

Dual-Wavelength Water Sensor

WQS-D Series



RoHS

CE

Overview

The dual-wavelength spectrum sensor, based on the principle of ultraviolet absorption spectroscopy, can measure organic components in water; and has a turbidity compensation function effectively improving the accuracy of actual water sample measurement. It is suitable for the monitoring of domestic sewage, industrial waste water, watershed, etc. Compared with conventional chemical detection, it has the characteristics of high reliability, zero pollution and zero delay, and realizes 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, operation and maintenance of equipment.



Main Features

- Optical in-situ measurement, no actual pollution, environmentally friendly
- Quick measurement, the shortest measurement cycle is 1 second
- Long maintenance-free cycle, with its own cleaning brush for cleaning
- RS485 communication mode, can quickly connect the meter head, and control the sensor
- IP68 protection grade, can be used in harsh environments
- Low power consumption, can be powered by battery, convenient for equipment deployment



Self Cleaning Brush

Specifications

Principle	UV-Vis spectral absorption	Power	<6 W
Dimension	φ45x325 mm	Material	AISI 316L
Power requirements	DC+12 V ~ +24 V	Cleaning method	Cleaning brush
Measurement period	1 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)

optical

Googol Technology (Overseas) Limited
Unit 1009, 10/F, C-Bons Intl. Center,
108 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong
Tel: +852-2358-1033 Fax: +852-2719-8399
Web: <http://googoltech.com>
Email: info@googoltech.com

Chongqing Googol Changjiang Research Institute Co., Ltd.
Building 1, Electronic No. 5 Community,
Fenghuang Lake Industrial Park, Yongchuan District, Chongqing, China
Tel: +86-023-4982-3883
Web: <http://www.googolcjit.cn>
Email: googolcjit@googolcjit.com

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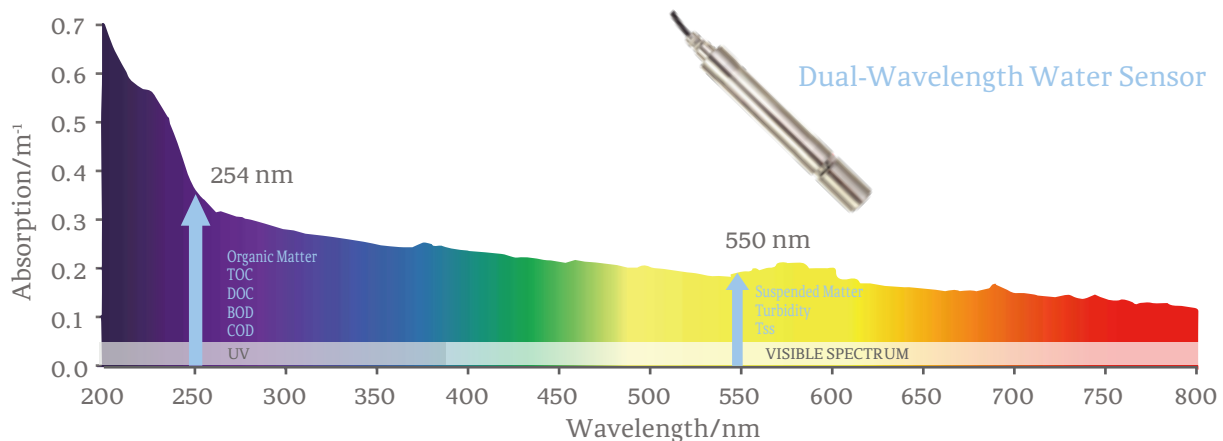
WQS-D Series



Parameter information

Parameter	Model No.	Range	Resolution	Accuracy
COD	WQS-D-L10-P05	0-500 mg/L	0.01 mg/L	±2.5% or±2.5 mg/L
	WQS-D-L05-P05	0-1000 mg/L	0.01 mg/L	±2.5% or±2.5 mg/L
TOC	WQS-D-L10-P05	0-200 mg/L	0.01 mg/L	±2.5% or±2.5 mg/L
	WQS-D-L05-P05	0-400 mg/L	0.01 mg/L	±2.5% or±2.5 mg/L
BOD	WQS-D-L10	0-300 mg/L	0.01 mg/L	±2.5% or ±2.5 mg/L
	WQS-D-L05	0-600 mg/L	0.01 mg/L	±2.5% or ±2.5 mg/L
TUR	WQS-D-L10-P05	0-500 NTU	0.01 NTU	±2.5% or±5 NTU
	WQS-D-L05-P05	0-1000 NTU	0.01 NTU	±2.5% or±10 NTU
TSS	WQS-D-L10	0-500 mg/L	1 mg/L	±5% or ±5 mg/L
	WQS-D-L05	0-1000 mg/L	1 mg/L	±5% or ±10 mg/L
Temperature	WQS-D-Lxx-P05	0-60 °C	0.0625 °C	±1 °C

Optical Detection Principle



Application



Sewage treatment plant outlet monitoring



Surface water, rainwater, ground-water monitoring



Urban domestic sewage monitoring



River, watershed monitoring

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