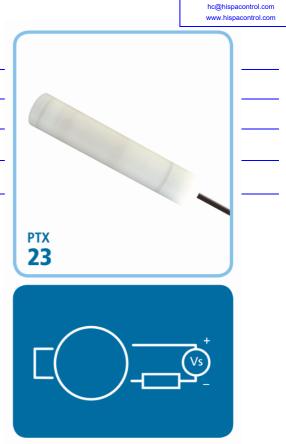
PTX23 SUBMERSIBLE PRESSURE TRANSMITTER

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>	CHEMICAL RESISTANT				
>	HIGH TEMPERATURE STABILITY				
>	HIGH ACCURACY				
>	2 WIRE (4 to 20) mA OUTPUT				
>	LIGHTING PROTECTION OPTION				
>	INTRODUCTION				
The PTX23 pressure transmitter is a high accuracy, robust,					

The PTX23 pressure transmitter is a high accuracy, robust, 2 wire (4 to 20) mA current output pressure sensing device designed to withstand immersion in most aggressive chemicals. It is an assembly containing a piezoresistive element, oil filled and sealed in a PVDF case with a choice of PUR or PTFE cable to any length required.

The PTX23 is ideal for applications measuring depth and levels in aggressive fluids, chemicals and waste water.





TANK LINEARISATION (with SEM1600VI)

When used with products like the Status Instruments SEM1600VI conditioning block (the SEM1600VI can also provide power for the PTX23) 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.

WEIGHTED OPTION

A weighted option is available for use in flowing or turbulent applications to help keep the PTX23 in place.

FOR USE IN AGGRESSIVE MEDIA

The PTX23 is constructed with a stainless-steel body, protected by a PVDF housing. For use in many applications where chemical resistance against submersion in aggressive liquids is required. Please check the suitability of PVDF for use with the intended media.

ALARM RELAYS (with SEM1636)

When the PTX23 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



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SPECIFICATIONS @20°C

Type/Range	Notes	Error/stability		
Within (0 to 1) to (0 to 5) mH20	Over pressure	3 bar		
	Accuracy	≤ ± 2.0% FS ^{*1}		
Thermal shift ±% FS/°C	Zero point	≤ 0.08		
	Span	≤ 0.02		
Long term stability	1 year (Typical/Maximum)	< 0.5% FS/<4 mbar		
Within (0 to 5) to (0 to 20) mH20	Over pressure	3 x FS (≥ 3 bar)		
	Accuracy	≤ ± 1.0 % FS ^{*1}		
Thermal shift ±% FS/°C	Zero point	≤ 0.04		
	Span	≤ 0.02		
Long term stability	1 year (Typical/Maximum)	< 0.2% FS/<4 mbar		
Within (0 to 20) to (0 to 250) mH20	Over pressure	3 x FS		
	Accuracy	≤ ± 0.5 % FS ^{*1}		
Thermal shift ±% FS/°C	Zero point	≤ 0.02		
	Span	≤ 0.02		
Long term stability	1 year (Typical/Maximum)	< 0.1% FS/<0.2% FS		
Burst pressure		>200 bar		
Response time	<1 ms	(10 to 90) % FS		
FS = Full scale input range				
^{*1} Zero based accuracy according to	DIN16086, incl. hysteresis ar	nd repeatability at ambient temperature		

OUTPUT SPECIFICATIONS @2					
Type/options	Range	Accuracy/stability/notes			
(4 to 20) mA two wire		Accuracy included in input values			

(4 to 20) ITA two wire		Accuracy included in input values
Supply voltage, normal	(9 to 33) Vdc	SELV
Supply influence		<0.05 % FS
Load resistance		Load = (<u>V supply –9</u>)
		0.02 A
Load resistance influence		<0.05 % FS
Reverse polarity protection		Yes

AMBIENT

Operating temperature	Standard (-5 to 50) °C [,] extended (-5 to 80) °C ^{*1}			
Process temperature	Standard (-5 to 50) °C [,] extended (-5 to 80) °C ^{*1}			
Storage temperature	(-10 to 80) °C*1			
^{*1} For temperatures > 50 °C Teflon cable must be used				

MECHANICAL

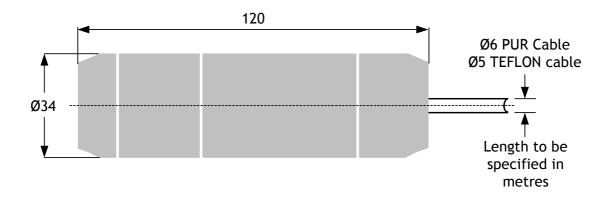
Transducer	Stainless Steel 316L/1.4435, Teflon coated diaphragm
Housing	PVDF
Seals	Viton (options available)
Weight and weighted option	150 g
Cable	PUR, FEP (Teflon)

APPROVALS

Generic immunity	EN 61000-4-2
Electrostatic discharge	EN 61000-4-3
Fast transients (burst)	EN 61000-4-4
Conducted RF	EN 61000-4-6

PTX23 SUBMERSIBLE PRESSURE TRANSMITTER

Mechanical



ORDER CODE PTX23							
	PTX23						
G = Gauge		G					
Open end = 0			0				
Pressure range							
(low to high) mH2	0						
Standard tempera	Standard temperature range (-5 to 50) °C = 0						
Extended temperature range (-5 to 80) °C = 1							
Lightening protection = 10							
Cable PUR = P (x length in m) 1 m supplied as							
Cable PFE (Teflon) for temperatures over 50 °C = T (x length in m) standard							
Example: (0 to 5) mH2O, standard temperature range, 8 m PUR cable							
Note: Pressure ranges can be quoted in other units if preferred							
PTX23 G 0 (0 to 5) mH2O 0 P8							

To maintain full accuracy annual calibration is required. The data in this document is subject to change. Status Instruments assumes no responsibility for errors

