

Dissolved CO2 Sensor In Water

Introduction

20101896 is a gas detection module for detecting the concentration of carbon dioxide in an aqueous solution. Patented optical cavity, imported light source and dual channel detector for spatial double reference compensation. The sensor has good selectivity, anaerobic dependence and long life. It also has UART, IIC digital output, analog voltage output and PWM frequency output mode, which is convenient for customers to choose applications. The sensor provides customers with zero calibration, sensitivity calibration and clean air calibration commands, and provides customers with manually calibrated MCDL pins. The customer can conveniently use the external free-flowing clean air to perform a relative zero calibration of the sensor module. The sensor uses a convection-diffusion venting method and a protective cover to accelerate the gas convection diffusion rate and protect the gas permeable membrane. Removable construction for easy cleaning of the sensor housing. The Sensors unique waterproof construction is removable for easy maintenance and cleaning. 20101896 can be used to measure the concentration of dissolved CO2 gas in water. It can also be used for HVAC and indoor air quality monitoring, agricultural and livestock production process monitoring, and agricultural product storage status monitoring. It can be installed in home networks, ventilation systems and controllers. Wall-mounted, robotic and automotive applications can also be applied to other equipment to control air quality or hypoxia monitoring.



Technical Specifications

Item	Parameter
Principle	Ultraviolet fluorescence method
Measuring range	2000ppm/5000ppm/10000ppm
Response time	10 sec
Accuracy	±20ppm/±50ppm/±300ppm
Protection level	IP68
Deepest depth	Underwater 60 meters underwater 10 meters
Temperature range	0 ~ 80°C
Output	Support RS-485, MODBUS protocol
Power supply	DC 5V
Size	Φ27*104.8mm
Probe cable length	10 m, customizable 5 m, 15 m and 30 m cable
Fluorescent cap life	1 year
Maximum working pressure	1.5bar
product material	POM

Dimensions

