PCM200-TN Total Nitrogen Water Quality Online Automatic Monitor

Principle

Alkaline potassium persulfate oxidation - resorcinol method. The principle of the method is potassium persulfate under alkaline conditions heating to a certain temperature, so that nitrogen elements containing nitrogen compounds in the water sample into nitrate, in this process, organic matter is also oxidation decomposition, nitrate and resorcol in concentrated sulfuric acid medium to generate colored compounds, and then at the characteristic wavelength, measured absorbance, and according to the absorbance value of the total nitrogen content.



Features

- Use sapphire valve core of 10 valve, wear-resisting coefficient tall, resistant to strong acid, alkali, organic solvent resistance, strong service life, high stability;
- Use of special design way of reference, digestion pool mild displacement and digestion pool light pollution does not affect measurements;
- With waste liquid separation function, realizing high concentration waste liquid reaction from low concentration cleaning liquid waste emissions;
- Have dynamic dilution function, can be adjusted automatically according to the range of the scene set diluted multiples;
- With built-in standard addition recovery, blank test verification, the prototype verification, zero check, span, parallel sample testing and other quality control function;
- Can realize automatic, manual, remote start quality control functions;
- Has an automatic fault diagnosis and information uploading, logging, such as component fault, outrange alarm, alarm information such as the excessive alarm, lack of reagent;
- With overheating protection: heating temperature is exorbitant, heater automatically power;
- Abnormal reset and power later, electricity, instrument automatic discharge instrument in resi,due of reactants, automatically restore to the original working condition;
- With power-on alarm function, the instrument will generate alarm information when power is switched on again;
- With log analysis instrument process and measurement data record and alarm information storage capabilities, to record every hour data calculation, and can store more than 3 years;
- Can U disk rapid export data;
- With three-level management authority.

Application

- Total nitrogen online monitoring of drinking water;
- Total nitrogen online monitoring of surface water;
- Online monitoring of total nitrogen in inlet and outlet of municipal wastewater, the pollution discharge outlet.
- Online monitoring of total nitrogen in industrial wastewater outlet.

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Technical Specification

Measurement method	Alkaline potassium persulfate oxidation – resorcinol method
Range	0-250mg/L (Customizable)
Accuracy	≤±5%
Repeatability	≤2%
Resolution	0.0001 mg/L (2 to 4 decimal places can be set)
Display	7 inch display
Measurement mode	Continuous mode, periodic mode (adjustable from 1 hour to 30 days), fixed point mode, controlled mode, and manual mode are optional
Calibration mode	Manual calibration or automatic calibration
Maintenance cycle	General once a month
Power supply	220VAC±10%，50HZ±10%
Output	4-20mA output
Communication method	MODBUS RS-232、RS-485
Environmental conditions	Temperature adjustable room, recommended temperature +5-40℃ Humidity ≤85% (no condensation)
Size	302*271*462mm

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