

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
Accuracy / deviations	
Repeatability [X21]	$< \pm 0,05$; (with temperature fluctuations $< 10 \text{ K}$)
Characteristics deviation [X21]	$< \pm 0,5$; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis)
Linearity deviation [X21]	$< \pm 0,1$ (BFSL) / $< \pm 0,2$ (LS)
Hysteresis deviation [X21]	$< \pm 0,2$
Long-term stability [X21]	$< \pm 0,1$; (per 6 months)
Temperature coefficient zero point and span [X22]	$< 0,1$ ($-25...90 \text{ °C}$) / $< 0,2$ ($-40...-25 \text{ °C}$)
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
Vibration resistance	DIN EN 60068-2-6
MTTF [ANN]	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	1.4542 (17-4 PH / 630); stainless steel (1.4404 / 316L); PEI
Materials (wetted parts)	1.4542 (17-4 PH / 630)
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
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
BN =	brown
WH =	white