## **Chlorophyll Sensor**

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### **Measurement Principle:**

The principle of CS6400D Chlorophyll Sensor is using the characteristics of chlorophyll A who has absorption peaks and emission peaks in the spectrum. The absorption peaks emit monochromatic light into the water, chlorophyll A in the water absorbs the energy of monochromatic light, releasing monochromatic light of emission peak of another wavelength. The light intensity emitted by cyanobacteria is proportional to the content of chlorophyll A in 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.

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# Technical Specifications::

Measurement range	0-500 ug/L
Measurement Accuracy	±5% of the signal level corresponding value of 1ppb Rhodamine B Dye
Repeatability	±3%
Resolution	0.01 ug/L
Pressure range	≤0.4Mpa
Calibration	Deviation value calibration, slope Calibration
Requirements	Suggest a multipoint monitoring for the distribution of Blue-Green Algaein water is very uneven.Water turbidity is below 50NTU.
Main material	Body: SUS316L (fresh water), Titanium alloy (marine); Cover: POM; Cable: PUR
Power supply	DC: 9~36VDC
Storage temperature	-15-50°C
Communication protocol	MODBUS RS485
Measuring temperature	0-45°C (Non-freezing)
Dimension	Dia38mm*L 245.5mm
Weight	0.8KG
Protective rate	IP68/NEMA6P
Cable length	Standard:10m,the maximum may be extended to 100m