

Blue-Green Algae Online Analyzer T6401 Function

Industrial Blue-Green Algae Online Analyzer is an online water quality monitor and control instrument with microprocessor. It is widely used in power plants, petrochemical industry, metallurgical electronics, mining, paper industry, food and beverage industry, environmental protection water treatment, aquaculture and other industries. The Blue-Green Algae value and temperature value of water solution are continuously monitored and controlled.

Typical Use

- 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, etc.

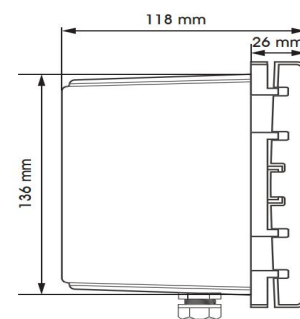
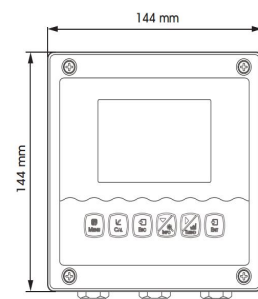
Mains Supply

85~265VAC±10%, 50±1Hz, power ≤3W;

9~36VDC, power consumption ≤3W;

Measuring Range

Blue-green algae: 200—300,000 cells/ML



Blue-Green Algae Online Analyzer T6401

Features

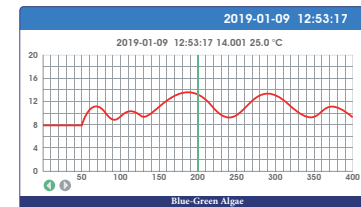
1. Large display, standard 485 communication, with online and offline alarm, 144*144*118mm meter size, 138*138mm hole size, 4.3 inch large screen display.
2. The data curve recording function is installed, the machine replaces the manual meter reading, and the query range is arbitrarily specified, so that the data is no longer lost.
3. Carefully select materials and strictly select each circuit component, which greatly improves the stability of the circuit during long-term operation.
4. The new choke inductance of the power board can effectively reduce the influence of electromagnetic interference, and the data is more stable.
5. The design of the whole machine is waterproof and dustproof, and the back cover of the connection terminal is added to extend the service life in harsh environments.
6. Panel/wall/pipe installation, three options are available to meet various industrial site installation requirements.



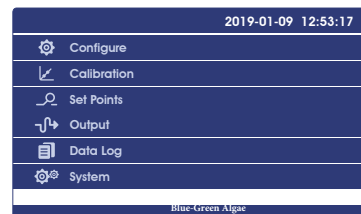
Measurement mode



Calibration mode



Trend chart

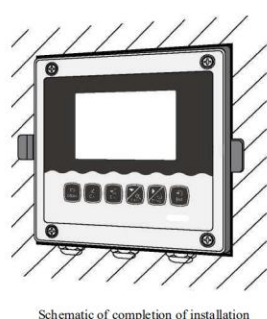


Setting mode

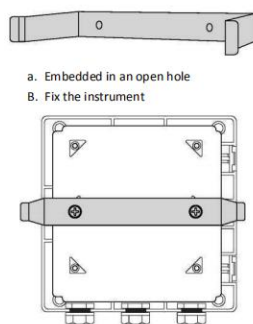
Electrical connections

Electrical connection The connection between the instrument and the sensor: the power supply, output signal, relay alarm contact and the connection between the sensor and the instrument are all inside the instrument. The length of the lead wire for the fixed electrode is usually 5-10 meters, and the corresponding label or color on the sensor Insert the wire into the corresponding terminal inside the instrument and tighten it.

Instrument installation method

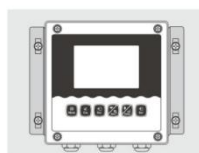


Schematic of completion of installation

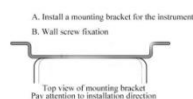
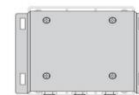
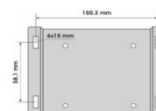


Embedded installation

Instrument installation: Wall mounted installation



Schematic of completion of installation

Top view of mounting bracket
Pay attention to installation direction

Wall mount

Technical specifications

Measurement range	200—300,000cells/ML
Measurement unit	cells/ML
Resolution	25cells/ML
Basic error	±3%
Temperature	-10~150°C
Temperature Resolution	0.1°C
Temperature Basic error	±0.3°C
Current Output	4~20mA,20~4mA,(load resistance<750Ω)
Communication output	RS485 MODBUS RTU
Relay control contacts	5A 240VAC,5A 28VDC or 120VAC
Power supply (optional)	85~265VAC,9~36VDC,power consumption≤3W
Working conditions	No strong magnetic field interference around except the geomagnetic field.
Working temperature	-10~60°C
Relative humidity	≤90%
IP rate	IP65
Instrument Weight	0.8kg
Instrument Dimensions	144×144×118mm
Mounting hole dimensions	138*138mm
Installation methods	Panel,Wall mounted,pipeline

Blue-Green Algae Sensor



Measurement Principle:

The principle of CS6401D Blue-Green Algae Sensor is using the characteristics of cyanobacteria who has absorption peaks and emission peaks in the spectrum. The absorption peaks emit monochromatic light into the water, cyanobacteria 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 cyanobacteria 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.

Technical Specifications::

Measurement range	200—300,000cells/ML
Measurement Accuracy	±10% of the signal level corresponding value of 1ppb Rhodamine B Dye
Repeatability	±3%
Resolution	25cells/ML
Pressure range	≤0.4Mpa
Calibration	Deviation value calibration,slope Calibration
Requirements	Suggest a multipoint monitoring for the distribution of Blue-Green Algae in 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℃
Communication protocol	MODBUS RS485
Measuring temperature	0- 45℃ (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