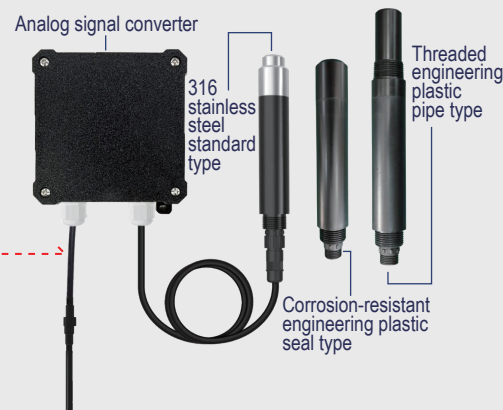


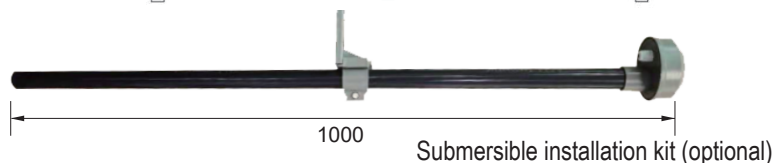
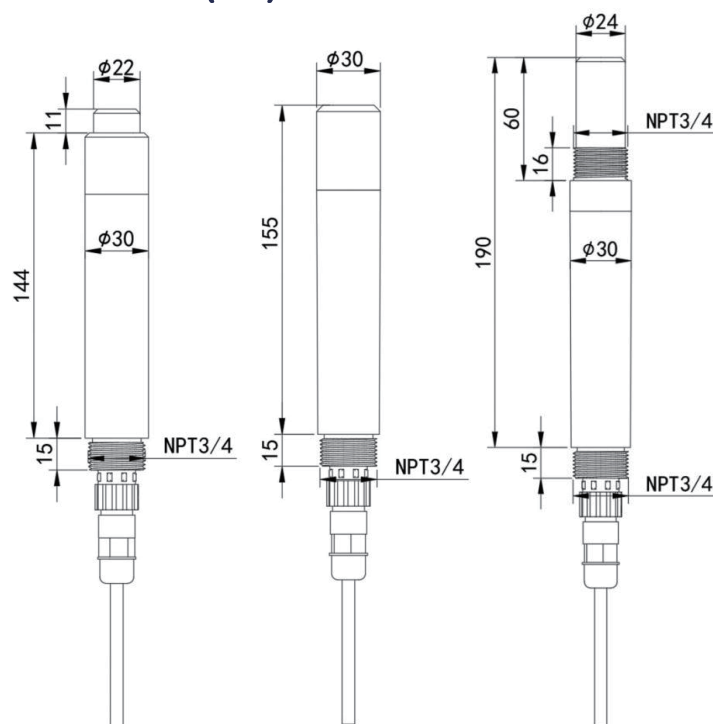
- Capable of measuring dissolved oxygen concentration in solutions, equipped with a built-in temperature sensor and automatic temperature compensation function.
- Widely applicable in industries such as wastewater treatment, aquaculture, and environmental monitoring.
- RS485 communication interface: ModBus-RTU communication protocol.
- ModBus communication address is configurable, and baud rate is adjustable, facilitating connection to computers for monitoring and communication.
- Dissolved oxygen measurement range: 0~20 mg/L (0~200% saturation).
- Analog output options: 4~20 mA; 0~5 V; 0~10 V selectable.
- Device supports wide voltage power supply: DC 10~30 V (DC 24 V required for 0~10 V output).
- Uses a high-quality imported fluorescent membrane with a lifespan of one year; membrane is replaceable.
- Based on fluorescence measurement principle: does not consume oxygen and requires no electrolyte.



## SPECIFICATIONS

- ◆ Power supply : DC 10~30V (0~10V power supply DC 24V)
- ◆ Power consumption : 0.2W (**communication**) / 0.8W (**analog**)
- ◆ Communication interface: RS485; standard ModBus-RTU protocol;  
**Communication** baud rate is preset to 4800 (2400, 4800, 9600, 19200, 38400, 57600, 115200 can be set)  
**Analog** signal: 4~20mA, 0~5V, 0~10V
- ◆ Measurement principle : Fluorescence method
- ◆ Measurement range : 0~20mg/L (0~200% saturation)
- ◆ Measurement error :  $\pm 3\%$ FS;  $\pm 5^{\circ}\text{C}$  (25 $^{\circ}\text{C}$ )
- ◆ Resolution : 0.01mg/L; 0.1%; 0.1 $^{\circ}\text{C}$
- ◆ Response time :  $\leq 60\text{s}$
- ◆ Equipment working conditions : Probe: 0~40 $^{\circ}\text{C}$   
Converter housing: -40 $^{\circ}\text{C}$ ~60 $^{\circ}\text{C}$ , 0%RH~95%RH (non-condensing)
- ◆ Fluorescent film life : One year of normal use (replaceable diaphragm)
- ◆ Waterproof level : Probe: IP68  
Waterproof housing: IP65
- ◆ Probe withstand voltage : 0.6MPa
- ◆ Electrode line length : Standard 5 meters
- ◆ Shell material : Stainless steel/engineering plastic

## DIMENSIONS (mm)



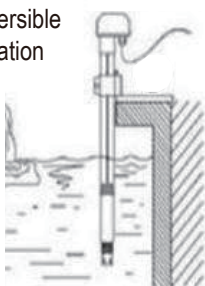
## ORDER INFORMATION

DCRS- **Code1** - **Code2** - **Code3**

Code1	Transmitter	Code2	Output Signal
LDO	Fresh water	V	0~10V
LDOS	Sea water	Y	RS-485
		A	4~20mA
Code3	Material		
2	316 standard type (fresh water)		
3	Sealed corrosion resistant type (sea water)		
4	Dental vascular type (fresh water)		

## INSTALLATION METHOD

Submersible Installation



The sensor cable passes through a stainless steel tube. The top of the sensor head features a 3/4" threaded connection, which should be securely connected to the stainless steel 3/4" thread using PTFE (Teflon) tape. Ensure that the top of the sensor and the cable entry point remain watertight to prevent water ingress.

## WIRING CONNECTION

Comm.	Wire Color	Description
Power	Brown	Power+(10-30Vdc)
	Black	Power-
Comm.	Yellow(Green)	485-A
	Blue	485-B

Analog	Wire Color	Description
Power	Brown	Power+(10-30Vdc)
	Black	Power-
Output	Blue	Signal+
	Yellow(Green)	Signal-