PCH-800A Chlorophyll Online Analyzer

Measurement Principle



The principle of PCH-800A Chlorophyll Sensor is using the characteristics of chlorophyll A who has absorption peaks and emission peaks in the spectrum.，and emits monochromatic light of a specific wavelength to the water. The light intensity of chlorophyll A is proportional to the content of chlorophyll A in the water.

Features

- Based on the Fluorescent measuring target parameter of pigment can be identified before affected by potential water bloom.
- Without extraction or other treatment, rapid detection to avoid the impact of long shelving the water sample.
- Digital sensor high anti-jamming capacity and far transmission distance.
- Standard digital signal output, can achieve integration and networking with other equipment without controller.
- Plug-and-play sensors, quick and easy installation.
- Reverse polarity protection of sensor power.

Applications

- Chlorophyll online monitoring of water plant inlet. drinking water source and aquaculture and etc.
- Chlorophyll online monitoring of different water bodies such as surface water, landscape water and seawater and etc.

Technical Specifications

Measurement range	0-500 ug/L
Measurement Accuracy	±5% of the signal level corresponding value of 1ppb Rhodamine B Dye
Resolution	0.01ug/L
Repeatability	±3%
Pressure range	≤0.4Mpa
Calibration	Deviation value calibration, slope Calibration
Requirements	Suggest multipoint monitoring for the distribution of Blue-Green algae in the water is very uneven. Water turbidity is below 50NTU.
Main material	Body：SUS316L (fresh water), Titanium alloy (marine) Cover：POM；Cable：PUR
Power supply	AC：85-500VAC；DC：9~36VDC
Output	3-way 4-20mA
Relay	Three-way relays, programmed response parameter and response value.
Communication protocol	MODBUS RS485
Storage temperature	-15-50℃
Measuring temperature	0- 45℃（Non-freezing）
Dimension	Sensor：Dia30mm*L 223mm Transmitter：145*125*162mm(L*W*H)
Weight	Sensor：0.55KG；Transmitter：1.35KG
Protective rate	Sensor：IP68/NEMA6P；Transmitter：IP66/ NEMA4X
Cable length	Standard:10m, the maximum may be extended to 100m

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