

**WATN 2001** is an accurate and reliable total nitrogen analyzer.

Under temperatures of 60°C and above, potassium persulfate is completely decomposed into potassium bisulfate and oxygen. This followed by the reaction at 120°C which causes the nitrogen compounds and all organic matter in the water sample to be oxidized or decompose. This final state allows the absorbance of water samples to be measured by UV spectrophotometry at the a fixed range. Allowing the total nitrogen content to be calculated according to the absorbance



## Applications

- Sewage treatment plants
- Industrial production of water
- Wastewater treatment process
- Drinking water industry
- Process monitoring in industrial facilities

## Features

### High reliability, low maintenance

- Core components are imported, high reliability, long lifetime, suitable for long time online monitoring.
- Using photoelectric measurement method and special measuring algorithm
- All parts contact with liquid will be particularly tested to ensure a long service life.
- Specially designed flow path to prevent blocking.

### Accurate measurement, wide application scope

- Photoelectric measurement method, accurate sampling, low sample injection error.
- Automatic chromaticity and turbidity compensation algorithm, giving full consideration to the situation of actual water samples, real and reliable monitoring results
- Unique hybrid technology of bubble agitation ensures thorough mixing of samples and reagents.

### Safe use, efficient analysis

- When a reagent leaks, automatically alarm will ring to alert user and remind for maintenance to be done.
- Equipment has self-diagnosis function, if there is a defect, it will automatically alert alarms and display on screen.

## Technical Specification

Specification	
Method	Alkaline potassium persulfate digestion-UV spectrophotometry
Measure range	0.05-100-200mg/l, adjustable
Accuracy	±5
Repeatability	±3%
Maintenance	>2hr/month
Reagent	1 set reagents: 250 measurements (can be customized)
Interface	Analog output: 1 x 4-20mA (expandable to 2) max load 500Ω Analog input: 1 x 4-20mA (expandable to 2) 0-5V input Relay Output: 4 (configuration is flexible) RS485/RS232/USB (optional)
Dimensions	1400 (h) x 405 (w) x 500 (d) mm
Ambient conditions	Temperature: 5~40°C
Power Supply	AC230V, 50 Hz
Power Consumption	200 W (not including pump)
Weight	70 kg

