PCM200-TP Total Phosphorus Water Quality Online Automatic Monitor

Principle

Ammonium molybdate spectrophotometry. Potassium persulfate was used to dissolve the water sample and convert all the phosphorus into orthophosphate. In acidic medium, orthophosphate forms colored complexes with color developing agent and reducing agent. The absorbance measured at a specific wavelength is proportional to the concentration of total phosphorus.



Main 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 residue 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.

Typical application

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

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Technical Specification

Range	0-100mg/L (Customizable)
Accuracy	≤±5% or≤±0.005mg/L（Bigger One）
Repeatability	≤2%
Resolution	0.0001mg/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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