

Multi-parameter Water Quality Monitoring System

iSpark-T Series



Overview

The iSpark series water quality monitoring system is a multi-functional water quality monitoring system integrating control, sensing, wireless communication, and cloud platform. The iSpark series water quality monitoring system can monitor COD, TOC, turbidity, Free Chlorine/total chlorine (Constant voltage method, membrane covered method, DPD method), pH, conductivity, water temperature in real time with optional parameters. Through this system, water quality information can be collected and detected on-site, transmitted to the monitoring system in real time, and interacted with the cloud platform through big data statistics, analysis, and automatic data verification. It can realize closed-loop control of everything in the pump room, laying a solid foundation for the construction of an unattended smart water supply platform.



Main Features

- Quick measurements with a minimum cycle time of 10 seconds
- Self-cleaning module for long term maintenance-free operation
- Multi-parameter integration, can measure turbidity, free chlorine / total chlorine, pH, COD, TOC, conductivity, water temperature
- The system supports 4G wireless transmission, through which users can transfer data to the cloud platform.
- Users can set the threshold value of water quality parameters; the water quality exceeds the set threshold value will trigger the system alarm.

Specifications

Display	7-inch LCD touch screen	Pressure	1 bar
Dimension	400×300×180 mm	Installation	Wall-mounted
Power requirement	100-230 VAC, 50/60Hz	Sample flow rate	200-500 mL/min
Operating temperature	2 to 45°C	Communication	RS485(Modbus RTU), WiFi, 4G

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Parameter information

Parameter	Model No.	Range	Resolution	Accuracy
TUR	WQS-M-SCx	0-100 NTU/FNU	0.001 NTU	±2% or ±0.015 NTU
COD	WQS-M-SCx	0-10 g/L	0.001 mg/L	±2% F.S.
TOC	WQS-M-SCx	0-50 mg/L	0.001 mg/L	±2% F.S.
Free Chlorine	WQS-Cl-C/F	0-2 mg/L, 0-5 mg/L, 0-20 mg/L	0.001 mg/L	±3% F.S.
Free Chlorine	DPD method	0-2 mg/L, 0-5 mg/L, 0-10 mg/L	0.001mg/L	±5% or ±0.05 mg/L
Total Chlorine	WQS-Cl-T	0-2 mg/L, 0-5 mg/L, 0-20 mg/L	0.001 mg/L	±3% F.S.
Total Chlorine	DPD method	0-2 mg/L, 0-5 mg/L, 0-10 mg/L	0.001mg/L	±5% or ±0.05 mg/L
Conductivity	WQS-EC	0.001-200 000 µS/cm	Minimum 0.001 µS/cm	±5%
pH	WQS-pH	1-14 pH	0.01 pH	±0.1 pH
Temperature	WQS-pH	0-50 °C	0.1 °C	±1 °C

Application



Drinking water plant



Secondary water supply



Municipal Pipe Network,
Waterwork

Integration devices