5 Surge (lightning strikes)

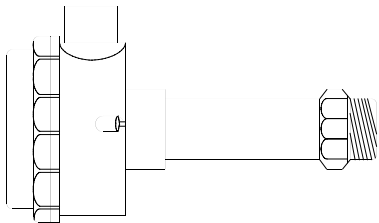
PROCESS PRESSURE TRANSMITTER

MECHANICAL DETAILS

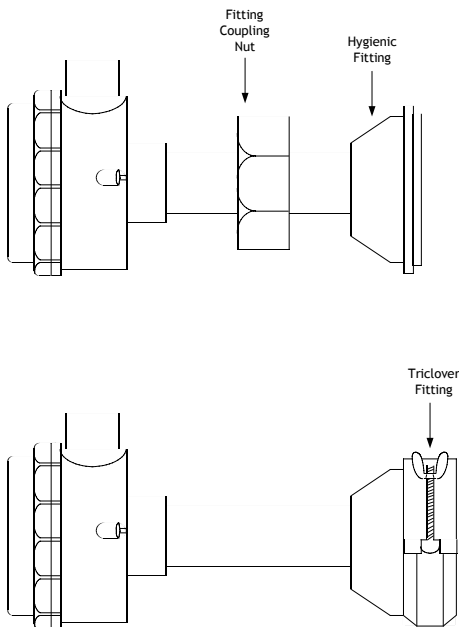
STYLE 1 - ¼" BSPF



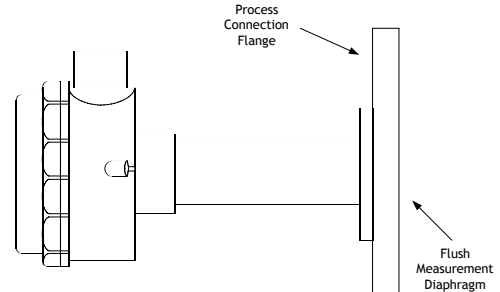
STYLE 2 - ½" BSPM FLUSH DIAPHRAGM



STYLE 3 - HYGIENIC Typical profiles*



STYLE 4 - FLANGED Typical profile*



* Profiles will vary depending upon the type of Hygienic fitting and pressure range.

ORDER CODE

PTX24 / [] / [] / [] / []

Gauge G
Absolute A

¼" BSP FEMALE Pressure Fitting	1
½" BSP MALE Flush Diaphragm	2
Hygienic - State Type	3
Flanged - State size	4
¼" BSP MALE Pressure Fitting	5
½" BSP MALE Frontal Diaphragm	6

Pressure Range
Low/High

OPTIONS

Standard Temperature Range (0 to 70) °C	0
Extended Temperature Range (-25 to 85) °C	1
High Accuracy Burst Pressure	2
High Accuracy 0.25 %	3
Compound Reg./PLUS or offset zero	5
0.1 % Accuracy	6
Range below 100 mbar	7
Cooling extension to 150 °C process	8

Example: PTX24/G/1/0/2/1

For display option order DM400 cap separately