

# RDO-200 Fluorescence Dissolved Oxygen Sensor

## Application

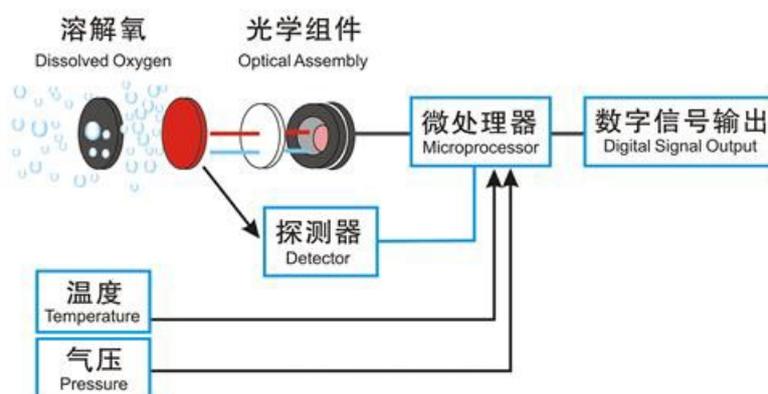
Widely used in online dissolved oxygen monitoring for power plant, chemical, industrial wastewater, pharmaceutical, biochemical and water treatment industry.

## Feature

- 0-20mg / L or 0-200% saturation
- 0 ~ 50 °C; IP68 protection rating
- No film, no electrolyte, not polarization
- No consumption of oxygen, the flow rate is not affected
- Built-in temperature sensor, automatic temperature compensation
- Chemical interference from sulfide
- In drift, fast response, more accurate measurements
- Maintenance-free longer applicable period, lower cost
- Fluorescent cap replacement is simple
- Supports RS-485, MODBUS protocol



Measuring principle: luminescent dissolved oxygen sensor is based on a specific matter physics quench the fluorescence of the active principle. From a light-emitting diode Blue light (LED) in the fluorescence emitted by the phosphor surface of the cap, the inner surface of the fluorescent substance is excited, emit red light, by detecting the phase difference between the red and blue, and with internal calibration values and compared to calculate the concentration of molecular oxygen, temperature and pressure through the automatic compensation output a final value.



## Technical instructions

DO range	0-20mg/L 0-20 mg/L or 0-200% saturation
Reaction time	10 sec
Degree of protection	IP68
DO accuracy	±1%
Sensor drift	<1% per year
Temperature range	0 ~ 50°C
Temperature accuracy	±0.2°C
Sensor interface	RS-485, MODBUS
Assembly	6 points straight thread, immersive installation
Power information	DC 5.5V +/-10%, current <50mA
Temperature sensor	NTC
Housing diameter	26mm
Housing length	177.5 mm
Probe cable length	10m, optional 5 m, 15 m and 30 m cable
Calibration	One or two calibration