

Turbidity/Suspended Solids Water Sensor



WQS-T-SC1 Series

RoHS

CE

Overview

The turbidity/suspended solids (sludge concentration) sensor is a water quality sensor that measures turbidity and suspended solids based on 90° and backscattered light measurement principles. Mainly used in the fields of surface water, domestic sewage, and industrial sewage. The turbidity sensor is equipped with an automatic optical window cleaning function, which greatly reduces the amount of manual maintenance and ensures the normal operation of the sensor even in harsh environments. In addition, with the DL-W-S series meter head transmitter and WQS-Server (WQS cloud service), users can realize on-site and remote data viewing.



Main Features

- Optical in-situ measurement
- Quick measurement, the shortest measurement cycle is 3 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

Specifications

Principle	Scattering	Power	<8 W
Dimension	φ55x212 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)

optical

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Parameter information

Parameter	Model No.	Range	Resolution	Accuracy
TUR	WQS-T-SC1	0-4000 NTU/FNU	0.001 NTU	±5% or ±0.015 NTU
TSS	WQS-T-SC1	0-10 g/L	1 mg/L	±5% or ±1 mg/L

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

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