

ADA FLOW



**Dissolved oxygen
sensor: Do7018**

www.adaflow.com.tr

Addr: 19th floor, no:99, Buyukdere Rd, Istanbul - Turkey. **Tel:** +90 (537) 289 4118

 www.adaflow.com |  info@adaflow.com

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.

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

Applications

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

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

Touch the sensitivity...

Dissolved oxygen sensor: Do7018

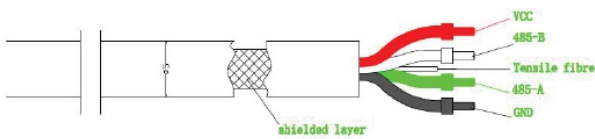
Wiring

(1) Power supply

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

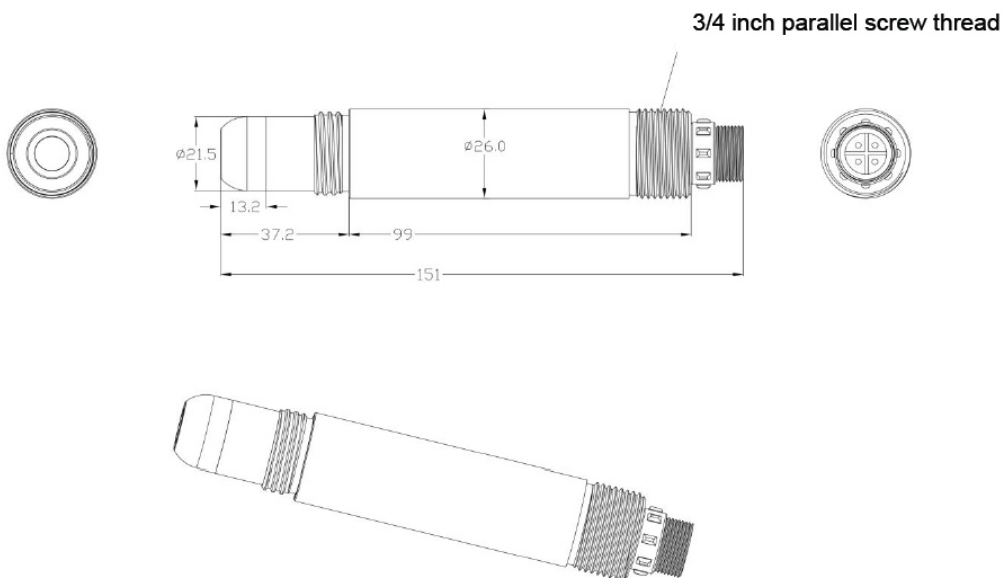
(2) Transducer electric connector

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

Wiring



Touch the sensitivity...

Ordering code

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