



## PLT10 Series



- Liquid Level Measurements
- IP68
- $\pm 0.5\%$  Linearity FS
- 4-20mA
- Measure up to 690 Foot deep
- $\pm 0.3\%$  FS Stability over 12 months
- Custom Water Depth Calibration

### DESCRIPTION

The PLT10 is a submersible liquid level transducer. The stainless steel housing and piezo-resistive pressure sensor design allows for highly reliable design and great stability over time.

The PLT10 has a response time of  $\sim 3\text{ms}$  for fast response applications. Please contact us for Custom design availability.

### APPLICATIONS

- Waste Water
- Hydrology
- Gasoline/Diesel
- Medical Applications
- City Water

### Measuring Ranges

Order Code	01	02	03	05	10	20	50	100	200
Units	Ft-H2O								
Water Depth	3	6	9	15	30	60	150	300	600

Note: 1. Standard Factory calibration is for Water depth measurement. Contact factory for custom calibrations.

## PLT10 Operational Characteristics

$V_+ = 10V$ , $V_- = 0V$ , Temperature = 25°C					
PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS
Excitation Voltage	$V_{EX}$	8		28	V
Output	mA	4		20	mA
Linearity (Note 2)			.25	0.5	%FS
Repeatability		-.05		.05	%FS
Temperature Compensation			-0 – 50		C
Operation Temperature			-10 – 80		C
Full Scale Thermal Error			.05	.07	%FS/C
Response Time	$t_R$		10	150	ms
Long Term Stability			.2		%FS/Yr

## Application Information

### Package

The port and diaphragm are made of stainless steel (SS316L), which allows for harsh media such as hydraulic oils, inks, etc. Automotive grade vibration proof design for high vibration applications.

### Stability

The silicon MEMS oil-filled pressure sensor exhibit low thermal hysteresis and excellent long term stability. The rigid 316 Stainless steel housing isolates the sensor from mechanical stress during the mounting of the sensor.

Additional stability is gained from factory stabilization of all sensors.

### Pressure port

G1/4" female is the standard SS port fitting. Other port fittings such as 1/4"NPT Male, 7/16-20UNF, and 1/4" BSP are available for OEM customers.

### Media

The pressure port is tolerant to most media including but not limited to oil, air, gas, some corrosive media, and salt water.

### Wetted parts

The wetted surfaces are composed of stainless steel, vitron, and/or Tantalum.

### Pressure ranges

Standard pressure ranges are 5, 10, 15, 30, 50, 100, and 200 psi. Custom pressure ranges are available for OEM customers.



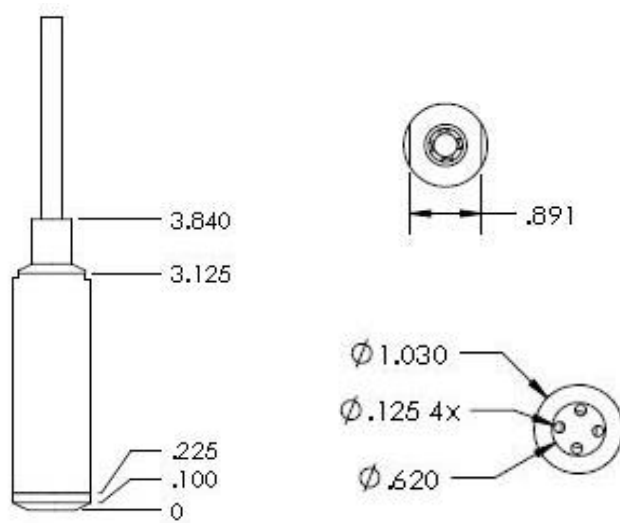
**City Waste Water**

## Mechanical Dimensions (inches)

Cable: .20" Diameter Polyethylene/Polyurethane Cable Diaphragm: SS 316L

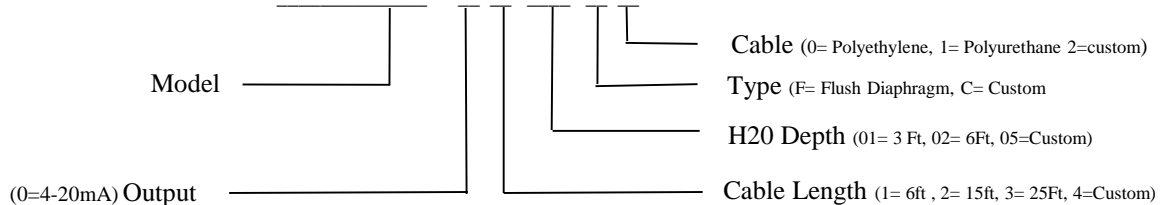
### Electrical Connections

Wire Color	Connection
Red	V+
Black	0V, Out+



## Part Number Configuration

**PLT10-01-01F0**



## Standard Part Numbers

Model	H2O Depth Feet	Type	Max Depth Feet
PLT10-01-05F0	15	Flush	25
PLT10-01-10F0	30	Flush	40
PLT10-01-15F0	45	Flush	60
PLT10-01-30F0	90	Flush	120
PLT10-01-50F0	150	Flush	200

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