# Model PLT

## Depth / Level & Temperature Transmitter

## Description

PLT model, the highest precise Transmitter, is affordable simultaneous measure temperature and pressure at a same time. PLT made of Vented Polyurethane cable, being used atmospheric compensation. It is compact size (Ø30), best available for waterproof to a depth of 350m.

## Features

- 4~20mA output
- Pressure : 0.15%FS accuracy
- Temperature : 0.5%FS accuracy
- Diameter : Ø30
- Fully sealed construction
- Vented polyurethane cable
- Pressure Cell : Piezoresistive silicon
- Temperature Cell : PT100
- Stainless steel(316L) media-wetted materials

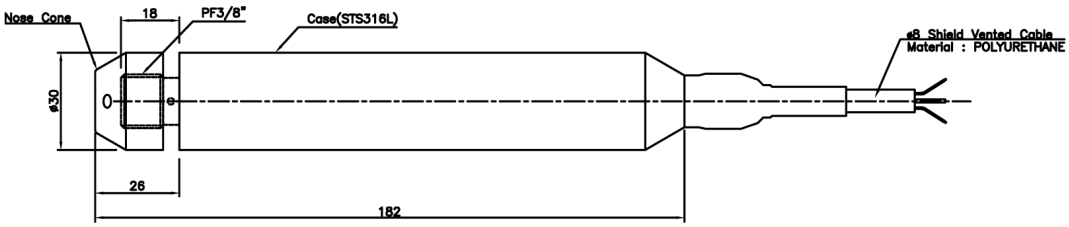
## Applications

- Tank Level & Temperature Measurement
- Deep Well Measurement
- Ship & Marine System
- Ground & Surface Water Monitoring
- Geophysical Application
- Water Supply & Reservoirs

## Specifications

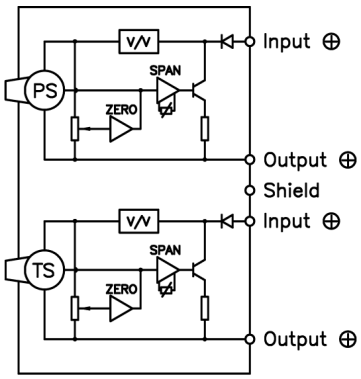
| | Pressure | Temperature |
|---|---|---|
| **Range** | | |
| | 0~3,5,10,20,30,50,70,200,350m$H_2O$(Gauge,Absolute) | -20~50, 0~50, 0~70℃ |
| **Sensing Element** | | |
| | Piezoresistive silicon | RTD(PT100Ω) |
| **Performance** | | |
| Accuracy | ±0.15%FS(RSS) | ±0.5%FS(RSS) |
| Thermal Effect on Zero | ±0.03%FS/℃ | - |
| Thermal Effect on Span | ±0.03%FS/℃ | - |
| Compensated Temperature Range | 0 ~ 70℃ | - |
| Operating Temperature Range | -20 ~ 80℃ | |
| **Electrical** | | |
| Excitation | 11 ~ 28VDC | |
| Output | 4~20mA(2Wire) | |
| Electrical Connection | Φ8 Vented Tube Polyurethane Cable | |
| **Physical** | | |
| Proof Pressure | 300%FS Max. | |
| Burst Pressure | 400%FS Min. | |
| Vibration | 49.1m/$s^2${5G}, 10~500Hz | |
| Shock | 490m/$s^2${50G} | |
| Protection | IP68 | |
| Media-Wetted Materials | Stainless Steel 316L, VITION | |
| Weight | Approx. Sensor 400g | |

## Dimension




| Sensor | Wire Color | Connections |
|---|---|---|
| Pressure | Red | Input ⊕ |
| | Black | Output ⊕ |
| Temperature | Green | Input ⊕ |
| | White | Output ⊕ |
| | Shield | Earth |

## Internal Circuit Diagram




## Ordering Information

**PLT H 0010 K G 00/50 C**

**Model Name**

**Output**

H : 2Wire 4~20mA

**Pressure Range**

XXXX : Pressure

**Pressure Unit**

R : kPa
B : bar
P : psi
C : $cmH_2O$
M : MPa
K : $kgf/cm^2$
H : mmHg

**Temperature Unit**

C : ℃
F : ℉

**Temperature Range**

-20/50 : -20~50
00/50 : 0~50
00/70 : 0~70

**Type of Pressure Measurement**

G : Gauge
J : Absolute