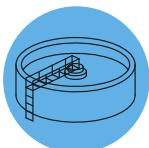




PEC-500A

Conductivity Sensor



PEC-500A

Conductivity Sensor

Introducing the PEC-500A Conductivity Sensor with a durable PPS Shell. This sensor offers precision, reliability, and versatility, making it an ideal solution for diverse applications. It features a wide measurement range with automatic range switching, ensuring accurate results even in challenging conditions. With an accuracy of $\pm 2\%$ F.S. and temperature compensation up to 60°C , this sensor delivers dependable conductivity measurements. Compact, IP68 rated, and supporting MODBUS RS485 communication, it offers easy installation with its 3/4 mounting thread and standard 10-meter cable.



Product Features

- Electrical Safety:** Equipped with power supply and output isolation design for enhanced electrical safety.
- Anti-Interference:** Built-in protection circuit for power supply and communication chip, offering strong anti-interference ability.
- Comprehensive Protection:** Features comprehensive protection circuit design, ensuring reliable operation without additional equipment.
- Internal Circuit Design:** Circuit part integrated within the electrode, providing environmental tolerance and easy installation.
- Communication Interface:** RS-485 transmission interface, MODBUS-RTU communication protocol, supporting two-way communication and remote command reception.
- Advanced Diagnostics:** Offers additional electrode diagnostic information, enhancing intelligent monitoring capabilities.
- Integrated Memory:** Internal memory stores calibration and setting information, even after power-off.

PEC-500A

Technical Specifications

Physical Specifications	
Main Material	PPS Shell
Dimensions	Dia26mm * Length 166mm
Cable Length	Standard: 10M, Max. extendable to 200M
Mounting Thread	3/4" thread
Measurement Specifications - Conductivity	
Measurement Range	0.0~200.0 us/cm 0~2000 us/cm 0.01~20.00 ms/cm (Automatic switch)
Accuracy	±2%F.S.
Resolution	Depending on the range: 0.01 ms/cm, 0.1 us/cm, 1 us/cm (Automatic switch)
Repeatability	±1%
Temperature Specifications	
Temperature Compensation	0~60°C
Electrode Temperature Resistance	0~60°C (Non-freezing)
Pressure Specifications	
Pressure Range	0~0.1 Mpa
Electrical Specifications	
Power Supply	12VDC
Communication Protocol	MODBUS RS485
Protection and Communication	
Protective Rate	IP68 (Protective casing)

Measurement Principle

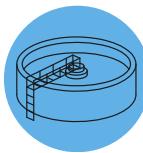
The Conductivity Sensor employs a glass platinum electrode. Conductivity is determined through the ohmic formula based on voltage and current values. The sensor's precision and reliability make it a valuable tool for accurate conductivity measurements.



APPLICATIONS



Wastewater Treatment
Ensuring proper conductivity levels in wastewater treatment facilities.



Water Plants
Precise monitoring of conductivity levels for optimal water treatment processes.



Swimming Pools
Monitoring conductivity for maintaining safe and comfortable swimming pool conditions.



Hydrological Monitoring
Accurate measurement of conductivity in natural water bodies for environmental assessment.



Fertilizers and Chemicals
Monitoring conductivity in fertilizer and chemical solutions for quality control.



Fish Ponds
Controlling conductivity to create a suitable environment for aquatic life in fish ponds.



Note -

This data sheet serves as general information about the PEC-500A . For specific technical details, installation guidelines, and troubleshooting assistance, please refer to the official user manual provided with the product.

For inquiries and detailed technical information, please contact info@advanceanalytik.com .

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