

SPS-CI-C Free Chlorine Water Quality Sensor

Datasheet

Product overview

SPS-CI-C free chlorine water quality sensor based on the principle of constant voltage method measurement, can continuously and accurately determine the residual chlorine or chlorine dioxide of water samples, without consuming any reagent, without replacing the diaphragm and electrolyte. Measuring range: 0-2mg/L, 0-5mg/L, 0-20 mg/L. DC12 V~DC24 V power supply, RS485 Modbus RTU communication.

The free chlorine sensor is widely used in water supply, secondary water supply, municipal network, disinfection process and other fields to provide customers with reliable monitoring data.



Application

- Pipe system
- Waterworks
- Secondary Water Supply
- Disinfection process

Features

- No need for any reagents
- No need to change diaphragms and electrolyte
- Easy to install
- Low maintenance cost
- Zero-point stability

Specifications

Principle	Double platinum ring, constant voltage method
Measuring range	0-2 mg/L (ppm)
	0-5 mg/L (ppm)
	0-20 mg/L (ppm)
Accuracy	± 3% F.S. After repeated calibration at full scale (25 °C, pH 7.2 drinking water)
Dimensions	φ25×231 mm (Slightly different sizes for different interfaces)
Weight	0.11 kg
Power Requirements	DC +12 - +24 V
Installation method	Submerged, Flow-through
Operating temperature	2-45 °C (35.6-113 °F)
Storage temperature	2-45 °C (35.6-113 °F)
Sensor cable length	Cable straight out: 6 m (19.69 ft.),
	5 pole aviation plugs: 2 m (6.56 ft.)
	Please contact us for other sizes
Communication method	Modbus RS485
Sampling requirements	Temperature: 2-45 °C (35.6-113 °F)
	Flow rate: 250-500 mL/min;
	Pressure: no more than 1bar, in water flow at 2-45 °C (35.6-113 °F)
Certification	CE
Warranty period	One 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.

Product Selection

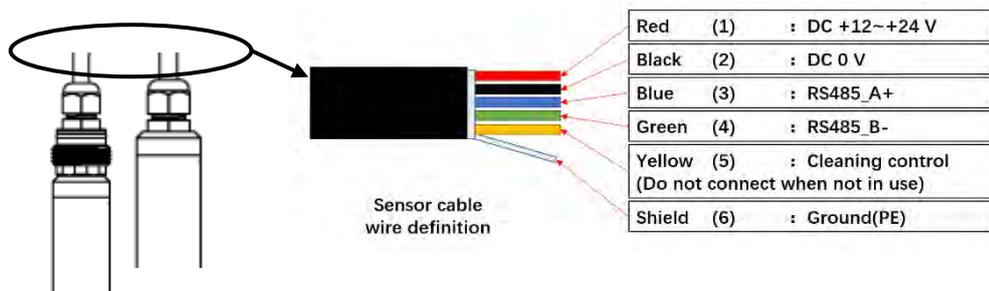
The sensors are available with different tail connections so that customers can choose according to their needs.

Model	Description	IP rating	Application
SPS-CI-C-S01	5 pole aviation plug with waterproof connection thread	IP65	
SPS-CI-C-S11	Cable straight out with waterproof connection thread	IP68	
SPS-CI-C-P01	5 pole aviation plug	IP65	
SPS-CI-C-P11	Cable straight out	IP68	

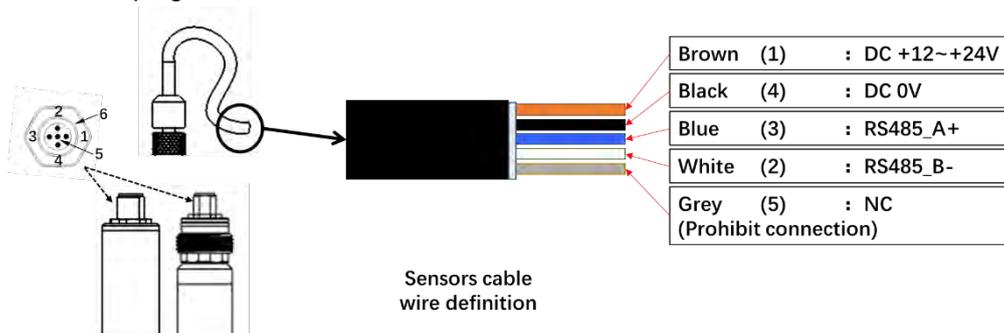
Interface definition

There are two types of wiring for the sensors, direct out and 5 pole aviation plugs. The two use different cables and have different wiring definitions, see diagram below.

Cable straight out.



5 pole aviation plugs



Dimensions

