

WACR2001 is an analyzer specific for monitoring hexavalent chromium.

The analyzer uses the diphenylcarbazide spectrophotometric method. Diphenylcarbazide reacts in acid medium with chromium(VI) ions to give a violet solution which is the basis of this sensitive method.

The production of an intense pink/violet-dye, which has absorption maximum at 540 nm is then analyzed using the UV-VIS spectrophotometer. Data comparing with absorbance with a calibration curve gives the concentration of hexavalent chromium present in the water sample.



Applications

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

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	Diphenylcarbazide spectrophotometric method
Measure range	0~1~5mg/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

