

PT5704



Pressure transmitter

PT-010-SEG14-A-ZVG/DE



1 sealing



Product characteristics

Number of inputs and outputs	Number of analog outputs: 1			
Measuring range	0...10 bar	0...145 psi	0...1000 kPa	0...1 MPa
Process connection	threaded connection G 1/4 external thread (DIN EN ISO 1179-2)			

Application

Application	for mobile applications		
Media	liquids and gases		
Medium temperature [°C]	-40...125		
Min. burst pressure	300 bar	4350 psi	30 MPa
Pressure rating	25 bar	360 psi	2.5 MPa
Note on pressure rating	static		
Vacuum resistance	-1000 mbar	-0.1 MPa	
Type of pressure	relative pressure		

Electrical data

Operating voltage [V]	8...32 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
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Outputs

Total number of outputs	1
Output signal	analog signal
Number of analog outputs	1
Analog current output [mA]	4...20
Max. load [Ω]	($U_b - 8\text{ V}$) / 21,5 mA; @8V = 0 Ω; @12V max. 200 Ω; @24V max. 750 Ω
Short-circuit proof	yes

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Overload protection		yes			
Measuring/setting range					
Measuring range		0...10 bar	0...145 psi	0...1000 kPa	0...1 MPa
Accuracy / deviations					
Repeatability [% of the span]		< ± 0,05; (with temperature fluctuations < 10 K)			
Characteristics deviation [% of the span]		< ± 0,8; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis)			
Linearity deviation [% of the span]		< ± 0,25 (BFSL) / < ± 0,5 (LS)			
Hysteresis deviation [% of the span]		< ± 0,2			
Long-term stability [% of the span]		< ± 0,1; (per 6 months)			
Temperature coefficient zero point [% of the span / 10 K]		< ± 0,1 (0...80 °C); < ± 0,2 (-40...0 °C / 80...125 °C)			
Temperature coefficient span [% of the span / 10 K]		< ± 0,1 (0...80 °C); < ± 0,2 (-40...0 °C / 80...125 °C)			
Reaction times					
Step response time analog output [ms]		2			
Operating conditions					
Ambient temperature [°C]		-40...100			
Storage temperature [°C]		-40...100			
Protection		IP 67; IP 69K			
Tests / approvals					
EMC		compliant with UN ECE R10, rev. 5		(E1 compliant)	
		ISO 11452-2		100 V/m	
		DIN EN 61326-1			
Shock resistance		DIN EN 60068-2-27		500 g (1 ms)	
Vibration resistance		DIN EN 60068-2-6		20 g (10...2000 Hz)	
MTTF [years]		700			
Pressure equipment directive		sound engineering practice; can be used for group 2 fluids; group 1 fluids on request			
Mechanical data					
Weight [g]		61.5			
Housing		tubular			
Dimensions [mm]		Ø 19 / L = 71.5			
Material		stainless steel (630/1.4542/17-4 PH); stainless steel (1.4404 / 316L); PPS			
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		HNBR (DIN EN ISO 1179-2)			
Restrictor element integrated		yes			



Pressure transmitter

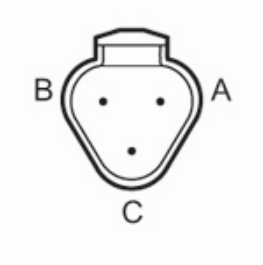
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Remarks

Remarks	BFSL = Best Fit Straight Line LS = limit value setting
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x DEUTSCH connector (DT04-3P)



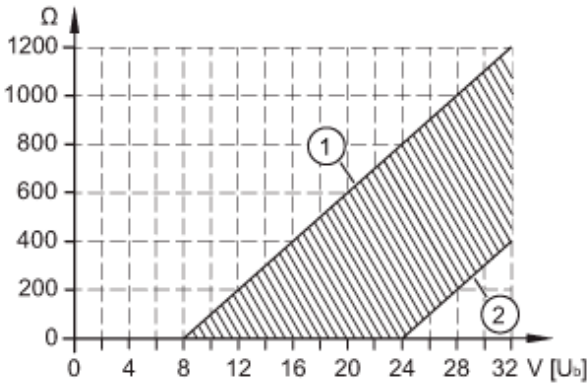
Connection



OUT analog output

Diagrams and graphs

Characteristic load curve current output



- 1: Max. load
- 2: Min. load