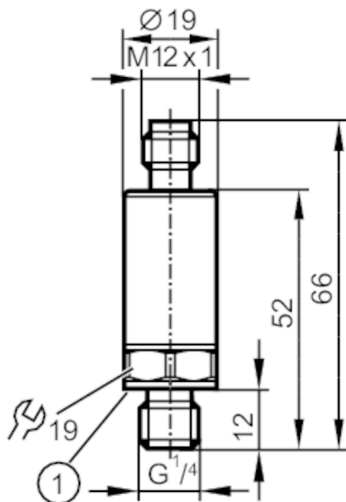


PT502E



Pressure transmitter

PT-100-SEG14-A-ZVG/US



1 Sealing



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1		
Measuring range	0...100 bar	0...1450 psi	0...10 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	1000 bar	14500 psi	100 MPa
Pressure rating	250 bar	3625 psi	25 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 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...100 bar	0...1450 psi	0...10 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)		
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]		58.5		
Housing		cylindrical		
Dimensions [mm]		Ø 19 / L = 66		
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		HNBR (DIN EN ISO 1179-2)		
Restrictor element integrated		yes		



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Remarks

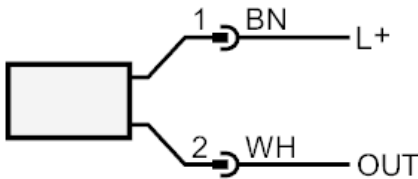
Remarks	BFSL = Best Fit Straight Line LS = limit value setting
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



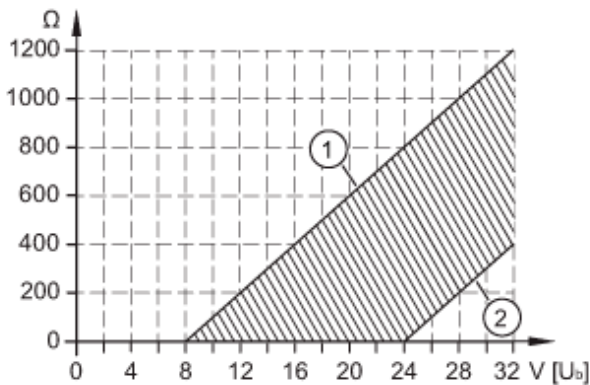
Connection



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

Diagrams and graphs

characteristic load curve of current output



1: Max. load
2: min. load