

PT2400



Pressure transmitter

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



Product characteristics		
Number of inputs and outputs		Number of analogue outputs: 1
Measuring range [psi]		
Process connection		
		0...5000
		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
Min. bursting pressure [MPa]		170
Pressure rating [psi]		14500
Pressure rating [MPa]		100
Note on pressure rating		static
Vacuum resistance [psi]		-14.5
Vacuum resistance [MPa]		-0.1
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

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Outputs		
Total number of outputs		1
Output signal		analogue signal
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
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
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
Housing		cylindrical
Dimensions	[mm]	Ø 18.9 / L = 66.9
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)

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Process connection	threaded connection 1/4" NPT external thread
Restrictor element integrated	no (can be retrofitted)

Remarks

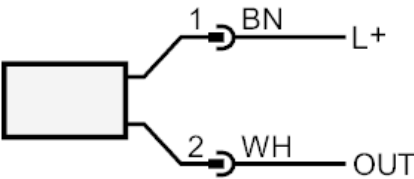
Remarks	BFSL = Best Fit Straight Line
	LS = limit value setting
Pack quantity	1 pcs.

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