

PA3509



Pressure transmitter with ceramic measuring cell

PA-1-1-RBG14-A-ZVG/US/ IV



1 Sealing



Product characteristics			
Number of inputs and outputs	Number of analogue outputs: 1		
Measuring range	-1...1 bar	-1000...1000 mbar	-14.5...14.5 psi -100...100 kPa
Process connection	threaded connection G 1/4 external thread internal thread:M5		
Application			
Special feature	Gold-plated contacts		
Application	for industrial applications		
Media	liquids and gases		
Medium temperature [°C]	-25...90; (on request: -40...90 °C)		
Min. bursting pressure	30 bar	435 psi	3 MPa
Pressure rating	10 bar	145 psi	1 MPa
Type of pressure	relative pressure; vacuum		
Electrical data			
Operating voltage [V]	9.6...32 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		
Outputs			
Total number of outputs	1		
Output signal	analogue signal		
Number of analogue outputs	1		
Analogue current output [mA]	4...20		



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Max. load	[Ω]	720; (Ub = 24 V; (Ub - 9,6 V) / 20 mA)			
Overload protection		yes			
Measuring/setting range					
Measuring range		-1...1 bar	-1000...1000 mbar	-14.5...14.5 psi	-100...100 kPa
Accuracy / deviations					
Repeatability	[% of the span]	< 0,1; (with temperature fluctuations < 10 K)			
Characteristics deviation	[% of the span]	< ± 0,25 (BFSL) / < ± 0,5 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting)			
Long-term stability	[% of the span]	< ± 0,05; (per 6 months)			
Temperature coefficient zero point	[% of the span / 10 K]	< ± 0,2; (0...80 °C)			
Temperature coefficient span	[% of the span / 10 K]	< ± 0,2; (0...80 °C)			
Response times					
Step response time analogue output	[ms]	3			
Operating conditions					
Ambient temperature	[°C]	-25...80			
Storage temperature	[°C]	-40...100			
Protection		IP 65			
Tests / approvals					
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD			
	EN 61000-4-3 HF radiated	30 V/m			
	EN 61000-4-4 Burst	2 kV			
	EN 61000-4-6 HF conducted radiation of interference	10 V			
		according to the automotive directive 2004/104/EC			
	CISPR 25 immunity			according to the automotive directive 2004/104/EC	
	ISO 11452-2 HF radiated	100 V/m			
	ISO 7637-2 pulse	severity level 4			
Shock resistance	DIN EN 60068-2-27	50 g (11 ms)			
	DIN EN 61373	category 3			
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)			
	DIN EN 61373	category 2			
MTTF	[years]	506			
Pressure Equipment Directive		Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request			
Railway applications		DIN EN 50155 / IEC 60571		Klasse T3, C1, S1	
Mechanical data					
Weight	[g]	216.5			
Housing		cylindrical			
Dimensions	[mm]	Ø 30 / L = 79.5			
Materials		stainless steel (316L/1.4404); FKM; PA; EPDM/X			
Materials (wetted parts)		stainless steel (303/1.4305); ceramics; Sealing: FKM DIN 3869-14			

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Min. pressure cycles	100 million
Process connection	threaded connection G 1/4 external thread internal thread:M5
Restrictor element integrated	no (can be retrofitted)

Remarks

Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection

