



Y4000 Multiparameter Sonde (V2.0)



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Forward



Thank you for choosing Yosemitech's instrument.

Please read this manual thoroughly before using the instrument, and keep the manual for future reference.

Please follow the instructions stated in the manual.

Remove the instrument from the package material and examine it to make sure that there is no damage occurred during the shipment. If there is any damage, please contact Yosemitech Customer Service immediately.

Save all materials until you are sure that the instrument functions properly. Any damage or defective items must be returned in their original packaging material.

Overview

Yosemitech's second generation Multiparameter Water Quality Sonde with integrated wiper system is an easy solution for in-situ water quality monitoring for rivers, lakes, streams, estuaries, or oceans. The wiper can effectively clean debris, bubbles and prevent bio-fouling for extended instrument deployment. All calibration data is saved in sensor memory and the system supports sensor field calibrations and field exchange. Total of 7 parameters (6 sensors) can be measured simultaneously, which include DO, CT, Turbidity, pH, ORP, Chlorophyll, Oil-in-Water, and NH3.



Key Features

- Digital sensors, support RS485, MODBUS
- All calibration data is stored in sensors, sensors can be replaced in field easily
- With integrated anti-fouling wiper for extended period of deployment
- Optical DO, 4-electrode CT, Turbidity, pH, Chlorophyll, BGA and many other
Yosemite's digital sensors can be chosen
- Support 6 sensors, measure 7 parameters simultaneously



Y4000 Specifications



SPECIFICATIONS

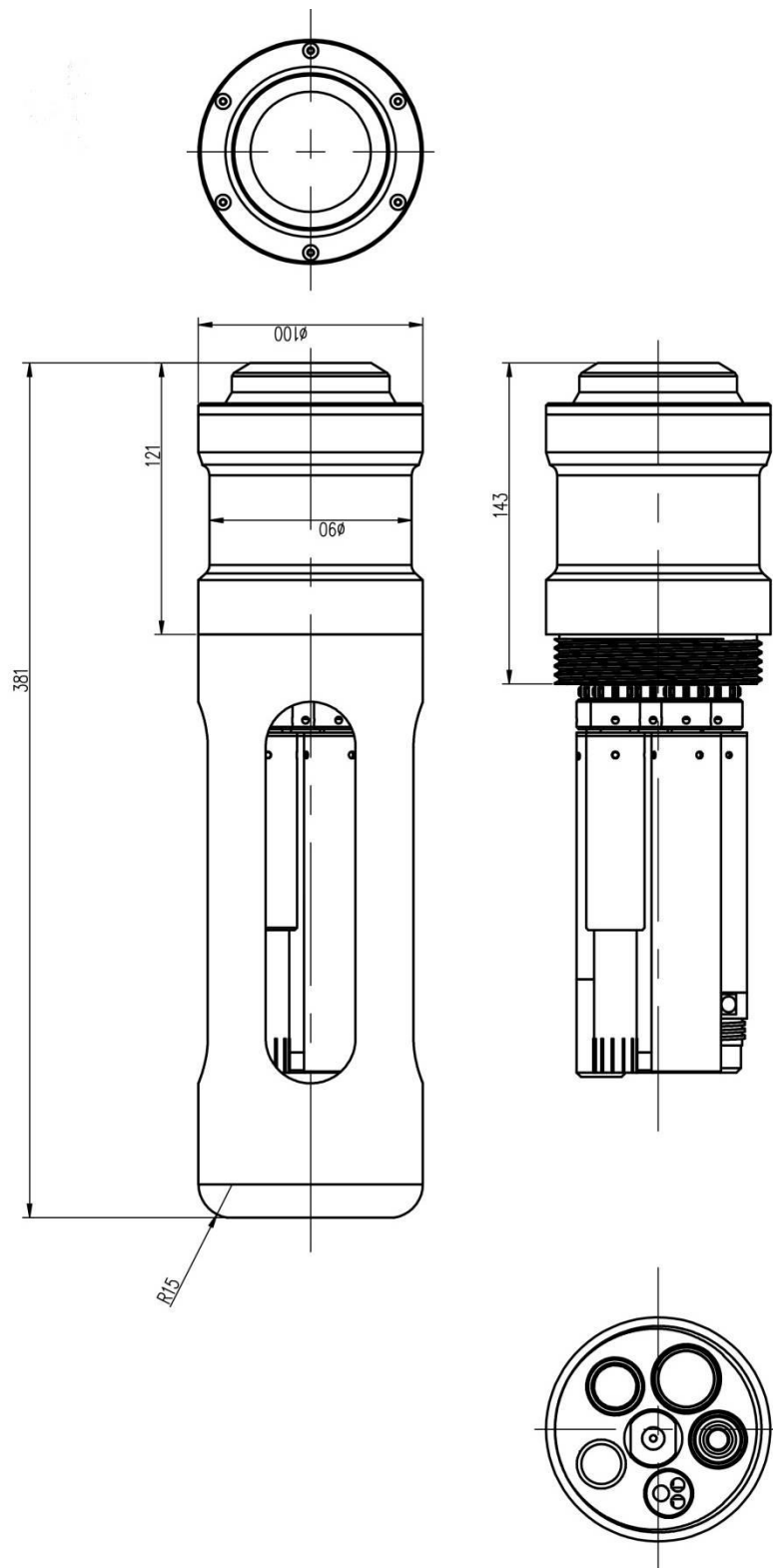
Optical Oxygen	Range	0-20mg/L or 0-200% SAT	
	Precision	±0.3mg/L	
	Resolution	0.01mg/L	
Turbidity	Range	0-1000 NTU	
	Precision	< 5% or 0.3NTU	
	Resolution	0.1NTU	
4-electrode Conductivity	Range	1μS/cm-200mS/cm	1μS/cm-100mS/cm
	Precision	1% FS	
	Resolution	0-1000μS/cm: 0.1μS/cm; 1mS/cm-100mS/cm: 0.1mS/cm	
Chlorophyll	Range	0~400 μg/L or 0~100RF	
	Precision	0.1 μg/L	
	Resolution	0.1 μg/L or 0.1% RFU	
Digital pH	Range	0-14pH	
	Precision	±0.1pH	
	Resolution	0.01	
Digital ORP	Range	-999~999mV	
	Precision	±20mV	
	Resolution	1mV	
Oil-in-Water	Range	0-500ppb or 0-5000ppb	
	Precision	5%	
	Resolution	0.1ppb	
NH3	Range	0-1000mg/L	
	Precision	±10%	
	Resolution	0.1mg/L	
SONDE	Operating Temperature	0~50°C	
	Output	One channel, RS485	
	Self-cleaning Wiper	Yes/ optional	
	Input Power	12V ±5%	
	Current required	100 mA	
	IP Rating	IP68	
	Cable Length	10m default, custom length available	

Ordering



Name	PN	Description
Multiparameter Sonde	Y4000	Including CT, turbidity, digital pH, temperature sensors(or other Yosemite digital sensors) and wiper. DC 12V input, IP68, RS485 output
Optical DO	Y504-B	Range 0~20mg/L or 0~200% SAT, RS485, waterproofing connector, IP68
4-electrode CT	Y520-B	Range 1 μ s/cm~200ms/cm, PEEK sensor body and Nickel electrodes, RS485, waterproofing connector, IP68
Turbidity	Y510-C	Fiber structure , Range:0.1~1000NTU, Accuracy:<5% or 0.3NTU, RS485, waterproofing connector, IP68
digital pH	Y532-A	pH 0-14, RS485, waterproofing connector, IP68
Digital ORP	Y533-A	Range: -999~999 mV, water proofing connector, IP68
Chlorophyll	Y515-B	range: 0~400ug/L or 0~100RF, Accuracy: 0.09ug/L Chlorophyll, RS485, waterproofing connector, IP68
Oil-in-Water	Y516-B	Range: 0-500 ppb, or 0-5000 ppb, precision 5%, resolution: 0.1 ppb
Wiper	Y541-A	waterproofing connector, IP68
Sonde	Y603-A	DC 12V,RS485, waterproofing connector, IP68, with protection cup.

Y4000 Mechanical Dimensions



Sonde Dimensions

Y4000 Wire Terminal Definition



Sensor Dimensions

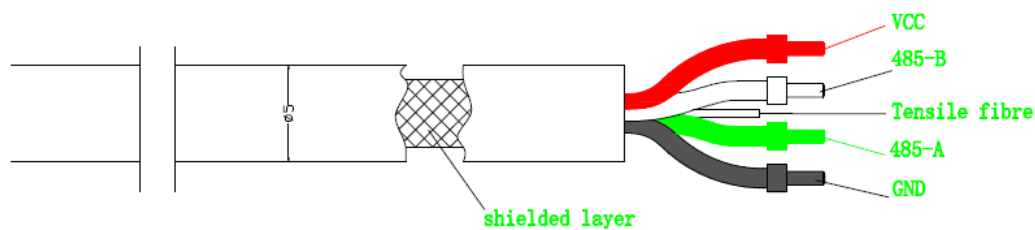
100x388 mm(Φ x L)

Power Requirement

DC 12V \pm 5%

Cable

4 wire AWG-24 or AWG-26 shielding wire



1. Red: Power (VCC)
2. White: 485 DATA_B (485_B)
3. Green: 485 DATA_A (485_A)
4. Black: Ground (GND)
5. Bare Wire: Shielding

Warranty Period



Warranty Period	
Optical DO sensor	1 Year
Turbidity Sensor	1 Year
4-electrode CT sensor	1 Year
Digital pH sensor	3 months
Digital ORP sensor	3 months
Blue Green Algae sensor	1 Year
Oil-in-Water sensor	1 Year
Temperature sensor	1 Year
Sonde	3 Years
Consumable	3 months

Please note self-cleaning wiper has o-ring seal for rotating shaft. Yosemitech recommends factory replacement of the shaft seal after 18 month of use. Yosemitech will not responsible for any water leakage and sensor damage after 18 months.

Yosemite Technologies' Multiparameter Sonde and sensors are warranted for the time listed above from date of purchase against any material and manufacturing workmanship.

Within the warranty period, Yosemite Technologies will repair or replace, free of charge, any product that Yosemite Technologies determines to be covered by the warranty.

Yosemite Technologies will response to customer request within two weeks. Please do not ship without Yosemitech's confirmation. Warranty service can only be performed by Yosemite Technologies or an authorized agent.

Limitation of Warranty

The limited warranty covers manufacturing defects in materials and workmanship encountered in normal use of this product. This Warranty does not apply to any Yosemite Technologies product damage or failure caused by:

1. Failure to install, operate or use properly according to Yosemite Technologies' product instructions;
2. Abuse or misuse of the product;
3. Failure to maintain the product in accordance with Yosemite Technologies' maintain instructions, or standard industry procedure;
4. Modification of the product in any way not expressly authorized by Yosemite Technologies.



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