

[Product Description]

- Measurement principle: Based on the fluorescence method. Blue light is emitted onto the fluorescent layer, exciting the fluorescent substance to emit red light. The dissolved oxygen concentration is inversely proportional to the time it takes for the fluorescent substance to return to its ground state, ensuring stable and reliable measurement results.
- Optical dissolved oxygen sensor with no consumables required; no need to replace electrolyte, ensuring easy maintenance.
- The electrode is made of 316 stainless steel, offering excellent corrosion resistance, and features an IP68 waterproof rating, allowing long-term underwater operation.
- With automatic temperature compensation



[Features]

- Integrated design with built-in IoT communication and sensors; ready to operate upon power-up with all functions pre-installed.
- IP68 submersible, corrosion-resistant construction; can be directly immersed in water without the need for a protective sleeve.
- High-strength, isolated cable can be directly deployed, ensuring stable signals; both power and IoT communication are protected against surge interference.
- Equipped with temperature compensation, and the measurement method complies with the environmental authority standard NIEA W218.51C for automatic monitoring systems.
- Intelligent design capable of storing calibration parameters; after calibration, it can be installed directly on-site.
- Calibration can be performed in air or oxygen-free water.
- During calibration and automatic cleaning, the last measured value is held to prevent false operation; status can be monitored simultaneously (calibrating / auto-cleaning / stabilizing / maintenance).
- The latest three calibration records (date / slope / calibration points) can be accessed via Web or RS-485.

[Applications] Waste water, recycled water, aquaculture, industrial water

[UVDO Optional code]

UVDO

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Code 1

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Code 2

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Code 3

Code 1	Function	Code 2	Sensing end connector	Code 3	Line/Air duct length
N	No auto-cleaning	C	Quick connector	N	3M
A	Auto-cleaning(Including standard 12VDC air pump, nozzle)			C	3 meters + quick connector
A24	Auto-cleaning(Including 24VDC air pump, nozzle)	F	Cable head	Value N	Line length
				Value C	Line length + quick connector

Code 2: Quick connector



Code 2 Cable head



[Technical Specifications]

- RS-485 Modbus RTU; web-based interface with no app required—direct operation via mobile devices.
- Data resolution: 16-bit (0.001% F.S).
- Surge protection: 8000 VDC.
- Protection: polarity, overload, and short circuit.
- Measurement principle: fluorescence method.
- Installation methods: submersible, tee-mounted, and insertion type.

[UVDO Specifications]

UVDO Specifications		Temperature Specification	
Measuring range	0~20mg/L	Measurement range	0~50°C(ATC)
		Accuracy	±0.2mg/L
Accuracy	±0.3mg/L (ppm)	Resolution	0.1°C
Resolution	0.01 mg/L	Repeatability	0.1°C
Electrode pressure tolerance	Max. 58psi	Other Specification	
Operating temperature	0~50 °C	Link above	3/4" NPT
		Link below	M42
Response time	T90 1 second	Housing Material	PP, acid and alkali resistance/food grade/ zero dissolution
		Electrode material	316 stainless steel
Communication method	RS-485 Modbus RTU Direct reading via web browser (192.168.1.80)	Dimension	ø50*L213.9mm
		Weight	≤390g
		Power	Auto-cleaning:12 or24VDC(optional) Non auto-cleaning:9~36VDC
Waterproof rating	IP68	Power consumption	Auto-cleaning:6.8W Non auto-cleaning :0.8W

[Dimension] Unit:mm

