

SH-CHL200 Chlorophyll A digital sensor

● Overview

SH-CHL200 Chlorophyll A digital sensor adopts specific wavelength and high brightness monochrome light to excite chlorophyll A to emit fluorescence, and receives its fluorescence signal through the highly sensitive photoelectric sensor, and obtains the chlorophyll a concentration in the water body according to the proportionality relationship between the fluorescence intensity and chlorophyll a concentration. The digital intelligent design of the device adopts RS485 interface and standard Modbus protocol, comes with cleaning brush and temperature compensation, with functions of calibration, recording, analysis and diagnosis.

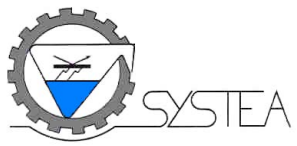
● Product features

- Self-cleaning function to remove adherents and air bubbles, maintenance-free
- Optical and digital filtering technology to eliminate the effects of stray light
- Corrosion-resistant housing, waterproof grade IP68, can work underwater for a long time
- RS485 communication interface, standard Modbus protocol for easy integration.

● Technical specifications

Working Principle	Fluorescence
Measurement range	Chlorophyll: (0-50/500) µg/L, other ranges can be customized Temperature: (0~50) °C
Repeatability	≤1 %
Accuracy	≤5 %
Zero drift (24h)	±1 % F.S.
Range drift (24h)	±3 % F.S.
Detection limit	0.1 µg/L
Resolution	0.01 µg/L
Protection class	IP68
Comm. Interface	RS485, standard Modbus protocol, baud rate 9600
Dimensions	(φ33*178) mm, cable 10 m (customizable)
Materials	316 Stainless-steel/PVC/POM/Titanium alloy available
Weight	0.5 kg
Mounting threads	Upper NPT3/4 thread
Operating voltage	9~36 Vdc
Power absorption	1 W (motor brushes rotating), 0.4 W (motor brushes not working)
Cleaning method	Mechanical brush
Calibration period	3-6 months
Max. depth	30 meters
Operating temp.	(0~50) °C





- **Product applications**

- Environmental surface water, aquaculture plants