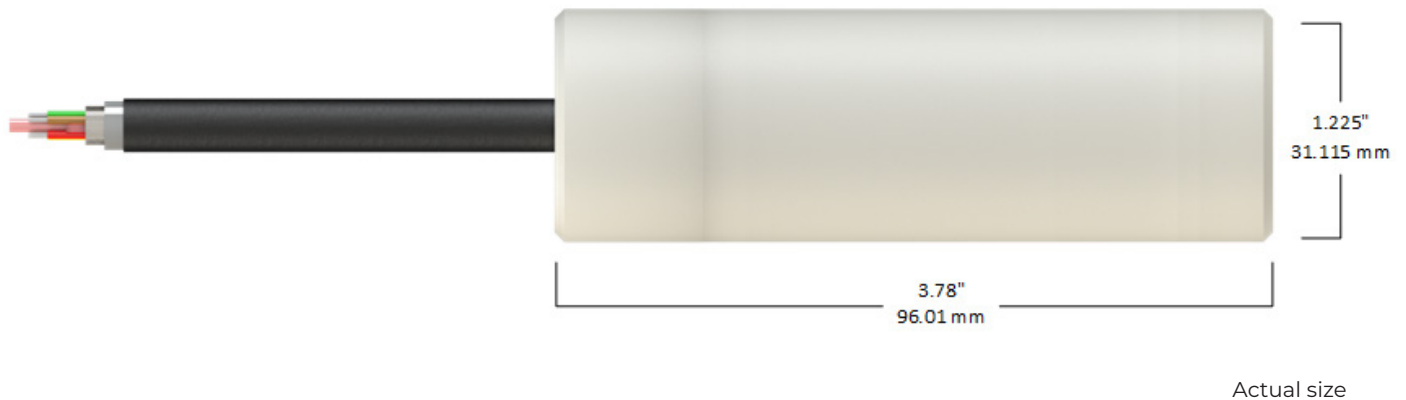


PT-503 Series

Submersible Pressure Transmitter For
Harsh Chemical Environments

4-20 mA, 0.5 – 4.5 VDC

Datasheet



The PT-503 Series Submersible Level Sensor brings precision level measurement to harsh chemical environments. Engineered with advanced materials, the PT-503 can be used in many places that stainless steel and PVC can't go. With user-friendly analog output options and the ability to submerge it up to 69 feet (21 meters) underwater (30 psig), the PT-503 simplifies the process of obtaining dependable level measurements in challenging chemical environments.

Features

- Simple to install
- High precision, amplified outputs 4-20 mA, 0.5 – 4.5 VDC (Ratiometric)
- Withstands most caustic or corrosive chemicals

PT-503 SPECIFICATIONS

Performance

Pressure Ranges	0 to 30 PSIG
Analog Output	4-20mA, 0.5 – 4.5 VDC (Ratiometric)
Over Pressure	2X FSO
Burst Pressure	3X FSO
1 Year Stability	≤0.75% of span

Accuracy

Overall (Linearity, Hysteresis, Repeatability)	±0.5% of Full Scale (BFSL)
Thermal Span Shift (0°F to 158°F)	±0.008% of Full Scale / °F (±0.014% / °C)
Thermal Zero Shift (0°F to 158°F)	±0.008% of Full Scale / °F (±0.014% / °C)

Environmental

Operating Temperature	0°F to 158°F (-18°C to 70°C)
Maximum Submersible Depth	69 ft / 21 m in water / 30 psig
Fluid Maximum Specific Gravity	2

Electrical

Supply Voltage (at sensor)	4-20 mA:	9-30 VDC
	0.5 – 4.5 VDC:	4.5 – 5.5 VDC
Current Draw	4-20 mA:	3-30 mA
	0.5 – 4.5 VDC:	3 mA

Wetted Materials

Ceramic AL2O3
FEP
FKM (Viton™ ETP)
PVDF

PT-503 MODEL NUMBER CONFIGURATOR

Part Number: PT-503 – – PSI – G – – – N12
A **B** **C** **D** **E** **F**

A. Pressure Range – PSI

- ☐ **7.5** ☐ **15** ☐ **30**

B. Units of Measure

- ☐ **PSI**

C. Pressure Type

- ☐ **G** Gauge

D. Output

- ☐ **L1**[▲] 4-20 mA, 2-wire
☐ **L20** 0.5 – 4.5V, 3-wire (Ratiometric)

E. Cable Length

- ☐ **XXX** (specify length of cable needed in feet)

F. Accuracy

- ☐ **N12** ±0.5%

Note: ▲ Indicates this option is standard.

PT-503 COMMON MODEL CONFIGURATIONS

Model Number	Model Description
PT-503-7.5-PSI-G-L1-15-N12	4-20 mA output, 0-7.5 PSI , 15 ft cable
PT-503-15-PSI-G-L1-20-N12	4-20 mA output, 0-15 PSI , 20 ft cable
PT-503-30-PSI-G-L1-30-N12	4-20 mA output, 0-30 PSI , 30 ft cable
PT-503-7.5-PSI-G-L20-15-N12	0.5-4.5V output, 0-7.5 PSI , 15 ft cable
PT-503-15-PSI-G-L20-20-N12	0.5-4.5V output, 0-15 PSI , 20 ft cable
PT-503-30-PSI-G-L20-30-N12	0.5-4.5V output, 0-30 PSI , 30 ft cable

PT-503 ACCESSORIES

Please order separately, by part number.

Description	Part Number
Desiccant drying cartridge for breathing tube	122774-0028
Breathable hydrophobic vent cap*	511328
Sour gas scrubber cartridge for breathing tube**	201246

*The hydrophobic vent cap comes pre-installed on your PT-503.

**The sour gas scrubber cartridge is used when the cable is terminated in high acid-gas environments (e.g. Sour H2S gas).



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