



Recorder



Flow



Pressure



Temp



Analyzer



Level

Datasheet

Dissolved oxygen sensor

SUP-DO7018

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**Datasheet****Dissolved oxygen sensor  
SUP-DO7018**

The fluorescent dissolved oxygen sensor adopts a new generation of fluorescence lifetime technology and self-developed high-performance fluorescent materials. No oxygen consumption, no flow rate limitation, no electrolyte required, no maintenance and calibration, no hydrogen sulfide interference, and excellent stability. Built-in temperature sensor, automatic temperature compensation. RS485 output, can be networked without a controller.

**Applications**

- Aquaculture
- Sewage Treatment
- Surface water
- Regulating pools
- Biochemical ponds
- Industrial production processes

**Features**

- RS485 communication and MODBUS output
- No membrane and no electrolyte required
- No interference
- No need for frequent calibration
- No need to consume oxygen
- No flow rate limitation
- Built-in temperature sensor
- Automatic temperature compensation

**Dissolved oxygen sensor**

**Parameters**

Parameters	Details
Range	0-20mg/L or 0-200% saturation
Response time	10s
Ingress protection	IP68
Maximum water depth	10m
Accuracy	± 1%
Sensor drift	<1% per year
Temperature range	0~50°C
Temperature accuracy	±0.2°C
Sensor interface	Support RS-485, MODBUS protocol
Installation	3/4 inch parallel screw thread, immersion type
Power information	DC 5~24 V +/-5%, current <50mA
Temperature Sensor	NTC
Shell diameter	26mm
Shell length	151mm
Probe cable length	5m、10m、15m、30m
Calibration	One or two point calibration
Fluorescent cap life	One year (under normal use)
Sensor Housing Material	Titanium alloy

Note: The above technical parameters are the data in the laboratory standard environment

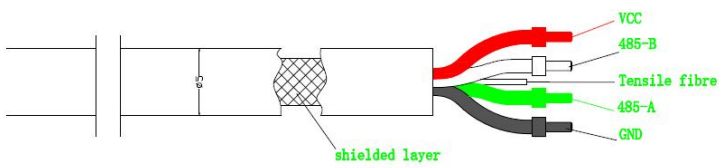
## Wiring

(1) Power supply

Power supply must be DC 5-24V +/-5%, current<50mA

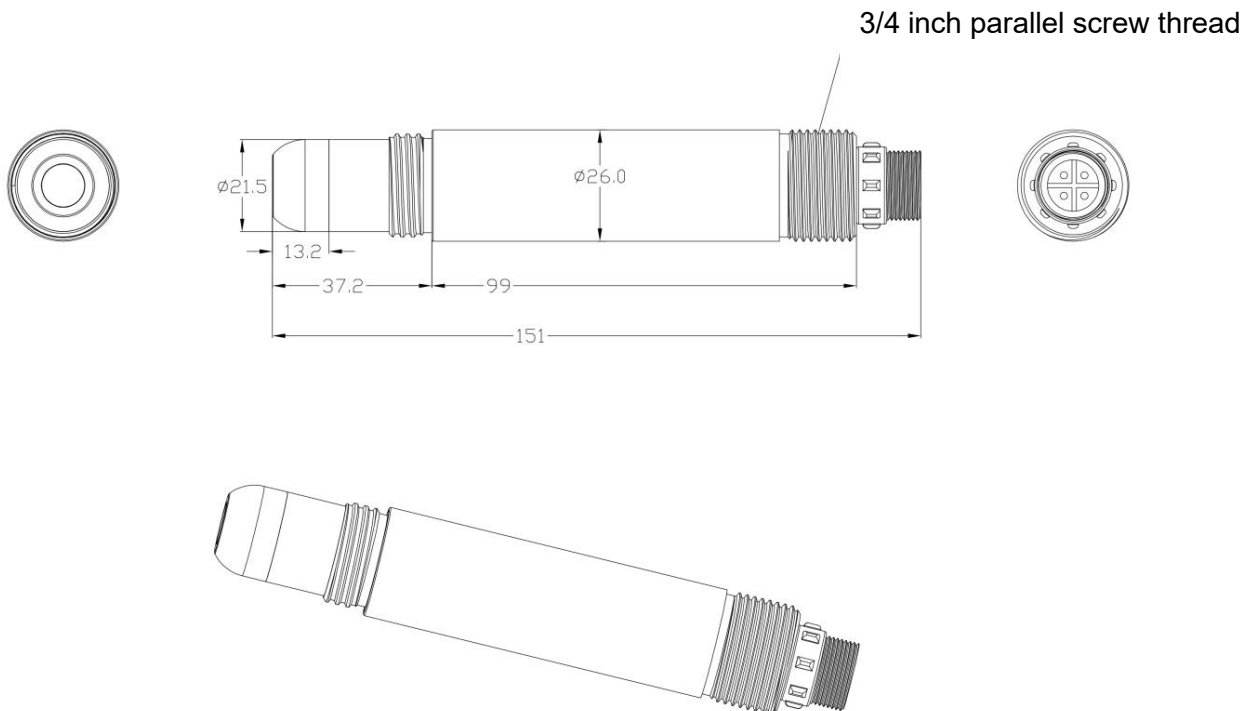
(2) Transducer electric connector

4 wire AWG-24 or AWG-26 shielding wire. OD=5mm



- 1, Red wire—Power (VCC)
- 2, White wire—485 data\_B ( 485\_B)
- 3, Green wire---485 data\_A (485\_A)
- 4, Black wire --- Ground wire (GND)
- 5, Bare wire---- Shielding layer

## Dimensions



Unit:mm

**Ordering code**

SUP-DO7018-HM1-CS10												Description	
SUP-DO7018	-	-	-	-	-	-	-	-	-	-	-	-	Measuring range: (0~20) mg/L or 0~200% saturation Temperature range: (0~50)°C Pressure resistance: 0.3MPa
Serial Number	DO7018											Titanium alloy	
Shell material	HM1											10m	
Cable length	CS10 CSXX											XXm	