



Pressure transmitter with ceramic measuring cell

PA-001-RBN14-A-ZVG/US/ IV



Product characteristics				
Number of inputs and outputs	Number of analogue outputs: 1			
Measuring range	0...1 bar	0...1000 mbar	0...14.5 psi	0...100 kPa
Process connection	threaded connection 1/4" NPT internal thread			
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			
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		



Pressure transmitter with ceramic measuring cell

PA-001-RBN14-A-ZVG/US/ IV

Max. load	[Q]	720; (Ub = 24 V; (Ub - 9,6 V) / 20 mA)			
Overload protection		yes			
Measuring/setting range					
Measuring range		0...1 bar	0...1000 mbar	0...14.5 psi	0...100 kPa
Accuracy / deviations					
Repeatability	[X21]	< 0,1; (with temperature fluctuations < 10 K)			
Characteristics deviation	[X21]	< ± 0,25 (BFSL) / < ± 0,5 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting)			
Long-term stability	[X21]	< ± 0,05; (per 6 months)			
Temperature coefficient zero point	[X22]	0,1; (0...80 °C)			
Temperature coefficient span	[X22]	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		10 V		
	radiation of interference		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		
Shock resistance	ISO 7637-2 pulse		severity level 4		
	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	[ANN]	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]	225			
Materials		stainless steel (1.4404 / 316L); FKM; PA; EPDM/X			
Materials (wetted parts)		stainless steel (1.4305 / 303); ceramics; FKM			
Min. pressure cycles		100 million			
Process connection		threaded connection 1/4" NPT internal thread			
Restrictor element integrated		no (can be retrofitted)			
Remarks					
Pack quantity		1 pcs.			

PA3227



Pressure transmitter with ceramic measuring cell

PA-001-RBN14-A-ZVG/US/ IV

Electrical connection

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



Connection

