

PT703E



Pressure transmitter

PT-025-SEG14-A-ZVG/DE



1 Sealing



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1		
Measuring range	0...25 bar	0...360 psi	0...2.5 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. bursting pressure	600 bar	8700 psi	60 MPa
Pressure rating	65 bar	940 psi	6.5 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 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]	($U_b - 8\text{ V}$) / 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...25 bar	0...360 psi 0...2.5 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); < ± 0,3 (-40...0 °C); < ± 0,2 (80...125 °C)	
Response times			
Step response time analogue output [ms]		2	
Operating conditions			
Ambient temperature [°C]		-40...100	
Storage temperature [°C]		-40...100	
Protection		IP 67; IP 69K	
Tests / approvals			
EMC		noise immunity according to UN ECE R10, rev. 6	
		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]		711	
Pressure Equipment Directive		Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	
Mechanical data			
Weight [g]		62	
Housing		cylindrical	
Dimensions [mm]		Ø 19 / L = 71.5	
Materials		stainless steel (630/1.4542/17-4 PH); stainless steel (316L/1.4404); 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	

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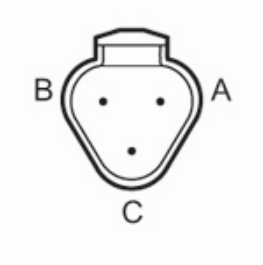
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Remarks

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

Electrical connection

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



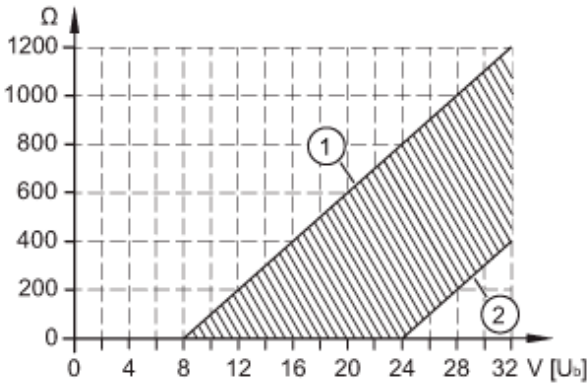
Connection



OUT analogue output

Diagrams and graphs

characteristic load curve of current output



- 1: Max. load
- 2: min. load