

SMR35 Chlorophyll a Analyzer

RS485 Communication. All-in-One Compact Housing. Explosive Proof.

Chlorophyll a Analyzer is connected directly via RS485 communication interface, providing simple, reliable, cost-saving process data with remote monitoring, calibration, configuration and diagnostic capabilities. Housing in a robust IP68 proof enclosure, 1500 N tensile strength Kevlar reinforced cable, up to 1.2 km digital data transmission, the transmitter is ideally used in reservoir, river, drinking water, wastewater industry.

Advantages

- All-in-One Compact Housing, Built-in Transmitter and Sensors
- Robust IP68 Water Submersible Protection, Directly Installed in the Field, No Cabinet Required
- Plug & Play, On-line Realtime Measurement
- Ultra Low Power Consumption, Ideal for Outdoor Applications
- 1500 N Tensile Strength Kevlar Reinforced Cable
- Surge Protection for Power and RS485 Communication
- RS485 Digital Communication, Minimize Cabling and Engineering Cost
- Standard Modbus RTU Protocol, Direct Connected with PLC, HMI
- Innovative Nano Coating to Remain Window Clean
- Auto Cleaning Wiper, Less Maintenance
- Onboard Memory Allowing Users Easily Calibrate and Configure Sensor at Lab and Distribute to Various Fields and Sites
- AQCFG Software Tool for Data Monitoring, Calibration, Configuration and Diagnosis
- IECEx/ATEX Ex ia IIB T5 Ga Explosive Proof Certification

Applications

Surface water

Measurement Method

It is based on fluorescent optical technology. A fluorometer generates the wavelength of light required to excite the analyte of interest, it selectively transmits the wavelength of light emitted, then it measures the intensity of the emitted light. The emitted light is proportional to the concentration of the analyte being measured.

Installation

Submersible



Specifications

General	
Output Signal	RS485 (Modbus RTU protocol), 19,200 bps, 8 data bits, no parity, 1 stop bit; 4~20 mA (optional)
Data Resolution	16 bits (0.001% FS)
Surge Protection	4000 VDC
Power	5~12 VDC, 300 mA
Protection	Polarity, Overload, Short circuit
Safety	CE, FCC
Chlorophyll a	
Measurement Method	Fluorescence
Measurement Range	0~500 µg/L
Accuracy	Linearity R ² > 0.999 for serial dilution of Rhodamine WT solution equivalents
Resolution	0.01 µg/L
Repeatability	±1% FS
Light Source	LED 460 nm
Operating Pressure	Max. 10 Kg/cm ²
Operating Temperature	0~50 °C
Process Flow Rate	Max. 3 m/s
Response Time	3 secs
Protection	IP68
Connection	3/4"-14 PT; 5-pin M12 plug
Housing	SS316L; Titanium
Dimensions	ø 34 X 226 mm
Weight	analyzer: approx. 500 g (SS316L) ; 400 g (Titanium) ; Cable: 80 g/m

Ordering Codes

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SMR35 - 1 - 0 - 005 - 3 - □ - 1 - □ - □

Sensor

None

Cable Length (m)

5

Cable Type

PUR

Housing

SS316L

Titanium

Wiper

Built-in

Wire Connection

Bare Wire

M12 Connector

Explosive Proof

None

Certificated

0

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0

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