科泽智慧环境
Keze Intelligence Environment

K301S series

CODmn

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Shanghai KeZe Intelligence Environment Sci-Tech Co. Ltd

Product introduction

The KEZE K301S is an online water quality analyzer designed to measure the Permanganate Index. Developed independently with proprietary technology, it offers reliable and accurate monitoring for water quality.

Online CODMn Analyzer features high precision, stability, and expandability. Suitable for surface water, drinking water wastewater, and seawater, it utilizes an alkaline method when chloride ion levels exceed 300 mg/L.

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Product Features

Stability

- ❖ A high-precision sample pump is used for sample injection, enabling accurate measurement.
- ❖ Verification methods include automatic zero calibration with standard solution, span calibration with standard solution, and remote standard sample verification, while quality control features automatic spiking recovery determination.

Simplicity

- ❖ The analyzer features a touchscreen interface with LCD display for easy operation.
- ❖ The analyzer's system commands are user-friendly, allowing for convenient operation.

High Adaptability

- ❖ The analyzer is compatible with high turbidity and high salinity water, supporting both acidic and alkaline permanganate methods.
- ❖ The adaptive technology features automatic intelligent range adjustment, allowing it to smartly adapt to various water types.

Low Maintenance

- ❖ The analyzer requires minimal reagent usage while maintaining high device reliability.
- ❖ The analyzer's maintenance interval can be extended to one month.

Product Attributes

Parameter	Direct measurement of CODMn
Measurement Method	Acid potassium permanganate titration
Range	（0.000～10.000/20.000/50.000/100.000）mg/L
Range Selection	Automatic or Manual Range Selection
Multi-Stream	Up to two 4-20 mA signals
Repeatability	±3% of reading or ±0.2 mg/L P, whichever is greater
Stability	±2%
Cycle Time	From 40 minutes, depending on range and application
Communication	Modbus RTU, Modbus TCP/IP & Profibus (when the Profibus option is selected, the digital output signals are sent through the Profibus converter with its specific communication protocol).
Enclosure Rating	IP65
Sample Inlet Temperature	2 - 60 °C
Ambient Temperature	5 - 45 °C
Humidity	5 - 85 % (non-condensing)
Data Storage	Previous 9999 analysis data on screen in the microcontroller memory and storage of data archive for the lifetime of the analyzer in the SD/MMC card.
Display	Maximum pixels 800*600 backlit LCD with LED backlight
Power Requirements (Voltage)	AC（220±22）V(按照当地要求填写)
Power Requirements(Hz)	50/60 Hz
Service Interval	1 months service intervals
Dimensions(H x W x D)	1371 mm×470mm×372 mm
Weight	60 kg