

## Verge Dissolved Oxygen sensor VWQS-DO02

### Data Sheet

Fluorescence dissolved oxygen sensor that doesn't consume oxygen, doesn't have a flow rate limitation, has no need for electrolyte, meaning no maintenance and calibration, has strong anti-interference ability, and excellent stability. Built-in temperature sensor, automatic temperature compensation. RS485 Modbus output, can be networked without a controller, it is IP68 rated

#### 3. Product Principle

It is based on the quenching principle of active fluorescence by specific substances. The blue light emitted from an LED irradiates the fluorescent material on the inner surface of the fluorescent cap. The fluorescent material on the inner surface is excited and emits red light. The phase difference between the red light and the blue light is detected and compared with the internal calibration value. The concentration of oxygen molecules is automatically compensated by temperature and air pressure. It is simple to calibrate and is part of the Verge Sonde system, allowing for periodic automatic sensor cleaning. Sensor could be utilized alone or part of Sonde.

### Specifications

<b>Parameter</b>	Dissolved Oxygen
<b>Units</b>	mg/l
<b>Range</b>	0-20
<b>Resolution</b>	0.01
<b>Accuracy</b>	+/-0.5%
<b>Protocol</b>	RS485 Modbus
<b>Temperature Limits</b>	+5 to 45 degC
<b>Voltage supply</b>	8-24 VDC
<b>Housing Materials</b>	Stainless Steel
<b>Cable Materials</b>	Rubber
<b>Cable Length</b>	5m
<b>Modbus Address (Adjustable)</b>	04(DEC)
<b>Wire colours</b>	Red: V+, Black: V-, Yellow or White: Modbus A, Green: Modbus B



## *Contact*

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