

CHLOROPHYLL

OPTICAL DIGITAL BLUE-GREEN ALGAE SENSOR - B800

Liquid Analysis

Measurement & Monitoring



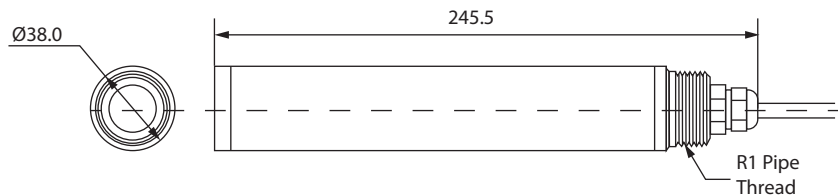
DESCRIPTION

The B800 series online optical digital blue-green algae sensor's principal uses 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. With rapid response, low maintenance cost, real-time online measurement, the B800 is suitable for wide range of applications such as water treatment plant (inlet), drinking water resources and aquaculture.

FEATURES

- ✓ Optical fluorescent measurement technique
- ✓ Identify pigment before it is affected by potential water bloom
- ✓ Requires no extraction or other treatment, rapid detection to avoid the impact of long shelving the water sample
- ✓ Digital sensor with RS485 signal output
- ✓ Strong anti-interference ability
- ✓ Good repeatability and stability
- ✓ Fast response time
- ✓ Low maintenance cost

DIMENSION/DRAWING



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TECHNICAL FEATURES

Operating Condition

Range	100 to 300,000 cells/mL
Measuring Temperature	0 to 45°C
Pressure Range	≤0.4Mpa
Requirements	Suggest a multipoint monitoring for the distribution of Blue-Green Algae in water that is very uneven. Water turbidity is below 50NTU.

Sensor Performance

Accuracy	±5% of the signal level corresponding value of 1ppb Rhodamine WT Dye
Calibration	Deviation value calibration; Slope calibration

Electrical

Communication	RS485 (Modbus)
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Dimension and Protection

Dimension	Diameter 37 mm, Length 220 mm
Protection	IP68/NEMA 6P
Sensor Material	SUS316L + PVC
Signal Cable Length	Standard 10 meter (Maximum 100 meter)

Storage Requirement

Storage Temperature	-15 to 65°C
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