

PT2443



Pressure transmitter

PT-050PSEN14-A-ZVG/US/ IW



Product characteristics	
Number of inputs and outputs	Number of analog outputs: 1
Measuring range [psi]	0...500
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]	11600
Pressure rating [psi]	1450
Note on pressure rating	static
Vacuum resistance [psi]	-14.5
Type of pressure	relative pressure
MAWP (for applications according to CRN) [psi]	1450
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 analog outputs: 1
Outputs	
Total number of outputs	1
Output signal	analog signal

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Number of analog outputs	1
Analog 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...500
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Accuracy / deviations

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

Reaction times

Step response time analog 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]	57.5
Material	stainless steel (630/1.4542/17-4 PH); stainless steel (1.4404 / 316L); 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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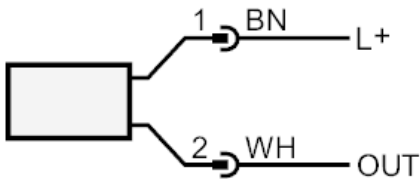
Pack quantity 1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection



OUT analog output
Colors to DIN EN 60947-5-2
Core colors :
BN = brown
WH = white