

SPA-Chlorine Free/Total Chlorine Water Quality Analyzer

Overview

The SPA-Chlorine is an on-line free/total chlorine analyzer that measures free/total chlorine in water using the DPD colorimetric method. The automatic DPD pumps reagents into the water sample for reaction and determines the water concentration by colorimetry. By selecting different reagents, the analyzer can measure either free or total chlorine.



Application

- Tap water factory water
- Tap water network
- Secondary water supply of tap water
- Medical wastewater

Features

- With self-diagnosis, abnormal alarm, data exceeding the standard alarm function
- Interval measurement optional, minimum 150 seconds
- Supports Modbus RS485 and 4-20mA signal outputs
- Support 4G, WiFi wireless data transmission

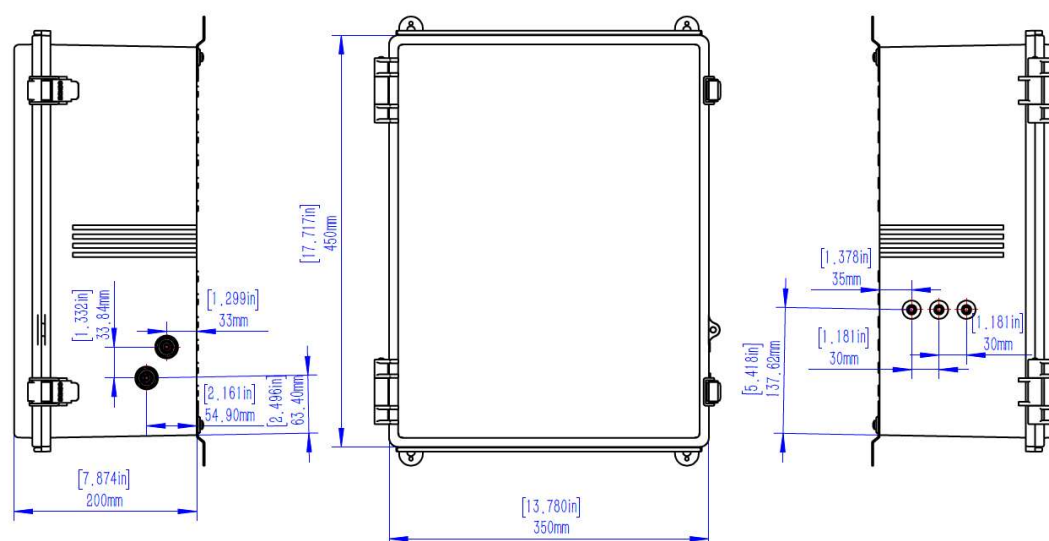
Specifications

Specification	Detail
Measurement method	DPD method
Range	Free Chlorine: 0-2 mg/L, 0-5 mg/L, 0-10 mg/L Total Chlorine: 0-2 mg/L, 0-5 mg/L, 0-10 mg/L
Accuracy	0-5 mg/L: $\pm 5\%$ of reading or ± 0.05 mg/L (the larger value) as Cl_2 0-10 mg/L: $\pm 10\%$ of reading as Cl_2
Measurement Period	Min 150 seconds, adjustable
Limit of detection	0.03 mg/L as Cl_2
Dimension	450×350×200 mm (17.72×13.78×7.87 inch)
Weight	9 kg
Power requirements	100-240 VAC, 50/60 Hz
Power consumption	25 W
Installation	Wall-mounted
Pressure	0.2-2 bar
Operating temperature	5-45 °C (41-113 °F)
Storage temperature	5-45 °C (41-113 °F)
Humidity	20% - 95%, indoor
Cable length	6 m (6.56 ft), Please contact us for other sizes
Tubing requirements	Inlet/Outlet: 6 mm outer diameter
IP rating	IP65
Analogue output	0/4–20 mA Resolution: < 100 μA Max. load: 750 Ω
Signal input	One electrically input (for start analysis/ flow switch)
Relay output	Two relays (Max. 250 VAC / 30 VDC 3A)
Communication Interface	Modbus RTU, RS485
Wireless communication	WiFi/4G (Optional Configurations), LoRa (Customizable)
Data storage	32 GB (25 GB available)
Warranty period	1 year

In no event will the manufacturer be liable for direct, indirect, special, incidental or consequential damages resulting from any defect or omission in this manual. The manufacturer reserves the right to make changes in this manual and the products it describes at any time, without notice or obligation.



Dimensions



Reagent Selection

Reagent Type	Name	Model	Capacity
Free Chlorine Reagent	Free Chlorine Analysis Reagent	WAR-DPD-FC1	500 mL
	Free Chlorine Analysis Buffer Reagent	WAR-DPD-BF1	500 mL
Total Chlorine Reagent	Total Chlorine Analysis Reagent	WAR-DPD-TC1	500 mL
	Total Chlorine Analysis Buffer Reagent	WAR-DPD-TF1	500 mL

Note:

- Analysis reagents and buffer reagents must be used together.
- When used with a 5 minute measurement cycle, this reagent can be used for one month.