

PT2400



Pressure transmitter

PT-500PSEN14-A-ZVG/US/ IW



Product characteristics		
Number of inputs and outputs	Number of analogue outputs: 1	
Measuring range	[psi]	0...5000
Process connection	threaded connection 1/4" NPT external thread	
Application		
Application	for industrial applications	
Media	liquids and gases	
Medium temperature	[°C]	-40...90
Min. bursting pressure	[psi]	24650
Pressure rating	[psi]	14500
Note on pressure rating	static	
Vacuum resistance	[psi]	-14.5
Type of pressure	relative pressure	
MAWP (for applications according to CRN)	[psi]	12180
Electrical data		
Operating voltage	[V]	8.5...36 DC
Min. insulation resistance	[MΩ]	100; (500 V DC)
Protection class	III	
Reverse polarity protection	yes	
Power-on delay time	[s]	< 0.1
Inputs / outputs		
Number of inputs and outputs	Number of analogue outputs: 1	
Outputs		
Total number of outputs	1	
Output signal	analogue signal	

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Number of analogue outputs	1
Analogue current output [mA]	4...20
Max. load [Ω]	($U_b - 8,5 \text{ V}$) / 21,5 mA; @8,5V= 0 Ω; @12V max. 160 Ω; @24V max. 720 Ω
Short-circuit proof	yes
Overload protection	yes

Measuring/setting range

Measuring range [psi]	0...5000
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Accuracy / deviations

Repeatability [% of the span]	< ± 0,05; (with temperature fluctuations < 10 K)
Characteristics deviation [% of the span]	< ± 0,5; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis)
Linearity deviation [% of the span]	< ± 0,1 (BFSL) / < ± 0,2 (LS)
Hysteresis deviation [% of the span]	< ± 0,2
Long-term stability [% of the span]	< ± 0,1; (per 6 months)
Temperature coefficient zero point and span [% of the span / 10 K]	< 0,1 (-25...90 °C) / < 0,2 (-40...-25 °C)

Response times

Step response time analogue output [ms]	1
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Operating conditions

Ambient temperature [°C]	-40...90
Storage temperature [°C]	-40...100
Protection	IP 67; IP 69K

Tests / approvals

EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-3	
Shock resistance	DIN EN 60068-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
MTTF [years]	784	
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	

Mechanical data

Weight [g]	61.1
Materials	stainless steel (630/1.4542/17-4 PH); stainless steel (316L/1.4404); PEI
Materials (wetted parts)	stainless steel (630/1.4542/17-4 PH)
Min. pressure cycles	60 million; (at 1.2 times nominal pressure)
Tightening torque [Nm]	< 50; (recommended tightening torque; depends on lubrication, seal and pressure rating)
Process connection	threaded connection 1/4" NPT external thread
Restrictor element integrated	no (can be retrofitted)

Remarks

Remarks	BFSL = Best Fit Straight Line LS = limit value setting
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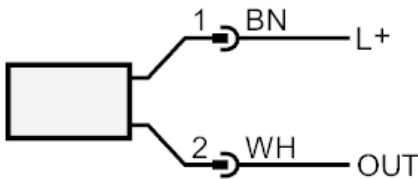
Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A



Connection



OUT	analogue output colours to DIN EN 60947-5-2 Core colours :
BN =	brown
WH =	white