



科泽智慧环境
Keze Intelligence Environment

K101S series

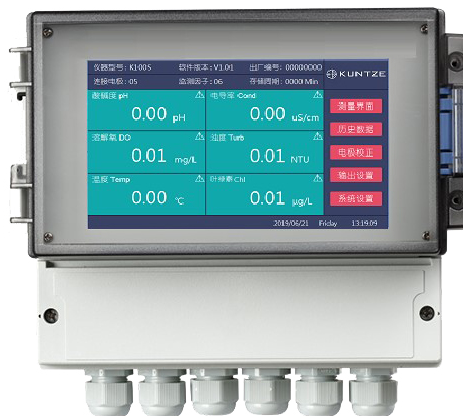


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Product introduction

Multi parameters Water Quality Analyzer designed for measuring pH, temperature, dissolved oxygen, conductivity, turbidity and other important parameters. This integrated system combines multiple measurement capabilities into a single unit, ensuring enhanced efficiency and ease of use for all operators. It features direct connectivity with smart electrodes and multiparameter electrodes, allowing for seamless integration. The K100S provides real-time display of measurement values and electrode status, facilitating quick and accurate assessments. It is suitable for a variety of application scenarios, including surface water, municipal wastewater, industrial effluent, drinking water, and aquaculture etc, making it a reliable choice for comprehensive water quality monitoring.



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Product Features

1. The analyzer uses a touch screen with a large viewing angle.
2. The analyzer supports accessing with password to ensure the security
3. The analyzer adapts the standard MODBUS communication Protocol
4. The analyzer could measure at most 6 different parameters simultaneously
5. The analyzer supports RTU transmission mode for connecting digital sensors
6. The analyzer uses more than two sets of relays that can be programmed for either activate alarms or control purpose
7. The analyzer features an electrically isolated MODBUS RTU interface
8. The analyzer features a 0/4-20 mA analog output with electrical isolation
9. The analyzer is capable of storing data for over 90 days.
10. The analyzer features built-in temperature compensation to ensure accurate measurements.

Conventinal Five Parameters

| Performance | Indicator Requirements | | | | |
|--------------------------------|------------------------|------------------------|------------------------|-------------------------------|---------------------------|
| | Dissolved oxygen | pH | Conductivity | Turbidity | Temperature |
| Measurement Principle | Fluorescence method | Glass electrode method | Electrode method | IR90° Light scattering method | PT1000 |
| Measurement Range | 0 ~ 20mg/L | 0~14 | 0 ~ 200,000 μ S/cm | 0 ~ 4000 NTU | 0~55 °C |
| Repeatability Error | ± 0.3 mg/L | ± 0.1 pH | $\pm 1\%$ | $\pm 3\%$ | $\pm 0.5^{\circ}\text{C}$ |
| Zero Drift | < 0.1 mg/L | N/A | $\pm 1\%$ | $\pm 3\%$ | N/A |
| Range Drift | ± 0.3 mg/L | N/A | $\pm 1\%$ | $\pm 5\%$ | N/A |
| Drift | N/A | ± 0.1 pH | N/A | N/A | N/A |
| Response Time (s) | 45 | 15 | 15 | N/A | N/A |
| Temperature Compensation Error | ± 0.3 mg/L | ± 0.1 pH | $\pm 1\%$ | N/A | N/A |
| Linearity Error | N/A | N/A | N/A | $\pm 5\%$ | N/A |



Optional Parameters

| Performance | Indicator Requirements | | | | |
|-----------------------|---------------------------|---|--------------------------------|---------------------------------|---------------------------------|
| | ORP | COD | Ammonia nitrogen | Chlorophyll | Blue-green algae |
| Measurement Principle | Platinum electrode method | UV254nm Law Turbidity compensation by 546nm transmission method | Ion selective electrode method | Fluorescence method 460nm/680nm | Fluorescence method 590nm/650nm |
| Accuracy | ± 1 mV | ±10% | ±10% | ±5% | ±5% |
| Resolution | 0.1 | 0.01 | 0.01 | 0.01 | 0.01 |
| Response Time (s) | 15 | NC | 15 | 30 | 30 |

