

Dissolved oxygen sensor DO7018 series Datasheet



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Datasheet

Dissolved oxygen sensor 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

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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

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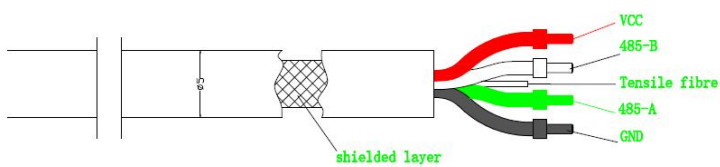
Wiring

(1) Power supply

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

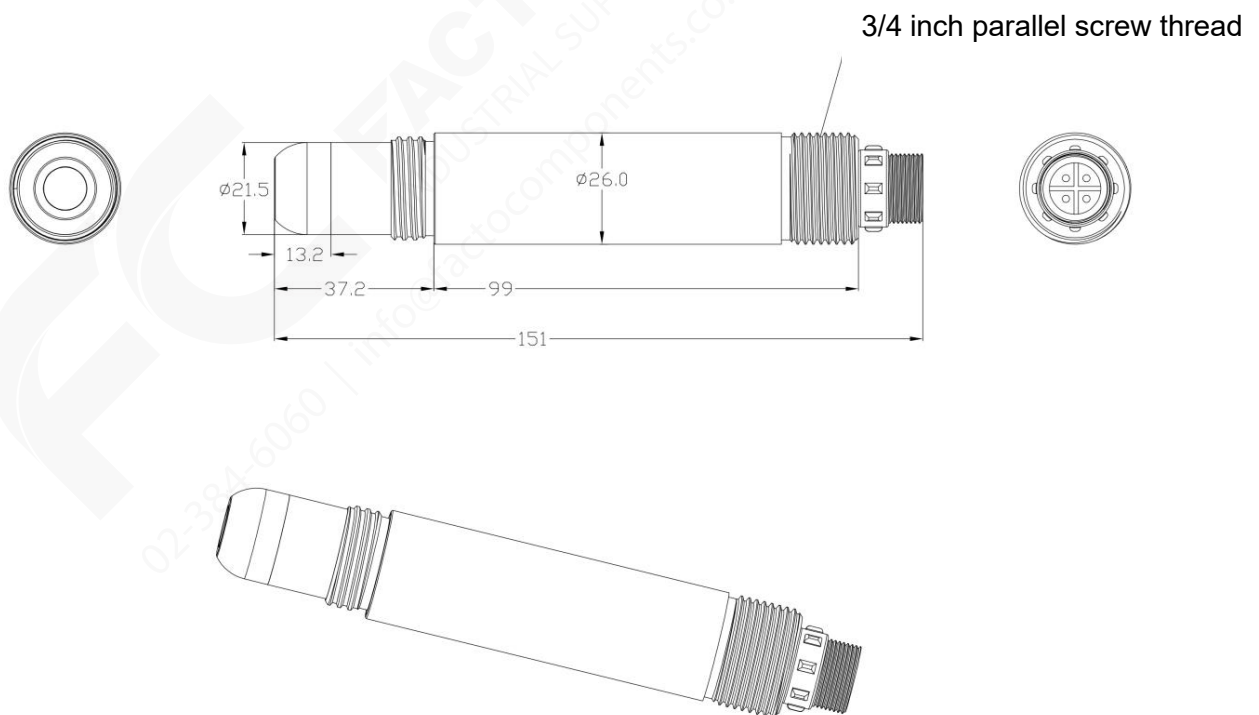
(2) Transducer electric connector

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

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Ordering code

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

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