



科泽智慧环境
Keze Intelligence Environment

K301S series

TN



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Product introduction

KEZE K301S series of total nitrogen analyzer is an online water quality analyzer independently developed by KEZE with independent intellectual property rights.

K301S total nitrogen analyzer has multiple advantages such as high scalability, precision and stability. It is a highly intelligent instrument that meets national environmental protection standards and online instrument standards.



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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 TN
Measurement Method	Direct photometric analysis of Nitrate after oxidation (0.000～
Range	4.000/10.000/20.000/40.000/100.000/400.000) 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 30 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

