PPH-500B pH Online Analyzer

Introduction





PPH-500B is a digital PH sensor using RS485 communication interface and standard Modbus protocol. It adopts stainless steel corrosion-resistant casing, IP68 protection grade, built-in PT1000 temperature sensitive resistor and compensation algorithm, which has the advantages of high precision, long life and small drift, and is suitable for various harsh working environments.

Main Features

- Built-in PT-1000 temp. sensitive resistor, effective temperature compensation.
- Support replacement of electrode cores to reduce operation and maintenance costs.
- Industrial grade composite pH electrode, suitable for harsh working environment.
- Corrosion-resistant shell, waterproof grade IP68, can work underwater for a long time.
- RS485 communication interface, standard Modbus protocol, easy to integrate.
- Standard digital signal output, can achieve integration and networking with other equipment without controller.
- Built-in self-diagnosis function to ensure the accuracy of data.
- Digital sensor, high anti-jamming capacity and far transmission distance.
- Plug-and-play sensor, quick and easy installation.
- Sensor power supply positive and negative reverse connection protection.
- Sensor RS485 A/B terminal is connected to the power supply protection.
- With time display, data storage and historical data viewing function.
- Optional data wireless transmission module.

Application

- Surface water, waterworks, aquaculture
- Municipal sewage, industrial wastewater, sewage treatment, industrial process

Technical Specifications

Measuring range	0-14pH
Main material	316L Stainless steel ； Cable: PUR
Resolution	0.01pH
Repeatability	±0.1pH
Precision	±0.1pH
Temperature range	-15-100℃
Temp. resolution	0.1℃
Temp. accuracy	0.5℃
Electrode withstand voltage	0-0.1Mpa
Electrode Temp. resistance	0-45℃ (Non-freezing)
Communication protocol	MODBUS RS485
Power supply	AC：85-500VAC ;DC：9-36VDC
Output	3-way 4-20mA
Relay	Three-way relays, programmed response parameter and response value.
Protective rate	Sensor：IP68/NEMA6P；Transmitter：IP66/ NEMA4X
Dimensions	Sensor：Dia34mm*L 252mm;Transmitter：145*125*162mm(L*W*H)
Mounting thread	3/4 inch front and rear threads
Cable length	Standard cabel:10M，Max extended to 200M.

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