



Pressure transmitter with ceramic measuring cell

PA-0-1-RBR14-B-DVG/US/ IV



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

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]	-1...0
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Accuracy / deviations

Repeatability	[% of the span]	< 0,1; (with temperature fluctuations < 10 K)
Characteristics deviation		< ± 0,25 (BFSL) / < ± 0,5 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting)

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	[% of the span]	
Long-term stability		< ± 0,05; (per 6 months)
	[% of the span]	
Temperature coefficient zero point		0,1; (0...80 °C)
	[% of the span / 10 K]	
Temperature coefficient span		0,2; (0...80 °C)
	[% of the span / 10 K]	

Response times

Step response time analogue output	[ms]	3
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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]	223.4
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.
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Electrical connection

Connector: 1 x M12; Contacts: gold-plated

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Connection

