



PLT10 Series



- Liquid Level Measurements
- IP68
- +/- .5% Linearity FS
- 4-20mA
- Measure up to 690ft deep
- .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 ~3ms 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	15	20	25	30	35	60	150	300	600
Units	Ft-H2O								
Water Depth	15	20	25	30	35	60	150	300	600

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

PLT10 Operational Characteristics

$V_+ = 10V, V_- = 0V, \text{ Temperature} = 25^\circ\text{C}$					
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 housing is made of stainless steel (SS316L), which allows for harsh media such as hydraulic oils, inks, etc. The PLT10 is rated as IP68, meaning it can handle harsh media for an extended duration.

Stability

The robust SS design allows for long term use and stability. Users can expect +/- 0.2% accuracy drift annually.

Water Depth

Water Depths are available in a variety of options. Measure as low as 15ft, and all the way up to 600ft, the PLT10 can meet many different requirements.

Media

The sensor 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, and Polyether Polyurethane.

Cable Length

Many different cable length options are available to the customer. This allows for flexibility when measuring at different depths of the selected media.



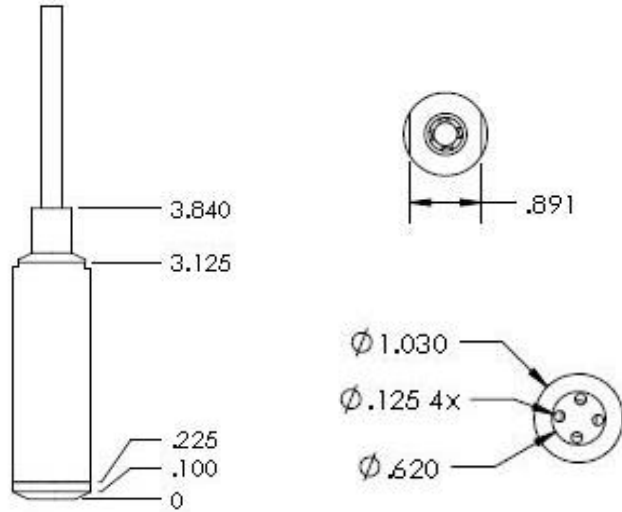
City Waste Water

Mechanical Dimensions (inches)

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

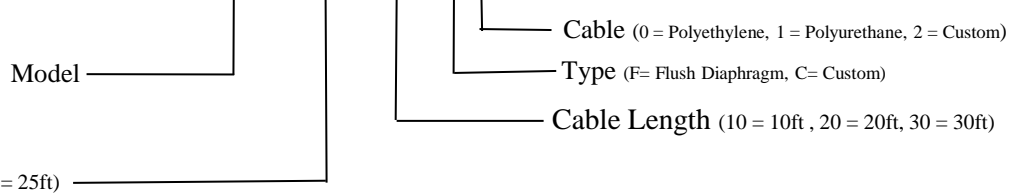
Electrical Connections

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



Part Number Configuration

PLT10-15-20 F0



NOTE: CUSTOM CABLE LENGTHS & CALIBRATION DEPTHS AVAILABLE FOR OEM CUSTOMERS, ADDITIONAL CHARGES MAY APPLY

Standard Part Numbers

Model	H2O Depth Feet	Type	Cable Length Feet
PLT10-15-20F0	15	Flush	20
PLT10-20-25F0	20	Flush	25
PLT10-25-30F0	25	Flush	30
PLT10-30-35F0	30	Flush	35
PLT10-35-40F0	35	Flush	40

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