

## CS6401D Blue-green Algae Digital Sensor



### **Principle:**

CS6041D blue-green algae sensor uses the characteristic of cyanobacteria having absorption peak and emission peak in the spectrum to emit monochromatic light of a specific wavelength to the water. Cyanobacteria in the water absorb the energy of this monochromatic light and release monochromatic light of another wavelength. The light intensity emitted by cyanobacteria is proportional to the content of cyanobacteria in the water.

### **Functions:**

Based on the fluorescence of the pigments to measurement the target parameters , it can be identified before the impact of algal bloom.

No need for extraction or other treatment, rapid detection, to avoid the impact of shelving water samples;

Digital sensor, strong anti-interference ability, long transmission distance;

Standard digital signal output can be integrated and networked with other devices without controller.

Installation of sensors on site is convenient and fast, realizing plug and play.

## Technical parameters:

Measuring range	100-300,000cells/mL
Accuracy	The signal level of 1ppb rhodamine WT dye is $\pm 5\%$ of the corresponding value.
Pressure	$\leq 0.4\text{Mpa}$
Calibration	Deviation calibration and slope calibration
Requirements	The distribution of blue-green algae in the water is very uneven, so multi-point monitoring is recommended. The turbidity of water is lower than 50NTU.
Material	Body: SUS316L + PVC(common water),Titanium alloy (seawater); O-ring: fluoro rubber; Cable: PVC
Storage temperature	-15--65°C
Operating temperature	0--45°C
Size	Diameter 37mm* Length220mm
Weight	0.8KG
Waterproof rating	IP68/NEMA6P
Cable length	Standard 10 meters, can be extended to 100 meters