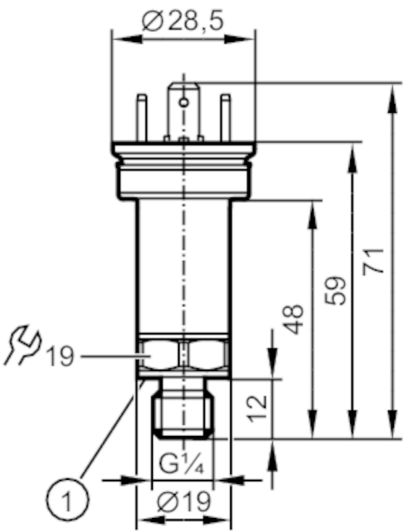


PT5000



Pressure transmitter

PT-400-SEG14-A-ZVG/VE



1 Sealing



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1		
Measuring range	0...400 bar	0...5800 psi	0...40 MPa
Process connection	threaded connection G 1/4 external thread (DIN EN ISO 1179-2)		

Application

Measuring element	metallic thin film cell		
Application	for mobile applications; for industrial applications		
Media	liquids and gases		
Medium temperature [°C]	-40...125		
Min. bursting pressure	1700 bar	24655 psi	170 MPa
Pressure rating	1000 bar	14500 psi	100 MPa
Note on pressure rating	static		
Vacuum resistance	-1000 mbar	-0.1 MPa	
Type of pressure	relative pressure		

Electrical data

Operating voltage [V]	8...36 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
------------------------------	-------------------------------

Outputs

Total number of outputs	1
Output signal	analogue signal
Number of analogue outputs	1



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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		
Overload protection		yes		
Measuring/setting range				
Measuring range		0...400 bar	0...5800 psi	0...40 MPa
Accuracy / deviations				
Repeatability		[% of the span]		< ± 0,05; (with temperature fluctuations < 10 K)
Characteristics deviation		[% of the span]		< ± 0,5; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis)
Linearity deviation		[% of the span]		< ± 0,1 (BFSL) / < ± 0,2 (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		
Tests / approvals				
EMC		Compliant with ECE R 10, rev. 5		(E1 compliant)
		DIN EN ISO 13766-1 : 2018		earthworks and construction machines
		DIN EN ISO 14982 : 2009		agricultural and forestry machines
		ISO 11452-2		100 V/m
		ISO 7637-2 : 2011 pulse 1		Test severity III. function state C
		ISO 7637-2 : 2011 pulse 2b		test severity IV. function state C
		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]		715
UL approval		UL Approval no.		J043
		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]		67.5
Housing		cylindrical		
Dimensions		[mm]		Ø 19 / L = 71

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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); stainless steel (303/1.4305)
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	yes

Remarks

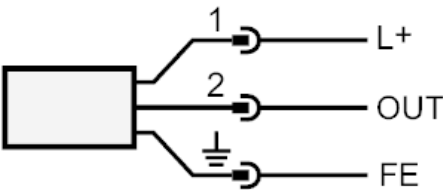
Remarks	BFSL = Best Fit Straight Line
	LS = limit value setting
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x valve plug type A DIN (EN175301-803-A)



Connection



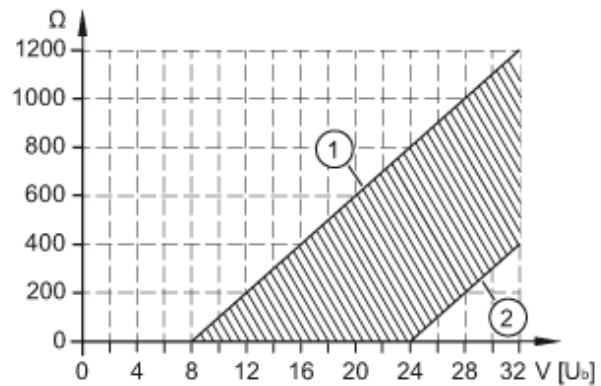
OUT analogue output
FE functional earth

Pressure transmitter

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Diagrams and graphs

characteristic load curve of current output



1: Max. load

2: min. load