PUVNO3-900 Spectrometer Nitrate Online Analyzer

Measurement Principle

NO3 absorbs at 210 nm UV light. When the Spectrometer NO3 probe is working, the water sample flows through the slit. When the light from the light source in the probe passes through the slit, part of the light is absorbed by the sample flowing in the slit, and the other light passes through the sample and reaches the other side of the probe. Calculate the concentration of nitrate.



Features

- Probe direct immersion measurement without sampling and pre-processing.
- No chemical reagents, no secondary pollution.
- Short response time enables continuous measurement.
- The sensor has an automatic cleaning function that reduces maintenance.
- Sensor power supply positive and negative reverse connection protection
- Sensor RS485 A/B terminal is connected to the power supply protection
- Wireless data transmission module for optional.
- Spectrometer NO3 Probe direct immersion measurement without sampling and pre-processing.

Applications

- Drinking water / surface water / industrial production process water / sewage treatment, etc..
- Continuously monitor the concentration of nitrate dissolved in water, especially for monitoring sewage aeration tanks, controlling denitrification process.

Technical Specifications

Measuring Range	0.1-100.0mg/L(1mm optical path),0.1-50mg/l (2mm optical path)
Accuracy	±5%
Repeatability	± 2%
Resolution	0.01 mg/L
Pressure range	≤0.4Mpa
Sensor material	Body：SUS316L (fresh water)，Titanium alloy (marine)；Cable：PUR
Power Supply	AC：85-500VAC; DC：9-36VDC
Output	3-way 4-20mA
Relay	Three-way relays, programmed response parameter and response value
Communication protocol	MODBUS　RS485
Storage temperature	-15-50℃
Measuring temperature	0-45℃（Non-freezing）
Dimensions	Sensor：Diam69mm*Length 365mm Transmitter：145*125*162mm(L*W*H)
Weight	Sensor：3.2KG；Transmitter：1.35KG
Protective rate	Sensor：IP68/NEMA6P；Transmitter：IP66/ NEMA4X
Cable length	Standard:10M,the maximum may be extended to 100m

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