

# Water Quality Analysis Residual Chloride Ion (CL-) Sensor WS102-CL

WS102-CL is a smart water quality analysis Residual Chloride Ion (CL-) Sensor, which can be used in drinking water, industrial process water disinfection process, hypochlorous acid (HOCL), online chlorine concentration monitoring, reverse osmosis and other membrane treatment processes Free chlorine monitoring. At the same time built-in temperature detection, measuring range 0 ~ 60 °C. Signal output mode supports RS485(Modbus RTU) and 4~20mA.



## Features & Benefits

System Parameter	
Power supply	DC10-30V(Recommend 12V)
Pressure range	0~100KPa
Shell material	PC+316
Cable length	5m or customize
Protection grade	IP68
Weight	0.5kg(Without packaging)
Inspection Parameter	
Measuring Range	0~20mg/L
Resolution	0.01mg/L
Accuracy	±2%FS
Temperature range	0~60°C
Resolution	0.1°C
Accuracy	±0.3°C
Temperature compensation	Automatic
Output	RS485(Modbus RTU);4~20mA
Communication Protocol Basic Parameter	
Protocol	Modbus RTU
Data bits	8 bit



## Features & Benefits

Parity bit	No
Stop bit	1
Error Detecting Code	CRC
Baud Rate	9600bps(Default)

### Address Description

Name	Register Address	Data Type	Length	Description
Measurements	0x 00 01	Floating point	2	Storage location for measured value
Temperature	0x 00 03	Floating point	2	Storage location for measured temperature
Current output	0x 00 05	Floating point	2	Output current based on FCL measurements
Warning	0x 00 07	Integer	1	00: Normal 01: Measurement exceeds the upper limit 02: Measurement exceeds the lower limit 03: Temperature exceeds the upper limit 04: Temperature exceeds the lower limit
Device address	0x 00 19	Integer	1	Default Value:1;1~254
Band Rate	0x 00 1A	Integer	1	0=2400 , 1=4800 , 2=9600(Default) 3=19200 , 4=38400
Restore factory	0x 00 1B	Integer	1	

### ✓ Electrode wiring

- Please follow the instructions carefully , the wrong wiring will damage the product completely.
- Please carefully check all the wiring in the system and confirm that the wiring is complete right before switch on the power.
- **Note: RS48SA line and RS48SB line are strictly forbidden to contact with the power supply line, otherwise the communication of the electrode will be permanently damaged.**



Electrode Outlet



## Ordering Information

Model	Description
WS102-CL	RESIDUAL CHLORIDE ION (CL-) SENSOR, 0~20MG/L, TEMP. MEASURING RANGE: 0~60°C, 5 METER CABLE, RS485 MODBUS, 10-30V POWER
	<b>Package List</b>
	1 x Product Unit
	1 x QIG