



Recorder



Flow



Pressure



Temp



Analyzer



Level

Datasheet

Water Quality On-line Total Nitrogen Analyzer

Supmea[®]

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Datasheet**Water Quality On-line Total Nitrogen Analyzer**

Water Quality On-line Total Nitrogen Analyzer is an instrument used for real-time monitoring of total nitrogen concentration in water bodies. Mainly originating from agriculture, industry, and urban domestic sewage. This analyzer can achieve rapid and accurate measurement of total nitrogen concentration in water bodies. It is also suitable for online monitoring of total nitrogen concentration in waterworks, surface water, groundwater, coastal seawater, water used in various industrial production processes, aquaculture, and other industries.

Applications

- Wastewater
- Tap water
- Aquaculture
- Groundwater quality
- Medical Institutions
- River water quality monitoring
- Laboratory water quality testing
- Coastal seawater

**Features**

- The ModBus serial port can be customized,;
- Multi platform and multi protocol transmission;
- Real time data display, query of historical hourly mean and daily mean data;
- Built in rich instrument protocols
- Set upper and lower alarm limits;
- Remote upgrade, USB drive upgrade, and built-in fault tolerance mechanism;
- Supporting webpage uploading and external USB flashdrives;
- Support manual and automatic supplementary transmission, dual data protection;

Water Quality On-line Total Nitrogen Analyzer

- Support platform reverse control samplers and online monitoring equipment;

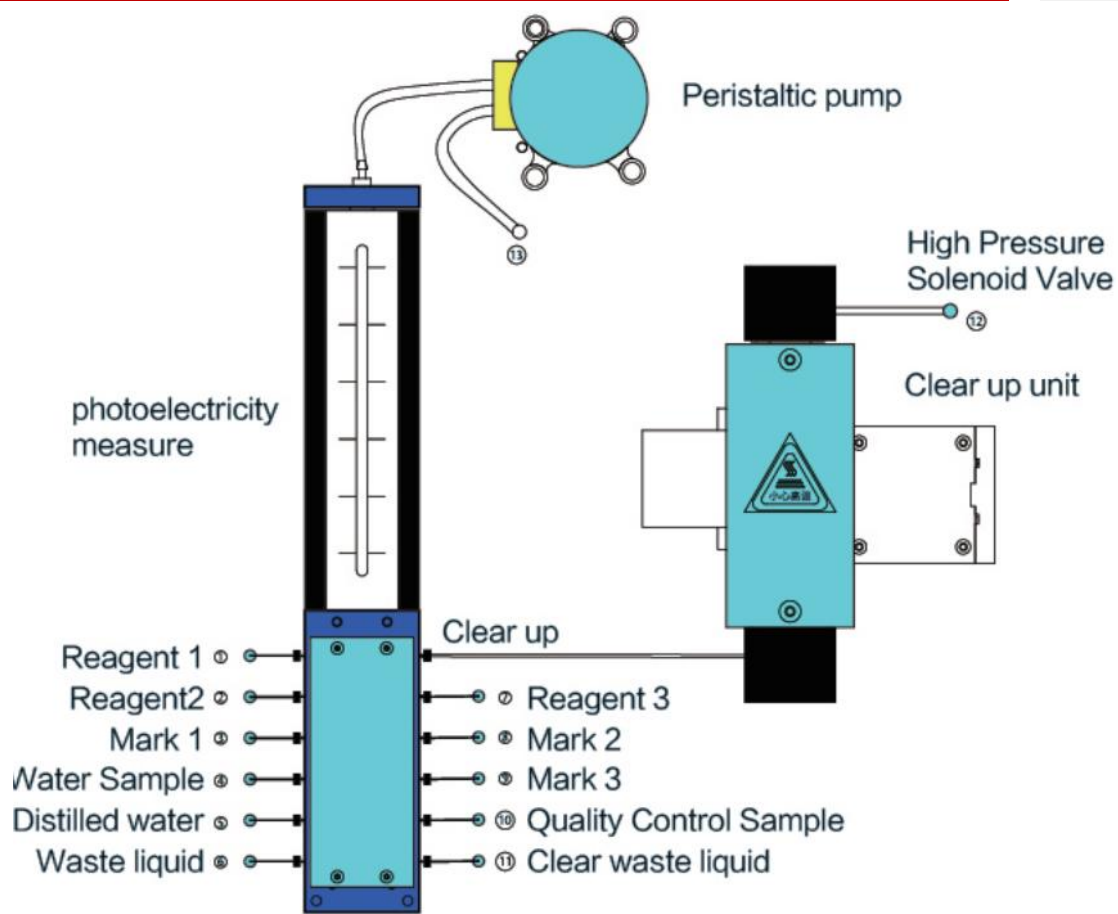
Principle

Basic principle (alkaline persulfate ultraviolet spectrophotometry)

Under the condition of 125℃,the alkaline potassium persulfate solution converts the nitrogen element of the nitrogen containing compound in the sample into nitrate,and its absorbance is measured at the wavelength of 220 nm and 275 nm and converted into the corresponding concentration value.

Parameters	
Measuring range	0~300mg/L(Other ranges can be customized)
Indication error	≤±5.0%
Lower limit of measurement	≤0.2mg/L
Repeatability	≤±5.0%
24h high concentration drift	≤±5.0%
Analog output	4-20 mA
Digital communication	RS232/RS485
Environmental temperature	5℃-40℃
Environmental humidity	≤90%
Overall dimensions	Length 510mm×Width 410mm×Height 1305mm
Weight	≤60 kg
Power supply	AC(220±10%)V,(50±10%)Hz
Other functions	<ul style="list-style-type: none"> ■ Abnormal alarm,no data loss due to power outage; ■ Automatic alarm when no water sample or reagent is collected; ■ Touch screen display and command input;Abnormal reset,after power outage,the instrument automatically discharges residual liquid and restores its working state; ■ Waste liquid separation; ■ Standard sample verification; ■ Automatic calibration; Automatic range switching;

Work Flow Diagram



Water quality on-line total nitrogen analyzer work flow diagram