

# PT-300 Series

Amplified Output Pressure Transmitter

## Datasheet



*\*Overall length may vary depending on process connection.*

The PT-300 offers high accuracy and reliability over a wide range of pressures. The small size, integrated electronics, wide operating temperature ranges, and durability make the PT-300 the perfect instrument for static and dynamic pressure measurements with an amplified output signal.

### Features

- Available ranges from 0 - 7,500 psi
- Standard Outputs: 4-20 mA, 0-5 VDC, 0-10 VDC
- Accurate in harsh conditions

# PT-300 SPECIFICATIONS

## Performance

Pressure Ranges	0 to 10K PSIS (Per Part Number)
Analog Output	4-20mA, 0-5VDC, 0-10VDC
Over Pressure	1.5X Full Scale or limit of fitting, whichever is less
Burst Pressure	3.0X Full Scale or limit of fitting, whichever is less
Stability - One Year Zero Drift	17-4 / 316L: $\pm 0.5\%$ FS
Frequency Response	< 5 mS

## Accuracy

Linearity, Hysteresis & Repeatability	$\pm 1.0\%$ of Full Scale (BFSL)
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## Environmental

Operating Temperature	-17 to 70°C / 0 to 158°F
Compensated Temperature	
$\leq 10$ psi:	0° to 60°C / 32° to 140°F
$10 < x \leq 1000$ psi:	-10° to 70°C / 14° to 158°F
$> 1000$ psi:	-17° to 54°C / 0° to 130°F

## Electrical

Supply Voltage (at sensor)	4-20 mA:	9-28 VDC
	0 to 5 VDC:	9-28 VDC
	0 to 10 VDC:	12.5-28 VDC
Output Signal @ 21°C / 70°F	4-20 mA:	3-30 mA max.
	0 to 5 VDC:	7mA max
	0 to 10 VDC:	14mA max

## Materials of Construction

Wetted Materials	
$\leq 1000$ psi:	316L Stainless Steel
$> 1000$ psi:	17-4 Stainless Steel
Enclosure	316L Stainless Steel

## Physical

Process Connection	1/4 - 18 NPTF
Electrical Connection:	Pigtail with cable or connector
Electrical Protection	Protected against reverse polarity, surge per IEC 61000-4-5
Weight	10 oz (283 g) typical

## PT-300 ACCESSORIES

Please order separately, by part number.

Description	Part Number
6 pin bayonet mating connector (E17) Connector only	509120
6 pin bayonet mating connector (E17) with 2 ft cable	509120-1002
6 pin bayonet mating connector (E17) with 10 ft cable	509120-1010
6 pin bayonet mating connector (E17) with 25 ft cable	509120-1025
6 pin bayonet mating connector (E17) with 50 ft cable	509120-1050
4 pin female micro connector (M12) mating connector (E4) Field wireable	509087
4 pin female micro connector (M12) mating connector (E4) with 2 m molded cable	135407-0002
4 pin female micro connector (M12) mating connector (E4) with 5 m molded cable	135407-0005

## COMMON MODEL CONFIGURATIONS

Model Number	Model Description
PT-300-L1-30-PSIS-E5-5-P5-N3-M1-S11	<b>0-30 PSI</b> , Sealed Gauge, 4-20 mA Output, 5 ft. pigtail, <b>316L SS</b>
PT-300-L1-50-PSIS-E5-5-P5-N3-M1-S11	<b>0-50 PSI</b> , Sealed Gauge, 4-20 mA Output, 5 ft. pigtail, <b>316L SS</b>
PT-300-L1-100-PSIS-E5-5-P5-N3-M1-S11	<b>0-100 PSI</b> , Sealed Gauge, 4-20 mA Output, 5 ft. pigtail, <b>316L SS</b>
PT-300-L1-300-PSIS-E5-5-P5-N3-M1-S11	<b>0-300 PSI</b> , Sealed Gauge, 4-20 mA Output, 5 ft. pigtail, <b>316L SS</b>
PT-300-L1-750-PSIS-E5-5-P5-N3-M1-S11	<b>0-750 PSI</b> , Sealed Gauge, 4-20 mA Output, 5 ft. pigtail, <b>316L SS</b>
PT-300-L1-1000-PSIS-E5-5-P5-N3-M1-S11	<b>0-1k PSI</b> , Sealed Gauge, 4-20 mA Output, 5 ft. pigtail, <b>316L SS</b>





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