

Multi-Wavelength Water Sensor



WQS-M-Lxx Series

RoHS

CE

Overview

The multi-wavelength spectrum water quality sensor, based on the principle of ultraviolet absorption spectrum, can measure organic matter and nitrate nitrogen in water, and has turbidity compensation function effectively improving the measurement accuracy of actual water samples. It is suitable for monitoring domestic sewage, industrial wastewater, watershed, etc. Compared with conventional chemical detection, it has the characteristics of high reliability, zero pollution and zero delay, and can realize real-time online monitoring of organic pollutants.

It can be matched with our DL series data collector and WQS-Server cloud service to realize remote real-time monitoring of data and remote operation and maintenance of equipment.



Main Features

- 4 wavelengths measured, obtaining more spectral information of water samples
- Optical in-situ measurement, no chemical reagent consumption, environmentally friendly
- Quick measurement, the shortest measurement cycle is 1 second
- The maintenance-free period is long, and the sensor has its own cleaning brush
- RS485 communication mode, can quickly connect to the meter
- IP68 protection grade, can be used in harsh environment
- Low power consumption, can be powered by battery, convenient for equipment deployment



Self Cleaning Brush

Specifications

Principle	UV-Vis spectral absorption	Power	<2 W
Dimension	φ29x 245 mm	Material	AISI 316L
Power requirements	DC+12 V ~ +24 V	Cleaning method	Cleaning brush
Measurement period	10 to 65535 seconds	IP rating	IP68
Operating temperature	0 to 50°C	Sample flow rate	<3 m/s
Pressure	6 bar	Communication	RS485(Modbus RTU), Bluetooth

optical

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Multi-Wavelength Spectrum Water Quality Sensor

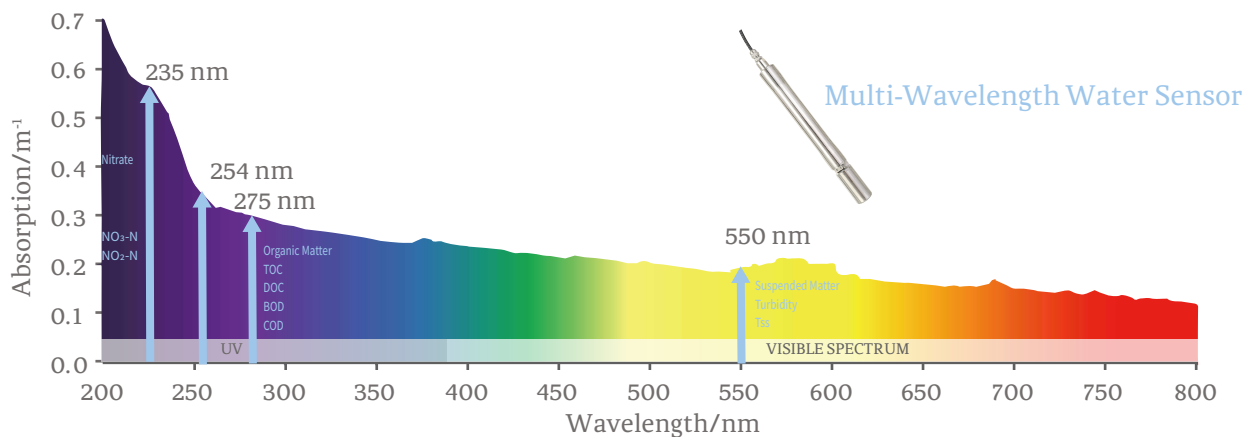


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Parameter information

Parameter	Model No.	Range	Resolution	Accuracy
COD	WQS-M-L10	0-500mg/L	0.01mg/L	±5% or ±5mg/L
TUR	WQS-M-L10	0-500NTU	0.01NTU	±5% or ±5NTU
NO ₃ -N	WQS-M-L10	0-50mg/L	0.01mg/L	±5% or ±1mg/L
TOC	WQS-M-L10	0-200mg/L	0.01mg/L	±5% or ±2mg/L
TSS	WQS-M-L10	0-500 mg/L	1 mg/L	±10% or ± 10 mg/L
Temperature	WQS-M-L10	0-60°C	0.0625°C	±1°C

Optical Detection Principle



Application



Wastewater treatment plant effluent monitoring



Watershed, surface water, groundwater monitoring



Urban domestic sewage monitoring



Industrial water monitoring