PBA-800A Blue-Green Algae Online Analyzer

Measurement Principle

The principle of PBA-800A Blue-Green Algae Sensor is using the characteristics of cyanobacteria 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 Blue-Green Algae is proportional to the content of Blue-Green Algae 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.

Applications

- Blue-green algae online monitoring of water plant inlet, drinking water source, aquaculture and etc.
- Blue-green algae online monitoring of different water bodies such as surface water, scenic water and etc.

Technical Specifications

Measurement range	0-300,000cells/mL
Detection limit	200cells/mL
Measurement Accuracy	±10% of the signal level corresponding value of 1ppbRhodamine B Dye
Resolution	20cells/mL
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 + PVC；Cover：POM；Cable：PUR
Power supply	AC：85-500VAC;DC：9-36VDC
Output	3-way 4-20mA
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
Relay	Three-way relays, programmed response parameter and response value.

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