

# PT5443



## Pressure transmitter

PT-040-SEG14-A-ZVG/US/ IW



1 sealing



### Product characteristics

Number of inputs and outputs	Number of analog outputs: 1		
Measuring range	0...40 bar	0...580 psi	0...4 MPa
Process connection	threaded connection G 1/4 external thread (DIN EN ISO 1179-2)		

### Application

Application	for industrial applications		
Media	liquids and gases		
Medium temperature [°C]	-40...90		
Min. burst pressure	800 bar	11600 psi	80 MPa
Pressure rating	100 bar	1450 psi	10 MPa
Note on pressure rating	static		
Vacuum resistance	-1000 mbar	-0.1 MPa	
Type of pressure	relative pressure		

### 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		
Number of analog outputs	1		
Analog current output [mA]	4...20		
Max. load [Ω]	(U <sub>b</sub> – 8,5 V) / 21,5 mA; @8,5V= 0 Ω; @12V max. 160 Ω; @24V max. 720 Ω		
Short-circuit proof	yes		

# PT5443



## Pressure transmitter

PT-040-SEG14-A-ZVG/US/ IW

Overload protection	yes
---------------------	-----

### Measuring/setting range

Measuring range	0...40 bar	0...580 psi	0...4 MPa
-----------------	------------	-------------	-----------

### 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]		784
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]	59
Housing	tubular
Dimensions [mm]	∅ 19 / L = 66
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]	25...35; (recommended tightening torque; Depends on lubrication, seal and pressure rating)
Process connection	threaded connection G 1/4 external thread (DIN EN ISO 1179-2)
Process connection sealing	FKM (DIN EN ISO 1179-2)
Restrictor element integrated	no (can be retrofitted)

# PT5443



## Pressure transmitter

PT-040-SEG14-A-ZVG/US/ IW

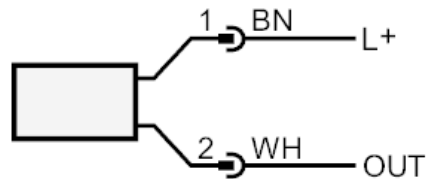
Remarks	
Remarks	BFSL = Best Fit Straight Line LS = limit value setting
Pack quantity	1 pcs.

### Electrical connection

Connector: 1 x M12; coding: A



### Connection



OUT            analog output  
The following pin connection is available at article number PT53xx Pin 1: L+, Pin 3: OUT  
Colors to DIN EN 60947-5-2  
Core colors :

BN            brown  
WH            white