

PT5401



Pressure transmitter

PT-250-SEG14-A-ZVG/US/ IW



1 Sealing



Product characteristics			
Number of inputs and outputs	Number of analogue outputs: 1		
Measuring range	0...250 bar	0...3625 psi	0...25 MPa
Process connection	threaded connection G 1/4 external thread (DIN EN ISO 1179-2)		
Application			
Application	for industrial applications		
Media	liquids and gases		
Medium temperature [°C]	-40...90		
Min. bursting pressure	1200 bar	17400 psi	120 MPa
Pressure rating	625 bar	9060 psi	62.5 MPa
Note on pressure rating	static		
Vacuum resistance [mbar]	-1000		
Type of pressure	relative pressure		
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		
Number of analogue outputs	1		
Analogue current output [mA]	4...20		
Max. load [Ω]	(U _b – 8,5 V) / 21,5 mA; @8,5V= 0 Ω; @12V max. 160 Ω; @24V max. 720 Ω		

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Short-circuit proof	yes
Overload protection	yes
Measuring/setting range	
Measuring range	0...250 bar 0...3625 psi 0...25 MPa
Accuracy / deviations	
Repeatability [X21]	$< \pm 0,05$; (with temperature fluctuations < 10 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]	$< 0,1$ ($-25...90$ °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 [ANN]	686
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request
Mechanical data	
Weight [g]	60
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]	25...35; (recommended tightening torque; depends on lubrication, seal and pressure rating)
Process connection	threaded connection G 1/4 external thread (DIN EN ISO 1179-2)
Process connection sealing	FKM (DIN EN ISO 1179-2)
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 The following pin connection is available under article number PT53xx Pin 1: L+, Pin 3: OUT colours to DIN EN 60947-5-2
BN	brown
WH	white