

CS6800D Spectrometric Method (NO₃) Nitrate Nitrogen Sensor



Principle

NO₃ absorbs ultraviolet light at 210 nm. When the probe works, the water sample flows through the slit. When the light emitted by the light source in the probe passes through the slit, part of the light is absorbed by the sample flowing in the slit. The other light passes through the sample and reaches the detector on the other side of the probe to calculate the nitrate concentration.

Features

1. The probe can be directly immersed in water sample without sampling and pretreatment.
2. No chemical reagent is needed and no secondary pollution occurs.
3. The response time is short and continuous measurement can be realized.
4. Automatic cleaning function reduces the amount of maintenance.
5. Positive and Negative Reverse Connection Protection function
6. Protection of Misconnected Power Supply at Sensor RS485 A/B Terminal

Application

Drinking water/surface water/industrial production water/sewage treatment and other fields, continuous monitoring of nitrate concentration in dissolved water is particularly suitable for monitoring sewage aeration tank and controlling denitrification process.

Specification

Measuring range	0.1~100.0mg/L (1mm) 0.1~50.0mg/L (2mm) 0.1~25.0mg/L (5mm)
Resolution	± 5%
Minimum Measuring	0.1 mg/L
Accuracy	0.1 mg/L
Calibration	Calibration of standard liquid
Power supply	12VDC
Communication	MODBUS RS485
Operating temperature	0-45°C
Dimensions	Sensor:Diameter 69mm*Length 380mm
Weight	Sensor:3.2KG
Waterproof rating	Sensor:IP68/NEMA6P;
Cable length	Standard 10 meters cable, can be extended