

Chlorine Water Quality Sensor

WQS-CI Series



Overview

The chlorine sensor adopts membrane covered, amperometric potentiostatic 3-electrode, which effectively improves the measurement stability and accuracy of the sensor. The Free Chlorine or total chlorine factor enters the sensor through the selective permeability membrane, and a redox reaction occurs on the surface of the gold electrode to generate a weak current. The signal value obtained after processing is proportional to the Free Chlorine or total chlorine concentration. After calculation, it can obtain the residual or total chlorine concentration. WQS-CI series chlorine sensors are widely used in tap water, pipe network, medical wastewater, and other fields, and can provide customers with accurate and efficient monitoring.



Main Features

- Three-electrode coating method, stable and accurate measurement
- No chemical reagent consumption, environmentally friendly
- Long maintenance-free period and low maintenance cost
- The device is compact and easy to install

Specifications

Principle	Membrane covered, amperometric potentiostatic 3-electrode	Pressure	1 bar
Dimension	φ25×205 mm	Installation	Submerged, flow-through
Power requirements	DC+12 V ~ +24 V	Sample flow rate	250-500 mL/min
Operating temperature	2 to 45 °C	Communication	RS485(Modbus RTU)

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Parameter information

Parameter	Model No.	Range	Resolution	Accuracy
Free Chlorine	WQS-CI-F	0-2mg/L,0-5mg/L,0-20mg/L	0.001mg/L	± 3%F.S.
Total Chlorine	WQS-CI-T	0-2mg/L,0-5mg/L,0-20mg/L	0.001mg/L	± 3%F.S.
Temperature	WQS-CI	0-50 °C	0.1 °C	± 1 °C

Application



Monitoring of tap water and pipe network



Swimming pool total chlorine monitoring



Medical wastewater, effluent monitoring after disinfection



Other industrial water, cooling water and other total chlorine monitoring