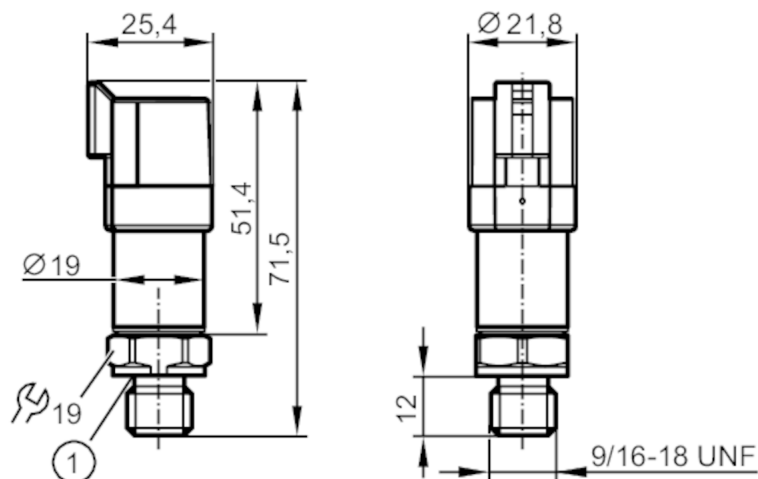


PU1700

Pressure transmitter

PU-500PSEU96-V-DVG/DE



Product characteristics

Number of inputs and outputs	Number of analog outputs: 1	
Measuring range	0...5000 psi	0...34470 kPa
Process connection	threaded connection 9/16" - 18 UNF SAE6 O-Ring BOSS external thread	

Application

Application	for mobile applications	
Media	liquids and gases	
Medium temperature [°C]	-40...125	
Min. burst pressure	24650 psi	170 MPa
Pressure rating	14500 psi	100 MPa
Note on pressure rating	static	
Vacuum resistance	-14.5 psi	-0.1 MPa
Type of pressure	relative pressure	

Electrical data

Operating voltage [V]	8...32 DC	
Current consumption [mA]	< 12	
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

PU1700



Pressure transmitter

PU-500PSEU96-V-DVG/DE

Analog voltage output	[V]	0.5...4.5	
Min. load resistance	[Ω]	2000	
Short-circuit proof		yes	
Overload protection		yes	
Measuring/setting range			
Measuring range		0...5000 psi	0...34470 kPa
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	
		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]	652	
Pressure equipment directive		sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	
Mechanical data			
Weight	[g]	62	
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 9/16" - 18 UNF SAE6 O-Ring BOSS external thread	

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Pressure transmitter

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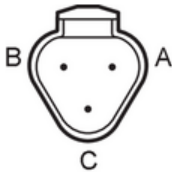
Process connection sealing	HNBR (DIN EN ISO 1179-2)
Restrictor element integrated	yes

Remarks

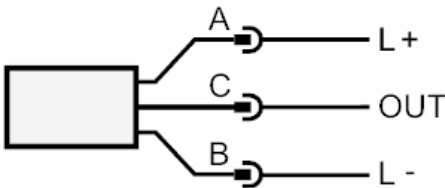
Remarks	BFSL = Best Fit Straight Line LS = limit value setting
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x DEUTSCH connector (DT04-3P); Contacts: 3; Maximum cable length: 30 m



Connection



OUT analog output