

DATASHEET

Level

Integrated 3-Parameter CTD Water Level Meter Conductivity&Temperature&Depth Model PWL800



Description

PWL800 is a hydrological&water quality measuring instrument that integrates three-parameters: water level, temperature and conductivity. Those three parameters can be output at the same time.

It's equipped with pressure sensors with high precision and high stability as pressure sensing components, after internally intelligent linear correction and temperature compensation it outputs digital signal, realize high precision, low power consumption, compact size and full functionality.

All in a 316L or titanium alloy housing probe and a cable, makes it very convenient and easy for installation. PWL800 is widely used in groundwater monitoring, surface water monitoring, seawater monitoring, marinescience experiments, educational purpose and other fields.

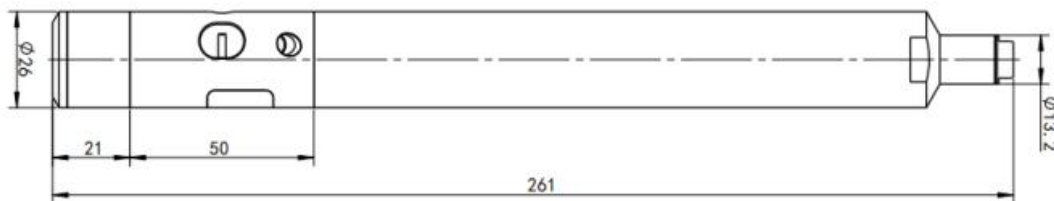
Applications

- Groundwater quality and water level monitoring
- Reservoir and dam water quality and water level
- Lake and surface runoff water quality and water level monitoring
- Unattended water quality and hydrological monitoring stations
- Real-time monitoring of liquid level and water quality in tanks
- On-site liquid level and water quality monitoring of industrial control systems

Features

- High-quality and high-stability sensing elements
- Integrated measurement of water depth, temperature and conductivity
- High accuracy: Level 0.05%F.S., resolution 1mm
- Low consumption: Intelligent power management design
- RS485 Modbus RTU standard communication protocol
- Reverse polarity protection and over-voltage protection
- Anti-surge and anti-electromagnetic interference circuit board
- Internal intelligent linear correction and temperature compensation
- All in one, compact and durable
- IP68 protection level

Dimension (mm)



Electrical Connection

Wire Color	Definition
Red	Vcc+
Yellow	Vcc-
Blue	RS485 A
Green	RS485 B

Specifications

Water Level Sensor	
Water level accuracy	±0.05%FS, ±0.1%FS, ±0.25%FS(0~50℃)
Level Range	0~10m, 20m, 40m, 80m...300mH ₂ O
Safe Overload	≤200%FS
Long stability	<0.05%F.S/year
Water Temperature Sensor	
Temperature Accuracy	±0.2℃(0~70℃)
Temperature Range	-40~80℃
Resolution	0.01℃
Conductivity Sensor	
Conductivity Range	0~40mS/cm, 0~100mS/cm, others on request
Conductivity Accuracy	1.5%F.S.
Resolution	0.001mS
Others	
Compensation Temperature	0~50℃
Operating Temperature	-10~70℃
Storage Temperature	0~50℃, 50%-95% humidity
Power Supply	5~30VDC
Working Current	30mA
Communication	RS485 Modbus RTU
Protection Level	IP68
Housing Material	316L stainless steel or titanium alloy
Sensor Nose Cap Material	PEEK
Cable Material	Polyvinyl chloride, polyurethane, Teflon
Cable Specifications	φ7.6 ± 0.2mm water-proof with air hole, shielding layer and steel wire

***Tell us medium / which application / measuring range / working temperature / signal output / what you wanna to realize, our sales engineer will recommend suitable model for you.*