

PTU412



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...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	110 MPa
Pressure rating	400 bar	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]	$(U_b - 8,5 \text{ V}) / 21,5 \text{ mA}$; @8,5V = 0 Ω; @12V max. 160 Ω; @24V max. 720 Ω



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...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
	File number UL E174189
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request
Mechanical data	
Weight [g]	57.5
Materials	stainless steel (630/1.4542/17-4 PH); stainless steel (316L/1.4404); 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)
Remarks	
Remarks	BFSL = Best Fit Straight Line
	LS = limit value setting

PTU412



Pressure transmitter

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

Pack quantity

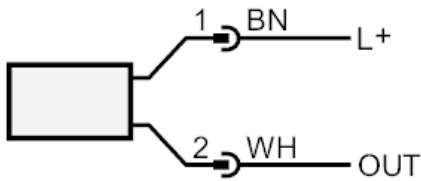
1 pcs.

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 Core colours :
BN	brown
WH	white