

PC5402



Pressure transmitter

PT-100-SEG14-A-ZVG/US/ IW



1 Sealing



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1
Measuring range [bar]	0...100
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 [bar]	1000
Pressure rating [bar]	250
Note on pressure rating	static
Vacuum resistance [mbar]	-1000
Type of pressure	relative pressure

Electrical data

Operating voltage [V]	16...36 DC
Min. insulation resistance [MΩ]	100; (500 V DC)
Protection class	III
Reverse polarity protection	yes

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]	720; (U _b = 24 V; (U _b - 8,5 V) / 21,5 mA)
Short-circuit proof	yes



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Overload protection		yes
Measuring/setting range		
Measuring range	[bar]	0...100
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]	2
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 60068-2-27 500 g (1 ms)
Vibration resistance		DIN EN 60068-2-6 20 g (10...2000 Hz)
MTTF	[ANN]	787
Pressure Equipment Directive		Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request
Mechanical data		
Weight	[g]	52
Materials		1.4542 (17-4 PH / 630); stainless steel (1.4404 / 316L); PA
Materials (wetted parts)		1.4542 (17-4 PH / 630)
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		yes
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