

CHLOROPHYLL

OPTICAL DIGITAL CHLOROPHYLL SENSOR - C800

Liquid Analysis

Measurement & Monitoring



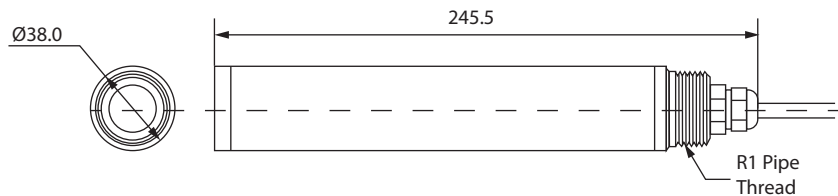
DESCRIPTION

The C800 series online optical digital chlorophyll sensor's principal 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. With rapid response, low maintenance cost, real-time online measurement, the C800 is suitable for wide range of application such as water treatment plant (inlet), drinking water resources and aquacultural.

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
- ✓ Direct and continuous measurement
- ✓ Fast response time
- ✓ Low maintenance cost

DIMENSION/DRAWING



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TECHNICAL FEATURES

Operating Condition

Range	0-500 ug/L
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 38 mm, Length 245.5 mm
Protection	IP68/NEMA 6P
Sensor Material	SUS316L + PVC; Titanium alloy (optional)
Signal Cable Length	Standard 10 meter (Maximum 100 meter)

Storage Requirement

Storage Temperature	-15 to 50°C
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