

SH-DO200 Dissolved oxygen digital sensor

● Overview

The SH-DO200 Dissolved Oxygen digital sensor uses the fluorescence method to detect dissolved oxygen in the water column, with a built-in temperature sensor that automatically compensates for the effect of temperature on the measurement. The sensor uses RS485 interface and standard Modbus protocol.



● Product features

- No need to replace the dissolved oxygen film and electrolyte, low maintenance
- Fast response time with fluorescence detection technology
- Internal storage of calibration data
- Corrosion-resistant housing, waterproof grade IP68, can work underwater for a long time
- RS485 communication interface, standard Modbus protocol for easy integration.

● Technical specifications

Working principle	Fluorescence
Measurement range	(0~20) mg/L Other ranges can be customized; Temp.: (0~50) °C
Repeatability	±0.15 mg/L
Accuracy	±0.2 mg/L
Precision	±0.3 mg/L
Drift (24h)	±0.2mg/L
Resolution	0.01 mg/L
Response time	<1 min
Protection class	IP68
Comm. Interface	RS485, standard Modbus protocol, baud rate 9600
Dimensions	(φ33*224) mm/(φ12*105) mm, cable 10m (customizable)
Materials	316 Stainless-steel/PVC/POM/Titanium alloy available
Weight	0.5 kg
Mounting threads	Upper NPT3/4 thread
Operating voltage	9~36 Vdc
Power absorption	0.4 W
Calibration period	3-6 months
Max. depth	30 meters
Operating temp.	(0~50) °C

● Product applications

- Surface water, municipal and industrial wastewater, aquaculture plants