PDCL-400A Digital Residual Chlorine Online Analyzer

Measurement Principle



The PDCL-400A digital residual chlorine/chlorine dioxide sensor uses advanced constant voltage principles to measure residual chlorine/chlorine dioxide in water. The method utilizes a stable potential between the polarized electrode and the reference electrode at which different measured components produce different current intensities. The meter calculates the concentration of the measured component by collecting and analyzing the current signal.

Features

- Easy clean and replace.
- Electrode no need to replace membrane and reagent when operating and the maintenance is simple to ensure the stability, reliability and accuracy of instrument for long-term working.
- Power supply and output isolation design to ensure electrical safety
- Power supply and communication chip built-in protection circuit, strong anti-interference ability
- With a comprehensive protection circuit design, it can work reliably without additional isolation equipment
- The circuit is built in the inside of the electrode, the environment is well tolerated, and the installation operation is easier.
- RS-485 transmission interface, MODBUS-RTU communication protocol, two-way communication, can receive remote commands
- Communication protocol is simple and practical, extremely convenient to use
- Output more electrode diagnostic information, more intelligent
- Internal integrated memory, memory calibration and setting information can be memorized after power off

Applications

- For chlorine water, chlorine dioxide measurement in swimming pools, drinking water distribution networks, swimming pools

Technical Specifications

Principle	Constant voltage method
Measurement range	0-2mg/L，0-20mg/L（optional）
Calibration	two-point calibration
Temperature compensation	Manual or automatic temperature compensation
Temperature coefficient	2%/℃
Power supply	12V DC
Communication protocol	MODBUS RS485
Flow rate	30 - 60L/h
Operating temperature	0-50℃（Non-freezing）
Electrode dimensions	Dia. 13.5mm*L 178.5mm
Mounting Dimensions	PG13.5
Electrode materials	316LStainless steel shell
Cable length	Standard 5M cable

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