Dissolved CO2 Sensor In Water

Introduction

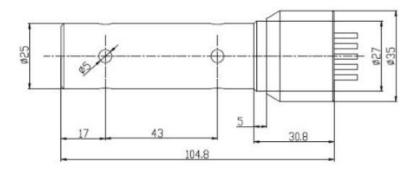
20101896 is a gas detection module for detecting the concentration of carbon dioxide in an aqueous solution. Patented optical cavity, imported light source and dual channel detector for spatial double reference compensation. The sensor has good selectivity, anaerobic dependence and long life. It also 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.



| 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 |

Technical Specifications

Dimensions





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