

Residual Chlorine Sensor

GCLS-1000 Online Residual Chlorine Sensor



Product Overview

The APS GCLS-1000 Residual Chlorine Sensor provides accurate online monitoring of free residual chlorine for drinking water, industrial process water and water treatment applications.

Designed for continuous operation, it delivers reliable measurement, fast response and low maintenance, making it ideal for municipal and industrial water quality monitoring.

Technical Specifications

Specification	Value
Range	0–20 mg/L
Accuracy	±2% or ±10 ppb
Response	<90 sec
Temperature	0–60°C
Flow Rate	15–30 L/h
Protection	IP68
Installation	Immersion
Connection	G3/4
Cable	5 m

Key Features

- ✓ Continuous online monitoring
- ✓ Fast response (<90 sec)
- ✓ High measurement accuracy
- ✓ Low maintenance membrane sensor
- ✓ Replaceable membrane & electrolyte
- ✓ IP68 industrial protection
- ✓ 5 m cable (custom lengths available)
- ✓ Compatible with APS chlorine controllers

Compatible Products

- GCLC-1000 Chlorine Controller
- GCLC-1001 Chlorine Controller

Typical Applications

-  Water Treatment Plants
-  Drinking Water
-  Industrial Process Water
-  Wastewater Treatment
-  Swimming Pools
-  Reverse Osmosis Systems
-  Aquaculture
-  Environmental Monitoring



Benefits

- ✓ Accurate chlorine measurement
- ✓ Stable long-term performance
- ✓ Continuous 24/7 monitoring
- ✓ Industrial-grade construction
- ✓ Fast installation
- ✓ Reduced maintenance
- ✓ Long service life
- ✓ Reliable process control

Installation & Maintenance

Installation

- Immersion mounting
- Compatible with APS monitoring systems

Routine Maintenance

- Monthly calibration
- Replace electrolyte every 3–6 months
- Replace membrane every 6–12 months

Ordering Information

Model	Description
GCLS-1000	Residual Chlorine Sensor
GCLC-1000	Advanced Chlorine Controller
GCLC-1001	Standard Chlorine Controller

Model Snapshot



Chlorine Sensor
GCLS-1000

Chlorine Sensor
GCLS-1001

Flow Cell
GWAS-FCL1



Chlorine Controller

Chlorine Sensor

Flow Cell



Chlorine Controller
Model GCLC-1000

Chlorine Sensor
GCLS-1004

Flow Cell
GWAS-FCL1

Residual chlorine sensor GCLS-1000



Model	GCLS-1000
Specification	
Measuring range	0.00...20.00mg/L(ppm)
Accuracy	2% or ± 10 ppb HOCl
Temperature range	0.0...60.0°C
Temperature sensor	NTC22K
Optional	PT100, Pt1000, NTC22K
Calibration method	Laboratory comparison method
Response time	90% < 90 seconds
Medium flow rate	15...30L/h
Calibration interval	Once every 1 month
Maintenance interval	add or replace electrolyte once every 3 to 6 months replacement of membrane every 6 to 12 months
Shell material	PC, stainless steel
Pressure range	0... 1bar
Polarization voltage	50mV
Process connection thread	G3/4
Cable length	5m or customize
Electrical connection	Pin type or BNC connector
Install	Immersion type
Protection grade	Ip68
Warranty	1 year

Residual chlorine sensor GCLS-1001



Model	GCLS-1001
Specification	
Measuring range	0.00...20.00mg/L(ppm)
Accuracy	2% or ± 10 ppb HOCl
Temperature range	0.0...60.0°C
Temperature sensor	NTC22K
Optional	PT100, Pt1000, NTC22K
Calibration method	Laboratory comparison method
Response time	90% < 90 seconds
Medium flow rate	15...30L/h
Calibration interval	Once every 1 month
Maintenance interval	add or replace electrolyte once every 3 to 6 months replacement of membrane every 6 to 12 months
Shell material	ABS
Pressure range	0... 1bar
Polarization voltage	50mV
Process connection thread	M39*1.5
Cable length	5m or customize
Electrical connection	Pin type or BNC connector
Install	Flow through type(flow cell)
Protection grade	Ip68
Warranty	1 year

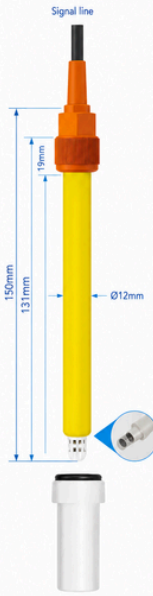


Residual chlorine sensor GCLS-1002



Model	GCLS-1002
Specification	
Measuring range	0.00...20.00mg/L(ppm)
Accuracy	2% or ± 10 ppb HOCl
Temperature range	0.0...60.0°C
Temperature sensor	NTC22K
Optional	PT100, Pt1000, NTC22K
Calibration method	Laboratory comparison method
Response time	90% < 90 seconds
Medium flow rate	15...30L/h
Calibration interval	Once every 1 month
Maintenance interval	add or replace electrolyte once every 3 to 6 months replacement of membrane every 6 to 12 months
Shell material	PC, stainless steel
Pressure range	0...1bar
Polarization voltage	50mV
Process connection thread	M28*1.5
Cable length	5m or customize
Electrical connection	Pin type or BNC connector
Install	Flow through type(flow cell)
Protection grade	Ip68
Warranty	1 year

Residual chlorine sensor GCLS-1003



Model	GCLS-1003
Specification	
Measuring range	0.00...20.00mg/L(ppm)
Principle	Constant voltage
Accuracy	2% or ± 10 ppb HOCl
Temperature range	0.0...60.0°C
Temperature compensation	NO
Response time	90% < 90 seconds
Medium flow rate	15...30L/h
Calibration interval	Once every 1 month
Calibration method	2-point calibration
pH range	5...9pH
Sensor top material	Two platinum rings
Shell material	Glass
Pressure range	0...1bar
Process connection thread	PG13.5
Cable length	5m or customize
Electrical connection	Pin type
Install	Flow through type(flow cell)
Protection grade	Ip68
Warranty	1 year

Residual chlorine sensor GCLS-1004



Model	GCLS-1004
Specification	
Measuring range	0.00...20.00mg/L(ppm)
Principle	Constant voltage
Accuracy	2% or ± 10 ppb HOCl
Temperature range	0.0...60.0°C
Temperature compensation	NO
Response time	90% < 90 seconds
Medium flow rate	15...30L/h
Calibration interval	Once every 1 month
Calibration method	2-point calibration
pH range	5...9pH
Sensor top material	Two platinum rings
Shell material	ABS
Pressure range	0...1bar
Process connection thread	M39*1.5
Cable length	5m or customize
Electrical connection	Pin type
Install	Flow through type(flow cell)
Protection grade	Ip68
Warranty	1 year

Intelligent residual chlorine sensor GCLS-1005



Model	GCLS-1005
Specification	
Measuring range	0.00...20.00mg/L(ppm)
Accuracy	2% or ± 10 ppb HOCl
Temperature range	0.0...60.0°C
Calibration method	Laboratory comparison method
Medium flow rate	15...30L/h
Temperature compensation	Automatic/Manual
Calibration interval	Once every 1 month
Maintenance interval	add or replace electrolyte once every 3 to 6 months replacement of membrane every 6 to 12 months
Shell material	PC, stainless steel
Power supply	DC9-30V (recommended DC12V)
Current output signal	4-20mA
Load	<500Q
Data communication	RS485(MODBUS-RTU)
Pressure range	0-1bar
Process connector thread	G3/4
Cable length	5m or customize
Electrical connection	Pin type
Install	Immersion type
Protection grade	Ip68
Warranty	1 year

Intelligent residual chlorine sensor GCLS-1006



Model	GCLS-1006
Specification	
Measuring range	0.00...20.00mg/L(ppm)
Accuracy	2% or ± 10 ppb HOCl
Temperature range	0.0...60.0°C
Calibration method	Laboratory comparison method
Medium flow rate	15...30L/h
Temperature compensation	Automatic/Manual
Calibration interval	Once every 1 month
Maintenance interval	add or replace electrolyte once every 3 to 6 months replacement of membrane every 6 to 12 months
Shell material	ABS
Power supply	DC9-30V (recommend DC12V)
Current output signal	4-20mA
Load	<500Q
Data communication	RS485(MODBUS-RTU)
Pressure range	0-1bar
Process connection thread	M39*1.5
Cable length	5m or customize
Electrical connection	Pin type
Install	Flow through type(flow cell)
Protection grade	Ip68
Warranty	1 year

Intelligent residual chlorine sensor GCLS-1007



Model	GCLS-1007
Specification	
Measuring range	0.00...20.00mg/L(ppm)
Accuracy	2% or ± 10 ppb HOCl
Temperature range	0.0...60.0°C
Calibration method	Laboratory comparison method
Medium flow rate	15...30L/h
Temperature compensation	Automatic/Manual
Calibration interval	Once every 1 month
Maintenance interval	add or replace electrolyte once every 3 to 6 months replacement of membrane every 6 to 12 months
Shell material	ABS
Power supply	DC9-30V (recommend DC12V)
Current output signal	4-20mA
Load	<500Q
Data communication	RS485(MODBUS-RTU)
Pressure range	0-1bar
Process connection thread	M39*1.5
Cable length	5m or customize
Electrical connection	M12 connector
Install	Flow through type(flow cell)
Protection grade	Ip68
Warranty	1 year



Intelligent residual chlorine sensor GCLS-1008



Model	GCLS-1008
Specification	
Measuring range	0.00~20.00mg/L(ppm)
Principle	Constant voltage
Accuracy	2% or ± 10 ppb HOCl
Temperature range	0.0~60.0°C
Calibration method	2-point calibration
Medium flow rate	15...30L/h
Temperature compensation	Automatic/Manual
Calibration interval	Once every 1 month
pH range	5...9pH
Sensor top material	Two platinum rings
Shell material	ABS
Power supply	DC9~30V (recommend DC12V)
Current output signal	4~20mA
Load	<500 Ω
Data communication	RS485(MODBUS-RTU)
Pressure range	0~1bar
Process connection thread	M39*1.5
Cable length	5m or customize
Electrical connection	Pin type
Install	Flow through type(flow cell)
Protection grade	Ip68
Warranty	1 year

Intelligent residual chlorine sensor GCLS-1009



Model	GCLS-1009
Specification	
Measuring range	0.00...20.00mg/L(ppm)
Principle	Constant voltage
Accuracy	2% or ± 10 ppb HOCl
Temperature range	0.0...60.0°C
Calibration method	2-point calibration
Medium flow rate	15...30L/h
Temperature compensation	Automatic/Manual
Calibration interval	Once every 1 month
pH range	5...9pH
Sensor top material	Two platinum rings
Shell material	ABS
Power supply	DC9~30V (recommend DC12V)
Current output signal	4~20mA
Load	<500 Ω
Data communication	RS485(MODBUS-RTU)
Pressure range	0~1bar
Process connection thread	M39*1.5
Cable length	5m or customize
Electrical connection	M12 connector
Install	Flow through type(flow cell)
Protection grade	Ip68
Warranty	1 year

Why APS Technology?

- Accurate online water quality monitoring
- Industrial-grade reliability
- Easy integration with APS controllers
- Australian technical support

