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Automatic Total Nitrogen Analyzer
YKHHT100

Product Overview:

Traditional total nitrogen detection and analysis is not only time-consuming, but also complicated and tedious, and requires high skills from operators. Water sample detection and recording can hardly meet the needs of large-volume sample analysis and testing. The fully automatic total nitrogen water quality analyzer is used for the automatic digestion and determination of total nitrogen, which automates the tedious and complex total nitrogen analysis, unattended analysis, batch processing of water samples, freeing the hands of testers, and providing accurate total nitrogen water quality analysis, which meets the requirements of the national standard alkaline potassium persulfate digestion ultraviolet spectrophotometry method.

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Instrument features:

1. The analysis system consists of four units, namely, automatic three-dimensional sampling unit, automatic digestion unit, high-precision spectrophotometer unit, and automatic control display unit. It has fault detection alarm function and memory function. After power failure, restarting the instrument can determine the unfinished analysis status and continue to complete the analysis, increasing the safety of system operation.

2. Automatic analysis, simple process, input sample information into the control unit, the automatic sampler automatically injects samples into the digestion and analysis unit, with sample addition function, samples can be added at any time, each measurement interval, the pipeline can be automatically cleaned, ensuring the accuracy of the measurement results and the pollution-free sampling.

3. The instrument is equipped with a digester and cooling system. The analyst only needs to accurately extract the water sample and set the information of the sample to be tested on the instrument interface to avoid editing the sample information individually, improve work efficiency, and automatically measure the remaining steps, automatically digest, automatically cool, automatically discharge waste, and automatically generate and save reports. The closed structure design and automatic waste liquid discharge program avoid pollution to the environment during the test.

4. No sample preparation process is required and prefabricated reagents are used, which can greatly shorten the preparation time of reagents.

5. The instrument can digest 16 samples at the same time and has a fast water circulation cooling system, which improves the efficiency of analysis and testing. The analysis system adopts a fully automatic high-precision spectrophotometer with high wavelength accuracy and good stability. Corrosion-resistant and long-life design: It can repeatedly transfer 98% concentrated sulfuric acid and various corrosive organic and inorganic liquids such as strong alkali and organic solvents for a long time (corrosion-resistant DuPont polytetrafluoroethylene pipes, patented technology for remote liquid transfer, greatly extending the life of the precision injection pump).

6. The measurement range is wide and the anti-interference ability is strong. The instrument has the function of automatic sample dilution (the dilution method needs to be confirmed) and automatic calibration function, which has higher reliability and accuracy.

7. IoT cloud data upload function, Bluetooth transmission, USB interface, wifi module, support for cloud storage, WeChat applet, greatly facilitate the customer's application scenarios.

Instrument parameters:

Screen size: 7-inch color capacitive touch screen

Measurement items: Total nitrogen

Measurement range: 0-50mg/L segmented test

Measurement time: 40 minutes/16

Detection limit: 0.05mg/L

Wavelength accuracy: ±0.1nm (at 656.1nm), ±0.3nm full area

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Repeatability: ≤0.1nm

Accuracy: 0.2%T (0-100%T), ±0.002A (0-0.5A), ±0.004A (0.5-1A)

Repeatability: ≤0.15%T (0-100%T), ±0.001A (0-0.5A), ±0.002A (0.5-1A)

Stray light: ≤0.03%T@220nm, 360nm

Stability: ±0.001A/h@500nm

Main Interface

Menu

Sample injection configuration

Sample analysis

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