

# PT5412



## Pressure transmitter

PT-160-SEG14-A-ZVG/US/ IW



1 Sealing



### Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1		
Measuring range	0...160 bar	0...2320 psi	0...16 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. bursting pressure	1100 bar	15950 psi	110 MPa
Pressure rating	400 bar	5800 psi	40 MPa
Note on pressure rating	static		
Vacuum resistance [mbar]	-1000		
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 analogue outputs: 1		
------------------------------	-------------------------------	--	--

### Outputs

Total number of outputs	1		
Output signal	analogue signal		
Number of analogue outputs	1		
Analogue 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		

# PT5412



## Pressure transmitter

PT-160-SEG14-A-ZVG/US/ IW

Short-circuit proof	yes
Overload protection	yes

### Measuring/setting range

Measuring range	0...160 bar	0...2320 psi	0...16 MPa
-----------------	-------------	--------------	------------

### Accuracy / deviations

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

### Response times

Step response time analogue 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 no.	J026
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	

### Mechanical data

Weight [g]	60
Materials	1.4542 (17-4 PH / 630); stainless steel (1.4404 / 316L); PEI
Materials (wetted parts)	1.4542 (17-4 PH / 630)
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)

### Remarks

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

# PT5412



## Pressure transmitter

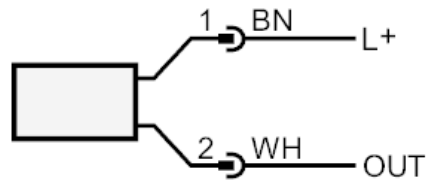
PT-160-SEG14-A-ZVG/US/ IW

### Electrical connection

Connector: 1 x M12; coding: A



### Connection



OUT	analogue output The following pin connection is available under article number PT53xx Pin 1: L+, Pin 3: OUT colours to DIN EN 60947-5-2
BN	brown
WH	white