

PC5400



Pressure transmitter

PT-400-SEG14-A-ZVG/US/ IW



1 Sealing



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1
Measuring range [bar]	0...400
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]	1700
Pressure rating [bar]	1000
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...400
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]	$< 0,1$ ($-25...90\text{ °C}$) / $< 0,2$ ($-40...-25\text{ °C}$)
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
Vibration resistance	DIN EN 60068-2-6
MTTF [years]	787
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request
Mechanical data	
Weight [g]	53.5
Materials	stainless steel (630/1.4542/17-4 PH); stainless steel (316L/1.4404); PA
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	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