

Online Residual Chlorine Analyser



Disinfection
fluid
Monitor
Series

Online Residual Chlorine Monitor

AC2050

Function

Online residual chlorine meter is a microprocessor-based water quality online monitoring control instrument.

Typical Use

This instrument is widely used in online monitoring of water supply, tap water, rural drinking water, circulating water, washing film water, disinfectant water, pool water. and other industrial processes. It continuous monitoring and control residual chlorine and temperature value in aqueous solution.

Mains Supply

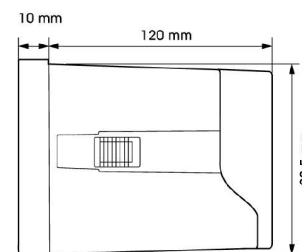
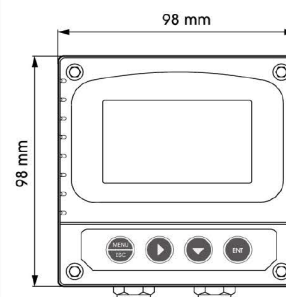
85~265VAC \pm 10%,50 \pm 1Hz, power \leq 3W;

9~36VDC, power consumption \leq 3W;

Measuring Range

Residual Chlorine: 0~20mg/L; 0~20ppm;

Temperature: 0~150 C.



Online Residual chlorine Monitor

Features

1. Large display, standard 485 communication, with online and offline alarm, 98*98*130mm meter size, 92.5*92.5mm hole size, 3.0 inch large screen display.

2. Historical curve: The residual chlorine measurement data can be stored automatically every 5 minutes, and the residual chlorine value can be stored continuously for a month. Provide standard solution calibration and field calibration.

3. Built-in various measurement functions, one machine with multiple functions, meeting the requirements of various measurement standards.

4. The design of the whole machine is waterproof and dustproof, and the back cover of the connection terminal is added to extend the service life in harsh environments.

5. Panel/wall/pipe installation, three options are available to meet various industrial site installation requirements.



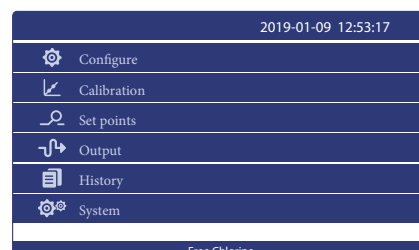
Measurement Mode



Calibration Mode



Field Calibration



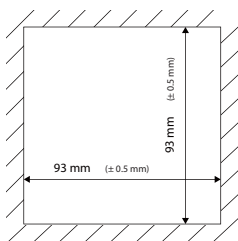
Setting mode

Electrical connections

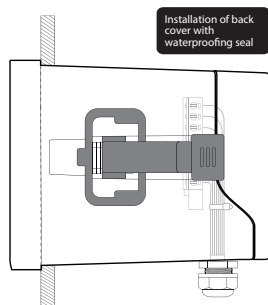
Electrical connection The connection between the instrument and the sensor: the power supply, output signal, relay alarm contact and the connection between the sensor and the instrument are all inside the instrument. The length of the lead wire for the fixed electrode is usually 5-10 meters, and the corresponding label or color on the sensor Insert the wire into the corresponding terminal inside the instrument and tighten it.

Instrument installation method

Embedded installation

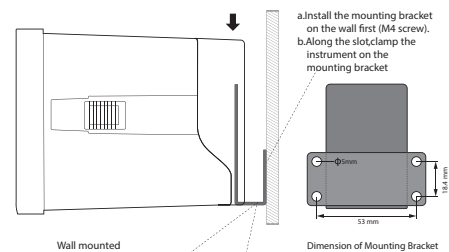


Embedded mounting Cut-out size



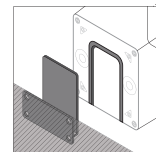
Embedded the instrument into the square hole, and fix it with the provided clasp.

Wall mounted installation

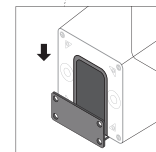


Wall mounted installation diagram

Dimension of Mounting Bracket



Fixed bracket (M4 screw) is installed on the wall first.



Insert the instrument into the fixture along the chute

Technical specifications

Measurement range	0.05 ~ 20.00mg/L ; 0.05 ~ 20.00ppm
Measurement unit	Potentiometric method
Resolution	0.001mg/L ; 0.001ppm
Basic error	±1%F.S
Temperature	-10 ~ 150.0 °C(Based on sensor)
Temperature Resolution	0.1 °C
Temperature Basic error	±0.3 °C
Current output	2 groups: 4 ~ 20mA
Signal output	RS485 Modbus RTU
Other functions	Data record & Curve display
Three relay control contacts	2 groups: 5A 250VAC, 5A 30VDC
Optional power supply	85 ~ 265VAC, 9 ~ 36VDC, power consumption ≤ 3W
Working conditions	No strong magnetic field interference around except the geomagnetic field.
Working temperature	-10 ~ 60 °C
Relative humidity	≤ 90%
Waterproof rating	IP65
Weight	0.6kg
Dimensions	98 × 98 × 130mm
Installation opening size	92.5 × 92.5mm
Installation methods	Panel & wall mounted or pipeline

Residual Chlorine Sensor



Model No.	AS2050E
Measurement method	Potentiometric method
Measure material	Double liquid junction,annular liquid junction
Housing material/Dimensions	PP, Glass, 120mm* Φ 12.7mm
Waterproof grade	IP68
Measurement range	0.5 - 5.000 mg/L, 0.5 - 20.00 mg/L
Accuracy	± 0.05mg/L;
Pressure resistance	≤0.3Mpa
Temperature compensation	None or Customize NTC10K
Temperature range	0-50℃
Calibration	Sample calibration
Connection methods	4 core cable
Cable length	Standard 5m cable, can be extended to 100m
Installation thread	PG13.5
Application	Tap water, disinfectantfluid, etc.



CONNECT+
IoT Solution Enabled

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