ONLINE WATER QUALITY MONITOR / DATA SHEET

SW41-01

Multi-Parameter Online Water Quality Monitor

Digital-electrode water-quality monitoring platform for multi-parameter detection, remote monitoring and real-time control.

Overview

SW41-01 is a multi-parameter online water-quality monitor based on sensor and Internet of Things technology. It uses fully digital electrodes as detection components and a self-designed flow cell with stable performance.

The source material describes high detection sensitivity and applications in water plants, secondary water-supply pumping stations, health and disease control monitoring, and industrial process water.

0.00–14.00 pH	0–60 °C	4 channels	1024 × 600
PH RANGE	TEMPERATURE	4–20 mA OUTPUT	MONITOR RESOLUTION

FEATURES & APPLICATIONS

Key Features & Application Areas

Key Features

- Intelligent operation.
- Intelligent control.
- Remote monitoring.
- Factory restore.
- Watchdog function.
- Strong real-time performance.
- Backlight function.
- After-sales service.
- Customized service.

Application Areas

- Water plants.
- Tap-water secondary pumping stations.
- Health and disease control monitoring.
- Industrial process water.

MEASUREMENT PRINCIPLE

Digital-Electrode Monitoring

The monitor is based on sensor and Internet of Things technology. Fully digital electrodes act as the detection components, while a self-designed flow cell supports stable performance. This description follows the source material without adding an unprovided measurement algorithm.

SYSTEM DATA

Technical Specifications

Parameter	Specification
Detection Components	Fully digital electrodes

Parameter	Specification
Residual Chlorine / Chlorine Dioxide (Constant-Pressure Method)	Measuring range: 0.00–5.00 mg/L; resolution: 0.01 mg/L; accuracy: ±0.05 mg/L or 5%
Low-Range Turbidity (Laser Method)	Measuring range: 0–20 NTU; resolution: 0.001 NTU; accuracy: ±0.02 NTU or 2%
Conductivity (Optional)	Measuring range: 0–2000 μS/cm; other ranges available; resolution: 1 μS/cm; accuracy: ±2% F.S.
pH	Measuring range: 0.00–14.00 pH; resolution: 0.01 pH; accuracy: ±0.1 pH
TDS (Optional)	Measuring range: 0–1500 mg/L; resolution: 1 mg/L; accuracy: ±1.5% F.S.
Temperature	Measuring range: 0–60 °C; resolution: 0.1 °C; accuracy: ±0.3 °C
4–20 mA Current Output (Optional)	4 channels (optional)
Working Conditions	Ambient temperature: 5–40 °C; relative humidity: <90% RH
AC Power Supply	186–240 V AC, 50/60 Hz
Relay Output (Optional)	4-way load, AC 220 V, 10 A
Monitor Resolution	1024 × 600
Dimensions	470 × 250 × 675 mm

Note: Choose one of the conductivity and TDS electrodes; they can be switched. As technology continues to be updated, technical parameters may change.

OUTPUT & CONTROL

Remote Monitoring and Control

The source material identifies optional 4–20 mA current output, optional relay output, remote monitoring, intelligent control and watchdog functions. Specific channel and electrode configurations are subject to the selected supply configuration.

CONTACT / SUPPORT

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