PEC-500A Digital Conductivity Sensor

Measurement Principle

The conductivity sensor is a glass platinum electrode. In general, the voltage is in the form of a sine wave. Conductivity is determined by the ohmic formula based on voltage and current values.



Features

- Power supply and output isolation design to ensure electrical safety.
- Power supply and communication chip built-in protection circuit, strong anti-interference ability.
- With a comprehensive protection circuit design, it can work reliably without additional isolation equipment.
- The circuit part is designed inside the electrode, the environment is well tolerated, and the installation operation is easier.
- RS-485 transmission interface, MODBUS-RTU communication protocol, two-way.
- Communications, can receive remote commands.
- Output more electrode diagnostic information, more intelligent.
- Internal integrated memory, memory calibration and setting.
- Information can be memorized after power off.

Applications

- It is widely used in the monitoring of conductivity in water treatment, hydrological monitoring, wastewater treatment,
- It is widely used in the monitoring of conductivity in swimming pools
- It is widely used in the monitoring of conductivity in fish ponds
- The monitoring of conductivity in fertilizers, chemicals, and biology.

Technical Specifications

Main materials	PPS Shell
Measurement range	0.0-200.0 us/cm ; 0-2000us/cm ; 0.01-20.00ms/cm （Automatic switch）
Accuracy	±2%F.S.
Resolution	Depending on the range 0.01ms/cm、0.1us/cm、1us/cm（Automatic switch）
Repeatability	±1%
Temperature compensation	0-60℃
Pressure range	0-0.1 Mpa
Electrode Temp. resistance	0-60℃（Non-freezing）
Power supply	12VDC
Communication Protocol	MODBUS RS485
Dimension	Dia26mm*L 166mm
Protective rate	IP68 (Protective casing)
Mounting thread	3/4" thread
Cable length	Standard：10M，the maximum can be extended 200m

Probest Intelligent Technology Co., Ltd.
Email: probest@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com