

Intrinsically Safe  Hydrostatic Level Transmitters

HT-PSX2 Series



- High accuracy & reliability
- Ranges 1mH2O to 600m H2Og
- 2 wire 4-20mA signal output
- Fully submersible IP68 rated
- Temperature -40°C + 85°C
- Compact and rugged design

The HT-PSX2 is an ATEX approved Intrinsically Safe hydrostatic level sensor that provides output proportional to pressure of the vertical liquid head directly above the point of measurement . Packaged in a slim IP68 sealed capsule for indefinite/long term submersion into hazardous area storage tanks/vessels.

Oil & Gas
Chemical
Food & Beverage
Plant Engineering
Tanks & Vessels

Intrinsically Safe Hydrostatic Level Transmitters

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TECHNICAL SPECIFICATIONS

Standard pressure ranges & signal outputs

Measuring range *(bar)	1	1.6	2	2.5	4	6	10
Overload pressure	6	6	6	6	10	20	20
Burst pressure	9	9	9	9	15	30	30
Measuring range (bar)	16	20	25	40	60		
Overload pressure	40	40	100	100	200		
Burst pressure	60	60	150	150	300		

* Gauge ranges shown vacuum and absolute ranges & 1bar = 10 mH2O approximately

Electrical	2 wire / 3 wire
Output signal	4-20mA
Supply voltage	9-32Vdc

- Media temperature
Zone 0: -20°C to +60°C / Zone 1:
-40°C to +100°C
- Compensated range
Zone 0: -20°C to + 60°C / Zone 1:
-20°C to + 85°C
- Ambient temperature
Zone 0: -20°C to + 60°C / Zone 1:
-40°C to + 85°C

Performance

- Accuracy: Non-linearity, hysteresis and non-repeatability at room temperature according to IEC 61298-2 (or BSFL/Best Fit Straight Line)
<0.5% FS range (<0.25% BFSL)
<1% for ranges (<0.5% BFSL for ranges less than 0.5 bar)
- Temperature effects: Zero/Span typical thermal coefficients <0.15% FS range/ 10°C
- Total Error Band: 1% FS from room temperature to -20°C or +60°C (Zone 0) / from room temperature to -40°C to +85°C (Zone 1)
- Long term stability: <0.1% FS range/ year
- Response time: <1mS (from 10% to 90% FS range)
- Vibration resistance: 20g (according to IEC 68-2-6 and IEC 68-2-36)
- Shock resistance: 1000g (according to IEC to 68-2-32)
- Intrinsically safe approvals: (ATEX)
Zone 0: II 1G Ex ia IIB T4 (Tamb -40°C to + 60°C)
Zone 1: II 2G Ex ia IIC T4 (Tamb -40°C to + 85°C)

Physical

- Material: body - stainless steel, pressure inlet port - stainless steel
- Pressure inlet: Integral plastic nose cone
Optional: stainless steel nose cone
- Electrical connection: 1m vented cable
- Mass: approximately 240g plus cable (20g per metre approximately)
- Ingress protection: Sealed to IP68

Options

- (1) Improved accuracy:
1 bar to 25 bar ranges <0.25% FS (<0.15% BFSL)
Ranges below 1 bar: <0.5% FS (<0.25%BFSL)
- (2) additional cable (per metre - specific length)
- (3) Stainless Steel nose cone (instead of plastic)

Related products

Hydrotechnik manufactures a wide range of sensors, test and measurement equipment. Contact us for further information or visit www.hydrotechnik.co.uk

Continuing development can necessitate specification changes without notice

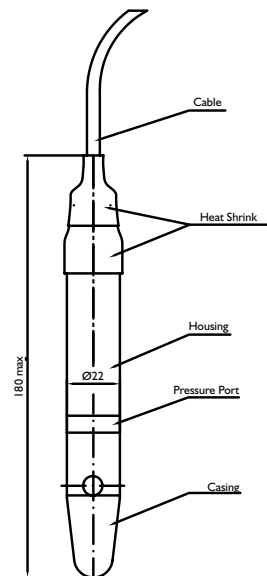
Models



Plastic Nose Cone Steel Nose Cone

Dimensions

HT-PSX2
with plastic casing



HT-PSX2 Series

ORDER CODES

Series	Output Signal	Pressure Range	Unit	Pressure Type	0	HEX	Electr. Connection	Extras
PSX2	10.0	0010000	IWS	(g)	S	-	CPI0**)	-

4...20 mA / 2 wires	10.0
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bar	BAR
kPa	KPA
MPa	MPA
PSI	PSI
kg/cm2	KGC
m WC	MWS
in WC	IWS
others	CCC

Relative Pressure	(g)
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0 ... 1	0000100	0 ... 10	0001000
0 ... 1.6	0000160	0 ... 16	0001600
0 ... 2	0000200	0... 20	0002000
0 ... 2.5	0000250	0... 25	0002500
0 ... 4	0000400	0... 40	0004000
0 ... 6	0000600	0... 60	0006000
		others	BBB

Plastic	P
Stainless Steel	S

Cable Gland Plastic 1,0"	CPI
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(**) e.g. CPI0 - cable length 10 metres

Zone 0	ZO0
Total Error 0.25%	F25
Total Error other	FXX
Others (see below)	GGG