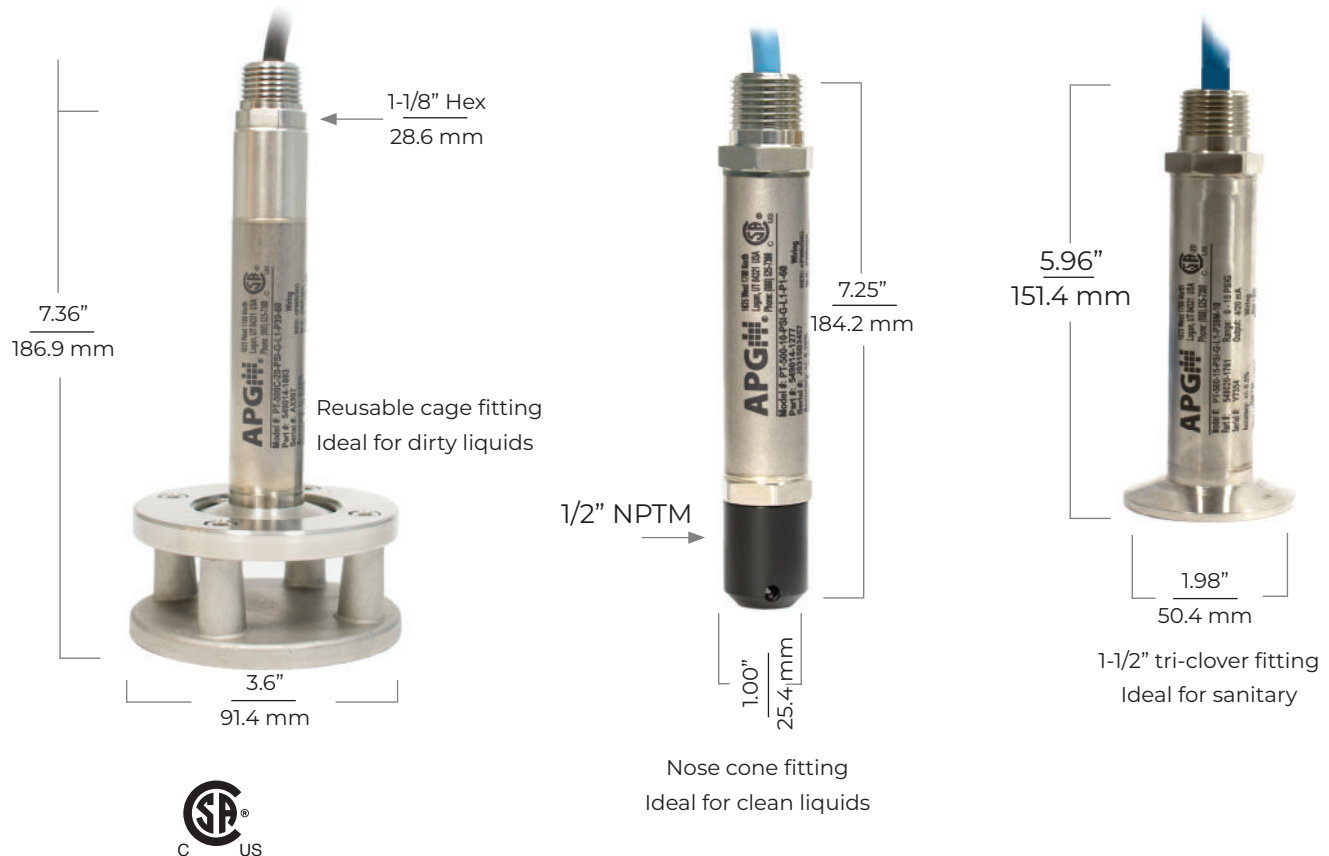


# PT-500 Series

Submersible Level Transmitters For  
Clean and Dirty Liquids

## Datasheet



The PT-500 is a rugged submersible pressure transmitter designed for tank liquid level measurement, water and wastewater applications, and well depth measurement.

### Features

- Simple to install
- High precision, solid state signal: 4-20 mA
- Exclusive, removable and reusable cage
- 1/2" NPTM option on cable end for use with conduit
- Durable transducer face
- Intrinsically safe for Class I, Div 1/Zone 0 (4-20mA only)
- Built-in lightning transient protection on every model
- Single seal for highest safety protection factor
- Field adjustable zero (magnet included)

# PT-500 SPECIFICATIONS



## Performance

- Accuracy (linearity, hysteresis, & repeatability):  
± 0.250% of span (BFSL) (1% for ≤ 1 psi)
- 1 Year Stability: 0-20,000 PSIS
- Temp Effects on Zero & Span:  
≤ 0.025% FS/°F @ 70°

## Connectivity

- Output:  
4-20 mA  
0-5, 1-5, 1-10 VDC  
mV/V

## Environmental

- Maximum Depth:  
Submersible up to 575 ft.
- Standard Compensated Temp.:  
≤ 10 psi: 0° to 60°C / 32° to 140°F  
> 10 psi: -10° to 70°C / 14° to 158°F
- Storage Temp: -40° to 82°C / -40° to 180°F
- Operating Temp: -40° to 85°C / -40° to 185°F

## Certification

- 4-20 mA Output Only:  
CSA Intrinsically Safe:  
Class 1, Division 1; Groups C & D  
Ex ia IIB T4  
Class 1, Zone 0, AEx ia IIB T4  
Ambient: -40 - 85°C  
Single Seal

## Electrical

- Supply Voltage:  
4-20 mA, 0-5 VDC, 1-5 VDC: 9-28 VDC  
1-10 VDC: 14-28 VDC  
mV/V: 10 VDC
- Current Draw:  
4-20 mA: 3-30 mA  
0-5 VDC, 1-5 VDC, 1-10 VDC: 3 mA
- Electrical Connection:  
Vented watertight cable w/free ends  
Up to 200 lbs tensile strength
- Electrical Protection:  
Built in Lightning Transient and Surge  
protection  
Protected against reverse polarity, surge per  
IEC 61000-4-5

## Physical

- Sensor Housing: 316L SS
- Enclosure: 316L SS
- Seal Housing: 316L SS
- Seal: Viton ETP-s
- Protective Nose Cone: Delrin
- Cables: PVC, Polyurethane, Hytrel

# PT-500 COMMON MODEL CONFIGURATIONS

## Waste Water Configurations

Model Number	Model Description
PT-500C-5-PSI-G-L1-E0-P39-40-N0	4-20mA, <b>0-5 PSI</b> , Removable cage and 1-1/2" Tri-clover, <b>40 ft. PVC cable, 0° - 60°C</b>
PT-500C-10-PSI-G-L1-E0-P39-40-N0	4-20mA, <b>0-10 PSI</b> , Removable cage and 1-1/2" Tri-clover, <b>40 ft. PVC cable, 0° - 60°C</b>
PT-500C-15-PSI-G-L1-E0-P39-60-N0	4-20mA, <b>0-15 PSI</b> , Removable cage and 1-1/2" Tri-clover, <b>60 ft. PVC cable, -10° - 70°C</b>
PT-500C-20-PSI-G-L1-E0-P39-60-N0	4-20mA, <b>0-20 PSI</b> , Removable cage and 1-1/2" Tri-clover, <b>60 ft. PVC cable, -10° - 70°C</b>

## Clean Water Configurations

Model Number	Model Description
PT-500C-5-PSI-G-L1-E0-P1-40-N0	4-20mA, <b>0-5 PSI</b> , 1/2" NPTM and removable nose cone, <b>40 ft. PVC cable, 0° - 60°C</b>
PT-500C-10-PSI-G-L1-E0-P1-40-N0	4-20mA, <b>0-10 PSI</b> , 1/2" NPTM and removable nose cone, <b>40 ft. PVC cable, 0° - 60°C</b>
PT-500C-15-PSI-G-L1-E0-P1-60-N0	4-20mA, <b>0-15 PSI</b> , 1/2" NPTM and removable nose cone, <b>60 ft. PVC cable, -10° - 70°C</b>
PT-500C-20-PSI-G-L1-E0-P1-60-N0	4-20m, <b>0-20 PSI</b> , 1/2" NPTM and removable nose cone, <b>60 ft. PVC cable, -10° - 70°C</b>

## PT-500 ACCESSORIES

Please order separately, by part number.

Description	Part Number
Desiccant drying cartridge for breathing tube	122774-0028
Cage assembly	548001-8888
Gore filter*	511328

Note: \*This option is included with a vented sensor purchase unless a desiccant cartridge is ordered.

## Tank Cloud Compatible

The PT-500's low power consumption make it ideal for remote monitoring applications - especially when you're relying on solar or battery power. The Modbus version is compatible with our online remote monitoring software Tank Cloud.

View level readings online on our Tank Cloud portal - levelandflow.com. You can even add in low cost data logging and alarms. Tank Cloud means you can keep an eye on your remote tanks and wells from your office or your smartphone.



Contact us today to discuss how remote monitoring with Tank Cloud can help you save time and money! Read more on our website at <https://www.apgsensors.com/product-category/remote-monitoring/> and click "How It Works."





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