

PU503E



Pressure transmitter

PU-025-SEG14-C-DVG/US



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 [mbar]	-1000		
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 analogue outputs: 1
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Outputs

Total number of outputs	1
Output signal	analogue signal
Number of analogue outputs	1
Analogue voltage output [V]	0.5...4.5

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Min. load resistance	[Ω]	2000
Short-circuit proof		yes
Overload protection		yes
Measuring/setting range		
Measuring range	0...25 bar	0...360 psi
		0...2.5 MPa
Accuracy / deviations		
Repeatability	[X21]	< ± 0,05; (with temperature fluctuations < 10 K)
Characteristics deviation	[X21]	< ± 0,8; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis)
Linearity deviation	[X21]	< ± 0,25 (BFSL) / < ± 0,5 (LS)
Hysteresis deviation	[X21]	< ± 0,2
Long-term stability	[X21]	< ± 0,1; (per 6 months)
Temperature coefficient zero point	[X22]	< ± 0,1 (0...80 °C); < ± 0,2 (-40...0 °C / 80...125 °C)
Temperature coefficient span	[X22]	< ± 0,1 (0...80 °C); < ± 0,3 (-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		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	[ANN]	658
Pressure Equipment Directive		Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request
Mechanical data		
Weight	[g]	58.5
Materials		1.4542 (17-4 PH / 630); stainless steel (1.4404 / 316L); PEI
Materials (wetted parts)		1.4542 (17-4 PH / 630)
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
Remarks		
Remarks		BFSL = Best Fit Straight Line
		LS = limit value setting
Pack quantity		1 pcs.

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Electrical connection

Connector: 1 x M12; coding: A; Maximum cable length: 30 m



Connection



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