

WANI2001 is an analyzer specific for monitoring nickel in water samples.

The analyzer uses the spectrophotometry with diacetyl oxime colorimetric reagent. The spectral properties of diacetyl oxime and its complexes with nickel ions make it an excellent reagent for the detection of nickel in aqueous solutions.

Under acidic conditions, all nickel metal ions are oxidized to form Ni(IV) which in reaction with diacetyl oxime produces a orange yellow soluble complex. Using UV-VIS spectrophotometer the concentration of the orange-yellow colour is proportional to the concentration of nickel present in the water body.



Applications

- Electroplating process
- Metal processing
- Chemical industries
- Ceramic and glass production

Features

High reliability, low maintenance

- Core components are imported, high reliability, long lifetime, suitable for long time online monitoring
- All part 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 give full consideration to the situation of actual water samples, real and reliable monitoring results.
- Unique hybrid technology or bubbles agitation ensures thorough mixing of samples and reagents

Safe use, efficient analysis

- When a reagent leaks automatic there will be an alarm and reminders for maintenance.
- Equipment has self-diagnosis function, if there is any defects and alarm will be alerted and display on screen.

Technical Specification

Specification	
Method	Diacetyl oxime Spectrophotometry Method
Measure range	0~2/10mg/l (customizable)
Accuracy	±10%
Repeatability	±5%
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	75 kg

