



Pressure transmitter

PT-100-SBG14-B-DVG/US/ IW

phase-out article

Alternative articles: PU5402

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...100 bar	0...1450 psi	0...10 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	1000 bar	14500 psi	100 MPa
Pressure rating	200 bar	2900 psi	20 MPa
Type of pressure	relative pressure		

Electrical data

Operating voltage [V]	16...36 DC		
Current consumption [mA]	< 6		
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
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Output signal	analogue signal		
Number of analogue outputs	1		
Analogue voltage output [V]	0...10		
Min. load resistance [Ω]	2000		
Measuring/setting range			
Measuring range	0...100 bar	0...1450 psi	0...10 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]	1116		
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request		
Mechanical data			
Weight [g]	81.9		
Housing	cylindrical		
Dimensions [mm]	Ø 22 / L = 65.1		
Materials	stainless steel (316L/1.4404); PA		
Materials (wetted parts)	stainless steel (316L/1.4404); FKM		
Min. pressure cycles	50 million		

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Process connection	threaded connection G 1/4 external thread
Restrictor element integrated	no (can be retrofitted)

Remarks

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

Electrical connection

Connector: 1 x M12; coding: A



Connection

