

# 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
- Accurate in harsh conditions

# PT-300 SPECIFICATIONS

## Performance

Pressure Ranges	0 to 10K PSIS (Per Part Number)
Analog Output	4-20mA
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: $\leq \pm 0.5\%$ FS
Frequency Response	< 5 mS

## Accuracy

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

## 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)	9-28 VDC
----------------------------	----------

## 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>

# MODEL NUMBER CONFIGURATOR

Model Number: PT-300 -      -      -      -      -      -      -      -      -      -     

**A      B      C      D      E      F      G      H      I      J**

## A. Operation / Output

- **L1▲** 4 - 20 mA output

## B. Common Pressure Ranges - PSI\*

- **5**      □ **50**      □ **300**      □ **2000**
- **10**      □ **60**      □ **500**      □ **3000**
- **15**      □ **100**      □ **750**      □ **5000**
- **30**      □ **200**      □ **1000**      □ **7500**

\*Other ranges available. Please consult factory.

## C. Units of Measure

- **psi▲**

## D. Pressure Type

- **A** Absolute ( ≤ 200 psi)
- **S▲** Sealed ( ≥ 4 psi)
- **G** Gauge ( ≤ 500 psi)

## E. Electrical Connection

(Mating connector sold separately)

- **E4** M12 Connector
- **E5▲** Pigtail with cable (specify cable length below)
- **E17** 6 pin bayonet (PT02E-10-6P)
- **E47** 6 pin bayonet (PT02E-10-6P) PIN A: +PWR/SIG  
PIN D: -PWR/SIG

## F. Electrical Cable Length

- Number represents cable length in ft to be included on E5 options.  
(ex. E5-2 equals pigtail, 2 ft cable)

▲This option is standard

## G. Process Connection

- **P0** 1/4 - 18 NPTM
- **P5▲** 1/4 - 18 NPTF

## H. Accuracy

- **N3▲** ±1.0%
- **N4** ±1.0% with NIST certification

## I. Materials

- **M1** 316L SS ( ≤ 1000 psi)
- **M2▲** 17-4 SS ( > 1000 psi)

## J. Temperature Compensation Range

- **S11**

Operating Temperature	-17 to 70°C / 0 to 158°F
Compensated Temperature	
	≤ 5 psi: No temperature compensation
	5 < x ≤ 10 psi: 0° to 60°C / 32° to 140°F
	10 < x ≤ 1000 psi: -10° to 70°C / 14° to 158°F
	> 1000 psi: -17° to 54°C / 0° to 130°F



Automation Products Group, Inc.  
Tel: 1 (888) 525-7300 or 1 (435) 753-7300

e-mail: [sales@apgsensors.com](mailto:sales@apgsensors.com)  
[www.apgsensors.com](http://www.apgsensors.com)

Automation Products Group, Inc.  
1025 W. 1700 N.  
Logan, UT 84321