

SUBMERSIBLE LEVEL TRANSMITTER

PTX22 SERIES

- **± 0.5 % FS ACCURACY**
- **IS VERSION**
- **CAPTIVE SEALED LEAD**
- **LIGHTNING 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.

SPECIFICATIONS @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

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 to 25 bar

Operating Temperature Range

OUTPUT

Accuracy	Standard (0 to 70) °C Optional (-25 to 85) °C
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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.

Electrical Connection

Process Connection

Weighted Options

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

APPROVALS

EMC

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

HAZARDOUS AREA

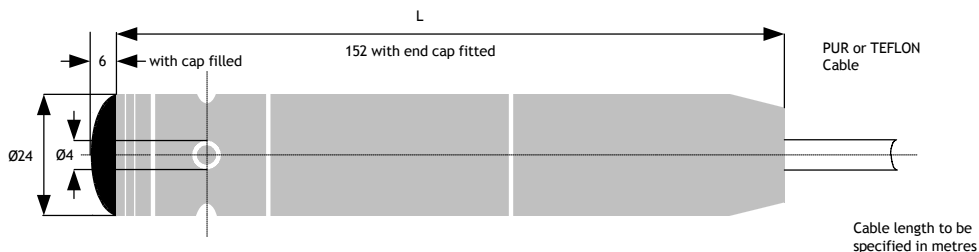
ATEX I/II MI/IG EEx IIC T3...T6	Ex for gas & mines
II 10 T90 °C IP68	Ex for dust

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

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

OPTIONS
 Standard Temperature Range (0 to 70) °C 0
 Extended Temperature Range (-25 to 85) °C 1
 High Accuracy 0.25 % 3
 Compound Reg./PLUS or offset zero 5
 0.1 % Accuracy 6
 Lightning Protection 10

CABLE
 PUR 2 metres std. insert new length P
 TEFLON 2 metres std. insert new length T

OPTION
 Weighted option W

EXAMPLE PTX22/G/3/0.5/2/0/6/W