

# PT5300



## Pressure transmitter

PT-400-SEG14-A-ZVG/US/ IW



1 Sealing



Application	
Application	for industrial applications
Media	liquids and gases
Medium temperature [°C]	-40...90
Pressure rating [bar]	1000
Note on pressure rating	static
Min. bursting pressure [bar]	1700
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
Outputs	
Total number of outputs	1
Output signal	analogue signal
Number of analogue outputs	1
Analogue current output [mA]	4...20
Max. load [Ω]	720; (U <sub>b</sub> = 24 V; (U <sub>b</sub> - 8,5 V) / 21,5 mA)
Short-circuit proof	yes
Overload protection	yes
Measuring/setting range	
Measuring range [bar]	0...400
Accuracy / deviations	
Repeatability [% of the span]	< ± 0,05; (with temperature fluctuations < 10 K)
Characteristics deviation	< ± 0,5; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis)

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	[% of the span]	
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
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### 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
Pressure Equipment Directive		Sound Engineering Practice; can be used for group 2 fluids; group 1 fluids on request	

### Mechanical data

Weight	[g]	59.2
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 (to DIN 3869)
Restrictor element integrated		no

### Remarks

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

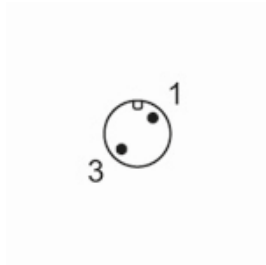
### Electrical connection

Connector: 1 x M12

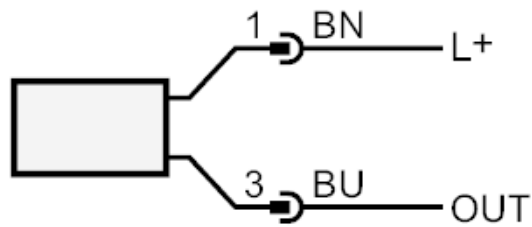
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### Connection



OUT                    analogue output  
                         colours to DIN EN 60947-5-2  
                         Core colours :

BN =                    brown  
BU =                    blue