

Residual Chlorine - Total Chlorine Electrode

Features

- Fast electrode response and stable performance, applicable in various working conditions such as tap water, swimming pools, SPA, and medical wastewater environments.
- Independently developed sensitive sensor membrane and internal filling solution (IFS), ensuring the electrode cap and electrodes can be OEM/ODM and continuously upgraded.
- Electrode housing materials can be selected from stainless steel, titanium alloy, or PVC to others on request.
- The working electrode uses a large area of gold to ensure stable electrode signals.
- The electrode integrates intelligent measurement components, providing automatic temperature compensation and automatic compensation for pH 4-12.



Specifications

Measuring method	Membrane-covered three-electrode technology; Lower limit 0.01mg/L Working electrode: Au
Measuring range	Free Chlorine/Total Chlorine/Chlorine Dioxide: 0-2mg/L; 0-10mg/L; 0-20mg/L (OEM/ODM available)
Resolution	0.01mg/L
Accuracy	Free or Total Chlorine: $\pm 2\%$ (full measurement range) Temperature: $\pm 0.1^{\circ}\text{C}$
Response time	T90<120 seconds
Temperature compensation	0-50°C auto temperature compensation (ATC)
Working conditions	Pressure: max.1atm. pH range: pH 4-pH 12
Installation	Flow cell with optimum flow speed 100-1000 mL/min
Applications	Drinking water plants for monitoring total chlorine and residual chlorine Monitoring residual chlorine and total chlorine in biomedical waste, swimming pools and SPAs
Wet materials	Housing: PVC/Titanium/SS316L (OEM/ODM optional) Sensor membrane: PVC/SS316L/PEEK
Signal output	Modbus-RS485 (4-20mA available)
Calibration	DPD-1: standard for Free Chlorine measurement DPD-4: standard for Total Chlorine measurement
Power consumption	Ultralow <0.5W (@12VDC)