



Pressure transmitter

PT-010-SEG14-A-ZVG/US/ IW



1 Sealing



Product characteristics	
Number of inputs and outputs	Number of analogue outputs: 1
Measuring range [bar]	-1...10
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]	-25...70
Min. bursting pressure [bar]	300
Pressure rating [bar]	25
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
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]	755; (Ub = 24 V; (Ub - 8,5 V) / 20,5 mA)
Short-circuit proof	yes



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Overload protection	yes
Measuring/setting range	
Measuring range [bar]	-1...10
Accuracy / deviations	
Repeatability [% of the span]	$< \pm 0,05$; (with temperature fluctuations $< 10\text{ K}$)
Characteristics deviation [% of the span]	$< \pm 0,8$; (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]	$< 0,25$ ($-25...70\text{ °C}$)
Response times	
Step response time analogue output [ms]	1
Operating conditions	
Ambient temperature [°C]	-25...70
Storage temperature [°C]	-25...70
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
UL approval	UL Approval no. J027
	File number UL E174189
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request
Mechanical data	
Weight [g]	58.2
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.

PC5194



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Electrical connection

Connector: 1 x M12; coding: A



Connection



OUT	analogue output colours to DIN EN 60947-5-2
BN	Core colours : brown
WH	white