



YOSEMITE TECHNOLOGIES CO.,LTD



OPTICAL DISSOLVED OXYGEN SENSOR PRODUCT LINE

让水质监测变得更简单
Water Monitoring Made Simple

www.yosemitech.com

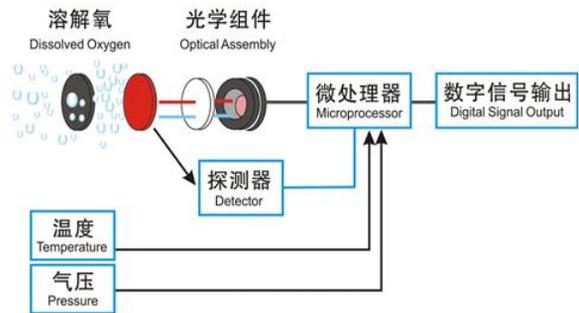
Optical Dissolved Oxygen Sensor



Principle of Operation:

Yosemitech Optical dissolved oxygen sensor measures dissolved oxygen using the principle of oxygen dynamic luminescence quenching technique. When blue light excites sensor film, the sensing film emits red light. The phase difference between the blue excitation and returned red emission is measured, and the result is used to calculate DO concentration.

- IP68 rating
- Membrane-less, no electrode design
- No oxygen consumption
- Flow Independent
- Automatic temperature compensation
- No H₂S Interference
- Low Drift, fast response, and accurate
- Low Maintenance, low operating cost
- Easy sensor cap replacement
- RS-485, MODBUS protocol



ORDERING INFO:

Model Description	Model #
Online Dissolved Oxygen Probe	Y504-A
Handheld Dissolved Oxygen Probe	Y500-B
Aquaculture Dissolved Oxygen Probe	Y505-A
Online Controller	Y611-A

ACCESSORY:

Model Description	Model #
Y504-A Sensor Replacement Cap	Y9002
Y611-A Sensor Replacement Cap	Y9001
Y505-A Sensor Replacement Cap	Y9003

Y504-A Sensor Specifications



Y504-A is designed for in-situ monitoring application, such as lakes, rivers, estuaries, and oceans. It also widely used in wastewater and other processing monitoring



SPECIFICATIONS

Range	0-20mg/L or 0-200% Saturation
Response Time	10 sec (T80)
Housing IP Rating	IP68
Accuracy	±1%
Drift	<1% per year
Working Temperature Range	0 ~ 50°C
Temperature Accuracy	±0.2°C
Interface	Support RS-485, MODBUS protocols
Construction	D3/4 thread, submersible
Power Requirements	DC 6~12V +/-5%, current <50mA
Temperature Sensor Type	NTC
Sensor Diameter	26mm
Sensor Length	177.5 mm
Cable Length	5m standard; 10m, 15m, and 30m optional
Calibrations	Support one point and two-points calibrations
Sensor Cap Lifetime	1 Year (under normal condition)

* PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE

Y500-B Sensor Specifications



Y500-B is designed for handheld instrument. Its small size and fast response time are especially useful for field and laboratory sampling applications



SPECIFICATIONS

Range	0-20mg/L or 0-200% Saturation
Response Time	10 sec (T80)
Housing IP Rating	IP68
Accuracy	± 1%
Drift	<1% per year
Working Temperature Range	0 ~ 50°C
Temperature Accuracy	±0.2°C
Interface	Support RS-485, MODBUS protocols
Construction Material	SS316, POM
Power Requirements	DC 6~12V +/-5%, current <50mA
Temperature Sensor Type	NTC
Sensor Diameter	16 mm
Sensor Length	180 mm
Cable Length	5m standard; 10m, 15m, and 30m optional
Calibrations	Support one point and two-points calibrations
Sensor Cap Lifetime	1 Year (under normal condition)

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Y1002 Sensor Specifications



With standard USB connection, Y1002 offers an unique solution for laboratory dissolved oxygen measurement.



SPECIFICATIONS

Range	0-20mg/L or 0-200% Saturation
Response Time	10 sec (T80)
Housing IP Rating	IP68
Accuracy	±1%
Drift	<1% per year
Working Temperature Range	0 ~ 50°C
Temperature Accuracy	±0.2°C
Interface	USB
Construction Material	SS316, POM
Temperature Sensor Type	NTC
Sensor Diameter	16 mm
Sensor Length	180 mm
Cable Length	1.5 m USB cable
Calibrations	Support one point and two-points calibrations in PC App
Sensor Cap Lifetime	1 Year (under normal condition)

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Y505-A Sensor Specifications



Y505-A is a low cost version designed for aquaculture applications. With about the same high performance but greatly reduced cost, the probe offers an ideal solution for aquaculture long term monitoring



SPECIFICATIONS

Range	0-20mg/L or 0-200% Saturation
Response Time	40 Sec
Housing IP Rating	IP68
Accuracy	3%
Drift	<1% per year
Working Temperature Range	0 ~ 50°C
Temperature Accuracy	±0.5°C
Interface	Support RS-485, MODBUS protocols
Installation thread	M22*1.5 mm
Power Requirements	DC 6~12V +/-5%, current <50mA
Temperature Sensor Type	NTC
Sensor OD	23mm
Sensor Length	188.3 mm
Cable Length	10m standard; 5m, 15m, and 30m optional
Calibrations	Support one point and two-points calibrations
Sensor Cap Lifetime	1 Year (at normal use)
Body materials	POM and Stainless steel

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