

SUBMERSIBLE LEVEL TRANSMITTER

PTX22 SERIES

- ±0.5 % FS ACCURACY
- IS VERSION
- CAPTIVE SEALED LEAD
- LIGHTING PROTECTION OPTION
- WEIGHTED OPTION
- 2 YEAR WARRANTY



INTRODUCTION

The PTX22 pressure transmitters are high accuracy, robust, 2 wire (4 to 20) mA current output pressure sensing devices used primarily to measure level. They are housed in an all welded stainless steel (316L) assembly containing an oil filled piezoresistive element. Silicon filling and Viton seals are standard with many other options available to order.

The PTX22 is ideal for applications measuring depth and levels in; wells, bore holes, reservoirs, lakes and rivers, waste water and sewerage treatment plants.

Ranges are to Din standard (in ratios of 1, 1.6, 2.5, 4, 6,) e.g. 100, 160, 250, 400, 600 mbar and 1, 1.6 bars etc. up to 25 bar with custom calibrations available in all pressure measurement units. Lightning (surge) protection to EN 61000 and Intrinsic Safety options are all provided.

SPECIFICATION @ 20 °C

INPUT

Type	Gauge
Pressure Range	Standard DIN pressure ranges from 0 mbar to 25 bar Full Scale
Over Pressure	3 bar (0 to 500) mbar 3 x FS (500 to 2) bar (minimum 3 bar) 3 x FS (2 to 25) bar
Burst Pressure	Rated pressures can be exceeded up to 200 bar
Supply Voltage	
PTX22	(9 to 33) VDC
PTX22X	(10 to 30) VDC voltage influence < 0.1 % FS

Electrical Connection	PUR or Teflon cable lengths to be specified at time of ordering
Process Connection	Available without end protection or with a protection cap fitted
Weighted Options	Standard unit weight 170 g with ballast option 400 g. Version with surge (lightning) protection fitted, unweighted 210 g, with ballast option 400 g.

OUTPUT (4 to 20) mA, two wire

Accuracy	
Standard	± 0.5 % FS 0 mbar to 25 bar
Optional	± 0.25 % FS 0 mbar to 25 bar ± 0.1 % FS 0.1 bar to 25 bar

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

Operating Temperature Range

Hazardous Area	
ATEX I/II MI/IG EEx IIC T3...T6	Ex for gas & mines
II 10 T90 °C IP68	Ex for dust

OUTPUT

Accuracy	
Standard	(-5 to 50) °C
Optional	(-5 to 80) °C

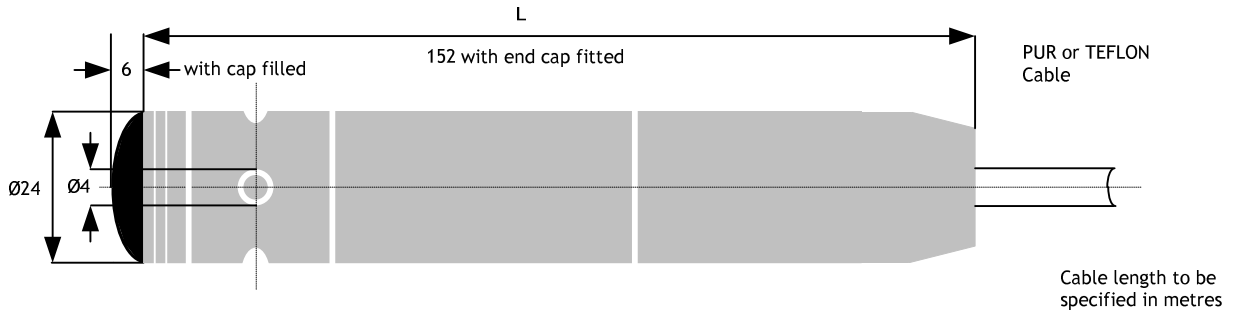
Max. value for supply/output circuit 30 V, 100 mA, 1 W

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.

SUBMERSIBLE LEVEL TRANSMITTER

MECHANICAL DETAILS

(All dimensions in mm)



PTX22	L = 101 mm	Unweighted
	L = 188 mm	Weighted
PTX22 & PTX22X	L = 150 mm	Unweighted / Lightning / IS
	L = 237 mm	Weighted / Lightning / IS

ORDER CODE

PTX22																									
Intrinsic safety	X																								
Gauge	G																								
Open End	0																								
Cap	3																								
Pressure Range:	Low / High plus unit e.g bar, psi, m water																								
OPTIONS	<table border="0" style="width: 100%;"> <tr> <td>Extended Temperature Range (-5 to 80) °C</td> <td>1</td> </tr> <tr> <td>0.25 % Accuracy</td> <td>3</td> </tr> <tr> <td>Negative Range / Offset</td> <td>5</td> </tr> <tr> <td>0.1 % Accuracy</td> <td>6</td> </tr> <tr> <td>Range below 100 mbar (span 50 to 100) mbar</td> <td>7</td> </tr> <tr> <td>Lightening Protection</td> <td>10</td> </tr> <tr> <td>Titanium Version</td> <td>11</td> </tr> <tr> <td>If multiple options required separate with forward slash</td> <td>/</td> </tr> </table>									Extended Temperature Range (-5 to 80) °C	1	0.25 % Accuracy	3	Negative Range / Offset	5	0.1 % Accuracy	6	Range below 100 mbar (span 50 to 100) mbar	7	Lightening Protection	10	Titanium Version	11	If multiple options required separate with forward slash	/
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CABLE (1m standard)	<table border="0" style="width: 100%;"> <tr> <td>PUR - Max Temp 50° C</td> <td>P (length in m)</td> </tr> <tr> <td>Teflon</td> <td>T (length in m)</td> </tr> </table>									PUR - Max Temp 50° C	P (length in m)	Teflon	T (length in m)												
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