

PT5504



Pressure transmitter

PT-010-SEG14-A-ZVG/US



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 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]	711			
UL approval	UL approval number	J070		
	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]	58.5			
Housing	tubular			
Dimensions [mm]	Ø 19 / L = 66			
Material	stainless steel (630/1.4542/17-4 PH); stainless steel (1.4404 / 316L); 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	HNBR (DIN EN ISO 1179-2)			

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Restrictor element integrated yes

Remarks

Remarks BFSL = Best Fit Straight Line

LS = limit value setting

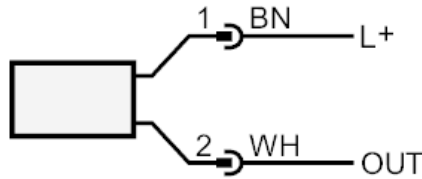
Pack quantity 1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



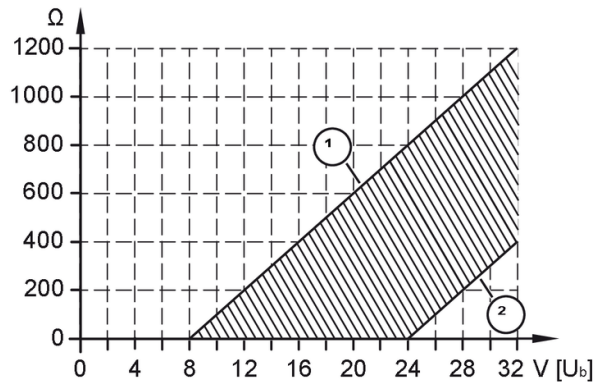
Connection



OUT analog output
Colors to DIN EN 60947-5-2
Core colors :
BN = brown
WH = white

Diagrams and graphs

Characteristic load curve current output



1: Max. load
2: Min. load