

PT2494

Pressure transmitter

PT-020PSEN14-A-ZVG/US/ IW



Product characteristics

Number of inputs and outputs	Number of analog outputs: 1
Measuring range [psi]	-14.5...200
Process connection	threaded connection 1/4" NPT external thread

Application

Application	for industrial applications
Media	liquids and gases
Medium temperature [°C]	-40...90
Min. bursting pressure [psi]	6525
Pressure rating [psi]	580
Note on pressure rating	static
Vacuum resistance [psi]	-14.5
Type of pressure	relative pressure
MAWP (for applications according to CRN) [psi]	580

Electrical data

Operating voltage [V]	8.5...36 DC
Min. insulation resistance [MΩ]	100; (500 V DC)
Protection class	III
Reverse polarity protection	yes
Power-on delay time [s]	< 0.1

Inputs / outputs

Number of inputs and outputs	Number of analog outputs: 1
------------------------------	-----------------------------

Outputs

Total number of outputs	1
Output signal	analog signal



Pressure transmitter

PT-020PSEN14-A-ZVG/US/ IW

Number of analog outputs	1
Analog current output [mA]	4...20
Max. load [Ω]	($U_b - 8,5 \text{ V}$) / 21,5 mA; @8,5V= 0 Ω; @12V max. 160 Ω; @24V max. 720 Ω
Short-circuit proof	yes
Overload protection	yes

Measuring/setting range

Measuring range [psi]	-14.5...200
-----------------------	-------------

Accuracy / deviations

Repeatability [% of the span]	< ± 0,05; (with temperature fluctuations < 10 K)
Characteristics deviation [% of the span]	< ± 0,5; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis)
Linearity deviation [% of the span]	< ± 0,1 (BFSL) / < ± 0,2 (LS)
Hysteresis deviation [% of the span]	< ± 0,2
Long-term stability [% of the span]	< ± 0,1; (per 6 months)
Temperature coefficient zero point and span [% of the span / 10 K]	< 0,1 (-25...90 °C) / < 0,2 (-40...-25 °C)

Reaction times

Step response time analog output [ms]	1
---------------------------------------	---

Operating conditions

Ambient temperature [°C]	-40...90
Storage temperature [°C]	-40...100
Protection	IP 67; IP 69K

Tests / approvals

EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-3	
Shock resistance	DIN EN 60068-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
MTTF [years]	787	
UL approval	UL approval number	J027
Pressure equipment directive	sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	

Mechanical data

Weight [g]	58
Housing	tubular
Dimensions [mm]	Ø 18.9 / L = 66.9
Material	stainless steel (630/1.4542/17-4 PH); stainless steel (1.4404 / 316L); PEI
Materials (wetted parts)	stainless steel (630/1.4542/17-4 PH)
Min. pressure cycles	60 million; (at 1.2 times nominal pressure)
Tightening torque [Nm]	< 50; (recommended tightening torque; Depends on lubrication, seal and pressure rating)
Process connection	threaded connection 1/4" NPT external thread
Restrictor element integrated	no (can be retrofitted)

PT2494



Pressure transmitter

PT-020PSEN14-A-ZVG/US/ IW

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

Electrical connection

Connector: 1 x M12; coding: A



Connection



OUT analog output
Colors to DIN EN 60947-5-2
Core colors :
BN = brown
WH = white