

# Water Dissolved Oxygen and Temperature Sensor

DIG-WDO\_B



## Description

A dissolved oxygen sensor is used to measure the amount of oxygen dissolved in a liquid, such as water, for monitoring and control of biological and chemical processes, environmental studies, and aquatic research, among others. Fluorescence dissolved oxygen sensor, no oxygen consumption, no flow rate limitation, no electrolyte, no maintenance and calibration, strong anti-interference ability, and excellent stability.

Notable features are:

- Built-in temperature sensor, automatic temperature compensation.
- No membrane, no electrolyte, no interference, no frequent calibration.
- Super high cost performance.

## Technical Specifications

Parameter	Value
Measuring Range	DO: 0~20mg/L or 0~200% saturation Temp.: 0-50 °C
Resolution	DO: 0.01 mg/L Temp: 0.1°C
Measurement Accuracy	DO: ±0.3%FS Temp: ±0.3°C
Automatic Temperature Compensation	0 ~ 50 °C

## Technical Specifications

Power Supply	12-24 VDC current <50mA
Output	MODBUS-RTU/RS485
Power	≤0.5W
Operating Temperature / Pressure	0 ~ 50 °C 6 bar
Main Materials	Stainless Steel
Probe Cable Length	10 m
Fluorescent Cap Life	Guaranteed for 1 year (normal use)
IP Protection	IP68

## Electrical Connections

Cable	RS485
Red	V+
Black	GND
Green	RS485A
White	RS485B

## Dimensions



All units in mm.

### Note:

- Never touch the fluorescent cap on the sensor head with nails or sharp objects
- Remove the rubber cover before use and put on the plastic protective cover
- Use clean water to rinse the fluorescent film or the matching brush