PCM200-TMn Total Manganese Water Quality Online Automatic Monitor

Principle

Formaldehyde oxime spectrophotometry. After the water sample is digested, under alkaline conditions, the divalent manganese ions in the water sample are oxidized by dissolved oxygen to tetravalent manganese ions, which react with the developer to form a reddish-brown complex. The color change is proportional to the manganese content in the sample solution. The absorbance is detected at a specific wavelength, and the manganese concentration in the water sample is calculated.



Features

- The ten-way valve with sapphire valve core has high wear resistance, strong acid and alkali resistance, organic solvent resistance, long service life and high stability;
- The specially designed reference method is adopted, and the slight displacement and slight pollution of the digestion tank will not affect the measurement value;
- It has the function of waste liquid separation to achieve the separate discharge of high-concentration reaction waste liquid and low-concentration cleaning waste liquid;
- It has a dynamic dilution function, which can automatically adjust the dilution multiple according to the range set on site;
- It has built-in spike recovery, blank test, standard sample verification, zero point verification, span verification parallel sample test and other quality control functions, and can realize automatic, manual, remote and other ways to start the quality control function;
- It has the function of automatic fault diagnosis and abnormal information upload and recording, such as component failure, over-range alarm, over-standard alarm, reagent shortage alarm and other information;
- Overheat protection: If the heating temperature is too high, the heater will automatically cut off the power;
- After abnormal reset and power failure, the instrument will automatically discharge the residual reactants in the instrument and automatically restore to the initial working state. It has a power-on alarm function. When the power is turned on again after power failure, the instrument will generate an alarm message;
- It has the function of recording the process log of the analytical instrument, the measurement data and the alarm information storage. The data is calculated by recording once every hour, which can be stored for more than 5 years, and the data can be quickly exported to a USB flash drive;
- It has three levels of management authority.

Application

- Online monitoring of manganese concentration in tap water, drinking water and surface water;
- Online monitoring of manganese concentration in municipal sewage inlet and outlet, pollution source discharge outlet and industrial wastewater outlet.

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Technical Specification

Range	0-10mg/L (customizable)
Indication error	⩽±5%
Repeatability	⩽2%
Resolution	0.0001 mg/L (Decimal places can be set from 2 to 4 digits)
Display	7 inch display
Measurement mode	Continuous mode, periodic mode (1h-30d adjustable), fixed-point mode, controlled mode, manual mode optional
Calibration mode	Manual calibration and automatic calibration modes
Maintenance cycle	Usually once a month
Power supply	220VAC±10%,50HZ±10%
Output	4-20mA output
Communication method	MODBUS RS-232/RS-485
Environmental conditions	Indoor temperature with adjustable temperature, recommended temperature: +5-40℃; humidity ⩽85% (no condensation)
Dimensions	302*271*462mm (L*W*H)

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