

Turbidity Water Quality Sensor

WQS-T-SC4 Series



RoHS

CE

Overview

The turbidity water quality sensor, with the principle of 90° scattered and 180° transmission light measurement, can measure turbidity and suspended solids. It is mainly used in the field of surface water, domestic wastewater, and industrial wastewater. The turbidity sensor is equipped with an automatic optical window cleaning function. In addition, with the DL-W-S series meter transmitter and WQS-Server (WQS cloud service), users can realize both on-site and remote data viewing.



Main Features

- Optical in-situ measurement
- Quick measurement, the shortest measurement cycle is 1 seconds
- 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	Transmission and 90° scattering	Installation	Submerged, Flow-through
Dimension	φ30×267 mm	Material	AISI 316L
Power requirements	DC+12V ~ +24V	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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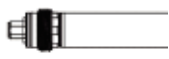



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Parameter information

Parameter	Model No.	Range	Resolution	Accuracy
TUR	WQS-T-SC4	0-1000 NTU/FNU	0.001 NTU	±5% or ±0.015 NTU
TSS	WQS-T-SC4	0-1000 mg/L	1 mg/L	±5% or ±1 mg/L

Model	Description	IP rating	Application
WQS-SC4-S01	5 pole aviation plug with waterproof connection thread	IP65	
WQS-SC4-S11	Cable extending directly with waterproof connection thread	IP68	
WQS-SC4-P01	5 pole aviation plug	IP65	
WQS-SC4-P11	Cable extending directly	IP68	

Application



Influent and effluent monitoring of sewage treatment plant



Watershed, surface water, groundwater monitoring



Urban domestic sewage monitoring



Industrial water monitoring



Water pipe network monitoring



Raw water monitoring of water works