



Pressure transmitter

PT-010-RBG14-A-ZVG/US/ /W

phase-out article

Alternative articles: PT5404

When selecting an alternative article and accessories please note that technical data may differ!



- 1 Sealing
Tightening torque 25 Nm



Product characteristics

Number of inputs and outputs	Number of analogue 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			

Application

Application	for industrial applications		
Media	liquids and gases		
Medium temperature [°C]	-25...90		
Min. bursting pressure	300 bar	4350 psi	30 MPa
Pressure rating	25 bar	362 psi	2.5 MPa
Type of pressure	relative pressure		

Electrical data

Operating voltage [V]	8.5...36 DC
Min. insulation resistance [MΩ]	100; (500 V DC)
Protection class	III
Reverse polarity protection	yes

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



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Number of analogue outputs	1			
Analogue current output [mA]	4...20			
Max. load [Ω]	775; (Ub = 24 V; (Ub - 8,5 V) / 20 mA)			
Measuring/setting range				
Measuring range	0...10 bar	0...145 psi	0...1000 kPa	0...1 MPa
Accuracy / deviations				
Repeatability [% of the span]	< ± 0,1; (with temperature fluctuations < 10 K)			
Characteristics deviation [% of the span]	< ± 1,0; (incl. drift when overtightened, zero point and span error)			
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; (-25...90 °C)			
Temperature coefficient span [% of the span / 10 K]	< ± 0,1; (-25...90 °C)			
Response times				
Step response time analogue output [ms]	3			
Operating conditions				
Ambient temperature [°C]	-25...90			
Storage temperature [°C]	-40...100			
Protection	IP 67; IP 69K			
Tests / approvals				
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD		
	EN 61000-4-3 HF radiated	10 V/m		
	EN 61000-4-4 Burst	4 kV coupling clamp		
	EN 61000-4-5 Surge	1 kV signal for DC units		
	EN 61000-4-6 HF conducted	10 V		
Shock resistance	DIN IEC 68-2-27	50 g (11 ms)		
Vibration resistance	DIN IEC 68-2-6	20 g (10...2000 Hz)		
MTTF [years]	1579			
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request			
Mechanical data				
Weight [g]	85			
Materials	stainless steel (316L/1.4404); PA			
Materials (wetted parts)	stainless steel (316L/1.4404); Sealing: FKM			
Min. pressure cycles	50 million			
Process connection	threaded connection G 1/4 external thread			
Restrictor element integrated	no (can be retrofitted)			



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Remarks

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BFSL = Best Fit Straight Line

LS = limit value setting

Pack quantity

1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection

