

PT2424



Pressure transmitter

PT-020PSEN14-A-ZVG/US/ IW



Product characteristics		
Number of inputs and outputs		Number of analogue outputs: 1
Measuring range	[psi]	0...200
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]	6525
Pressure rating	[psi]	580
Note on pressure rating		static
Vacuum resistance	[psi]	-14.5
Type of pressure		relative pressure
MAWP (for applications according to CRN)	[psi]	580
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...200
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]	$< 0,1$ ($-25...90 \text{ }^\circ\text{C}$) / $< 0,2$ ($-40...-25 \text{ }^\circ\text{C}$)
Response times	
Step response time analogue output [ms]	1
Operating conditions	
Ambient temperature [$^\circ\text{C}$]	-40...90
Storage temperature [$^\circ\text{C}$]	-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]	57.5
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