

PA9027



Pressure transmitter with ceramic measuring cell

PA-001-RBR14-B-DVG/US/V



Application

Media		liquids and gases
Medium temperature	[°C]	-25...90; (on request: -40...90 °C)
Pressure rating	[bar]	10
Min. bursting pressure	[bar]	30
Type of pressure		relative pressure

Electrical data

Operating voltage	[V]	16...32 DC
Current consumption	[mA]	< 18
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 voltage output	[V]	0...10
Min. load resistance	[Ω]	2000
Overload protection		yes

Measuring/setting range

Measuring range	[bar]	0...1
-----------------	-------	-------



Pressure transmitter with ceramic measuring cell

PA-001-RBR14-B-DVG/US/V

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]	0,1; (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	10 V
	radiation of interference	according to the automotive directive 2004/104/EC
	CISPR 25	
	noise immunity	according to the automotive directive 2004/104/EC
	ISO 11452-2 HF radiated	100 V/m
	ISO 7637-2 pulse	severity level 4
	DIN EN 60068-2-27	50 g (11 ms)
Shock resistance	DIN EN 61373	category 3
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
	DIN EN 61373	category 2
MTTF	[years]	478
Railway applications	DIN EN 50155 / IEC 60571	Klasse T3, C1, S1
Mechanical data		
Weight	[g]	222.2
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 G 1/4 internal thread
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Connector: 1 x M12; Contacts: gold-plated		

PA9027



Pressure transmitter with ceramic measuring cell

PA-001-RBR14-B-DVG/US/V



Connection

