LUMINSENS

SELF-INNOVATION, RESEARCH AND DEVELOPMENT COMPARABLE TO THE WORLD

SCIENCE AND TECHNOLOGY CHANGE THE WORLD

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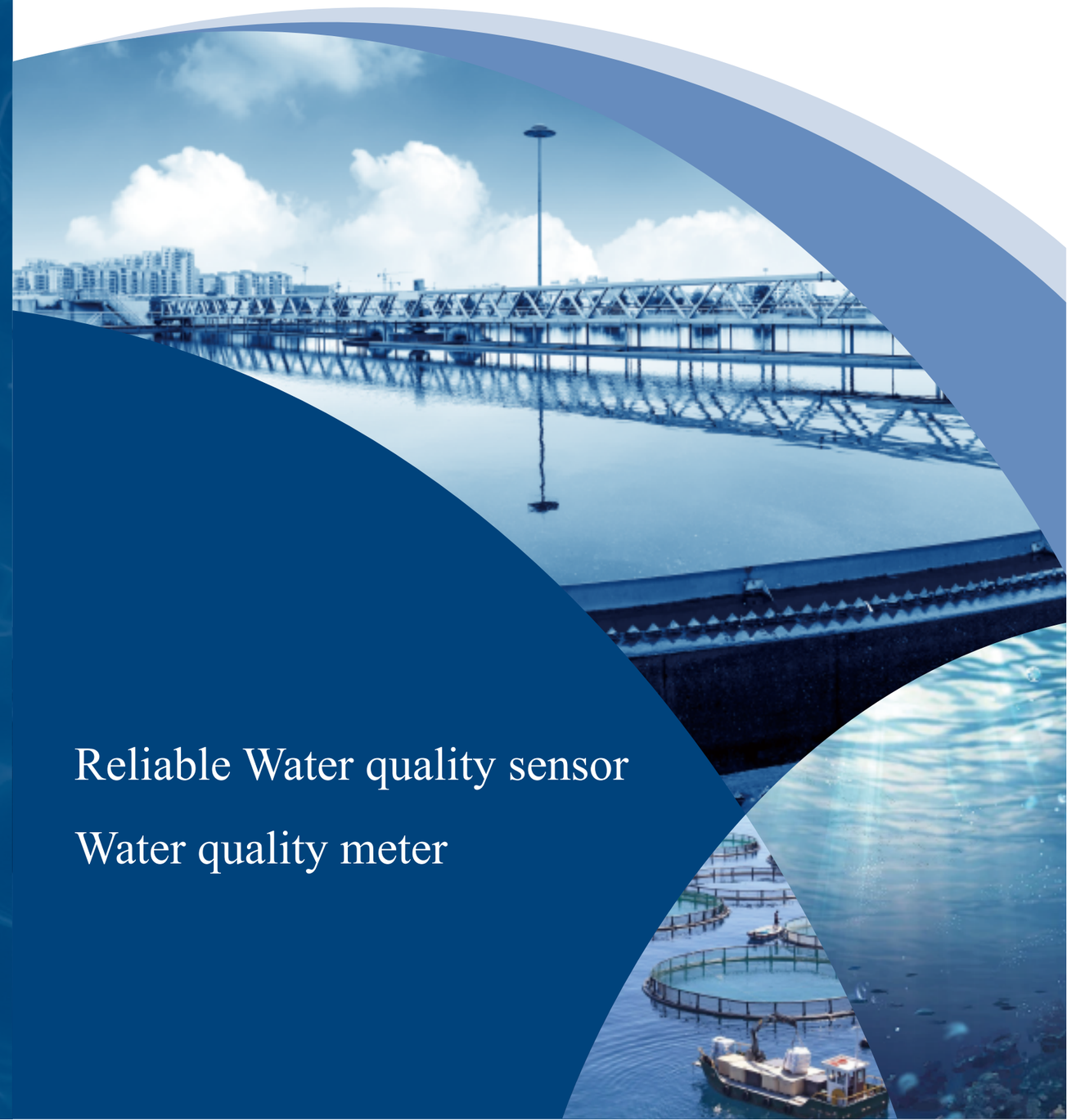
LUMINSENS
罗梅森海洋科技

SCIENTIFIC AND TECHNOLOGYCAL
ACHIEVEMENTS TRANSFORMING
ENTERPREISES



Reliable Water quality sensor

Water quality meter

COMPANY INTRODUCTION

● Qingdao LuminSens Marine Technology Co., Ltd. is an enterprise transforming scientific and technological achievements of the Institute of Marine Instrumentation of Shandong Academy of Sciences, with a registered capital of 12.97 million yuan. The company focuses on marine monitoring technology research and equipment development, mainly engaged in the series of fluorescent sensitive components and high-end water quality optical sensors OEM R & D, production, sales and services. We can provide personalized design services and monitoring system integration solutions according to customers' special requirements. Our products and services are widely used in aquaculture, environmental monitoring, biomedicine, industrial production and scientific research and education.

● The team has strong R & D strength, now has a number of doctors, undertake a number of national natural science foundation, science and technology projects, including more than 10 projects; published more than 30 sci papers; more than 10 applications for authorization of invention patents; won 8 software copyrights. The company has won one scientific and technological progress award for fluorescence sensors.

● The company successfully broke through the fluorescence method of dissolved oxygen, optical turbidity, chlorophyll, blue-green algae, oil in the water and other series of sensitive components and water quality sensor research, solved the indicator leakage, slow response, low sensitivity and other problems, with a very high cost-effective advantage. We also provide various types of ion sensors such as pH, ORP, salinity, conductivity, TDS, ammonia nitrogen, etc., as well as various types of hand-held, online, 4G multi-parameter analyzers, which can realize real-time continuous monitoring and send the data to the remote control center through wireless transmission, providing a strong support for the management and protection of water resources.

● LuminSens is committed to providing the best service and support to all customers worldwide.

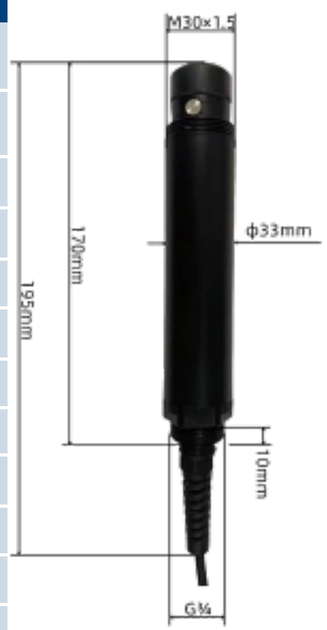
R AND D　PRODUCTION　TEAM　SERVICE

As a leader in the field of environmental protection, Luminsens Marine Technology Ltd. actively participates in domestic and international exhibitions and displays water quality monitoring instruments used in many fields such as water environmental protection, wastewater treatment, industrial process monitoring, aquaculture, food fermentation and pharmaceuticals, etc., based on its excellent product technology and professional services. Attracted the attention of many visitors.

LuminSens Series Dissolved Oxygen Sensors

Dissolved Oxygen sensors utilize fluorescence lifetime technology, which is based on the physics principle of specific substances quenching the active fluorescence. The significant advantages of this fluorescence method of measuring dissolved oxygen are that there is no oxygen consumption during the measurement process and therefore no flow rate limitation,as well as no need for preheating and no electrolyte, free from maintenance and frequent calibration, making the dissolved oxygen measurement more accurate, more stable, more rapid and more convenient. The following two models, B, C, can be selected according to the application environment.

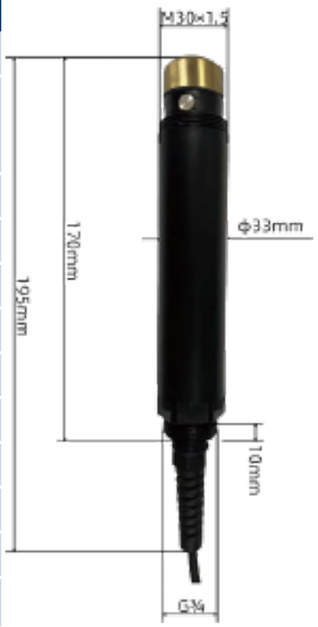
Product name	DO sensor type B
Model	LMS-DO100B
Product Description	Suitable for online monitoring of clean water quality. Temperature built-in or external.
Respond Time	< 120s
Accuracy	±0.1-0.3mg/L
Range	0～60℃、0～20mg/L
Temperature Accuracy	<0.3℃
Working Temperature	0～40℃
Storage Temperature	-5～70℃
Size	φ32mm*170mm
Output	RS-485, MODBUS protocol
Power	9-24VDC（Recommend12 VDC）
Material	Polymer Plastic/316L/Ti



LuminSens Series Dissolved Oxygen Sensors

1. Dissolved oxygen sensors are highly susceptible to measurement inaccuracies and high maintenance costs when used for aquaculture monitoring, primarily due to interference from microorganisms and biofouling caused by secretions and biological attachments.
2. The 100C Sensor features a unique antibacterial design. Its fluorescent membrane surface undergoes a special chemical treatment, forming a protective coating with antimicrobial properties.
3. This protective coating effectively inhibits the attachment and growth of marine organisms on the sensor surface, significantly enhancing the sensor's long-term stability and reliability.
4. The 100C Sensor has gained extensive application experience in various harsh water quality monitoring environments worldwide.

Product name	DO sensor type C
Model	LMS-DO100C
Product Description	Special for aquaculture online, suitable for harsh water bodies; Fluorescent film has the advantages of bacteriostasis, scratch resistance,and good anti-interference ability. The temperature is built in.
Respond Time	> 120s
Accuracy	±0.3mg/L
Range	0～60℃、0～20mg/L
Temperature Accuracy	<0.3℃
Working Temperature	0～40℃
Storage Temperature	-5～70℃
Size	φ32mm*170mm
Output	RS-485, MODBUS protocol
Power	9-24VDC（Recommend12 VDC）
Material	Polymer Plastic



Fluorescence trace dissolved oxygen sensor

① Adopting self-developed fluorescent material, no oxygen consumption, free of maintenance.

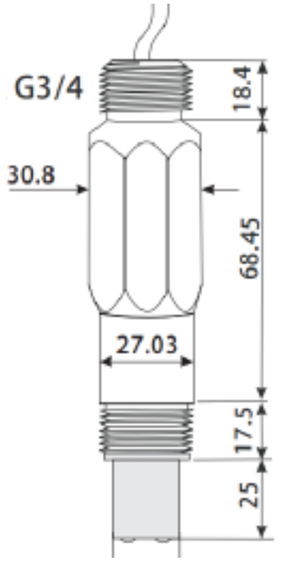
② Long life span, fast response and strong anti-interference ability, with good stability.

③ Can be equipped with fluorescent dissolved oxygen portable analyser or on-line analyser according to the demand, in order to realize the detection of trace dissolved oxygen.

Product name	Fluorescence trace dissolved oxygen sensor
Model	LMS-TDO100
Measurement method	Fluorescent
Range	0~2000ppb，Temperature: 0-50℃.
Accuracy	±1 ppb or 3% of the reading, whichever is greater.
Power	9-24VDC（Recommend12 VDC）
Material	Polymer plastics and 316L
Size	32mm*180mm
Output	RS-485, MODBUS protocol

pH Sensor

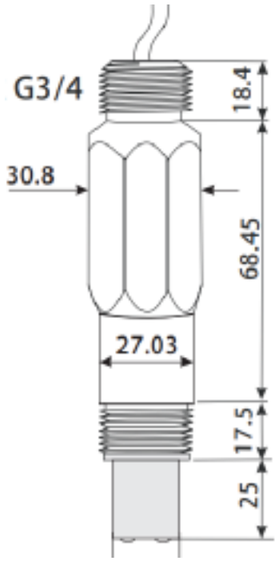
●Isolated power supply design, stable data, strong anti-interference ability	●pH supports automatic temperature compensation/manual temperaturecompensation
●Supports USA/NIST/custom pH, ORP calibration solutions	●Communication: RS485 interface (supports Modbus RTU protocol)
●Flat bubble structure, easier to clean	●Single salt bridge, ceramic sand core liquid junction
●Flat structure not easy to break	●Compact size and easy to use



Product name	pH sensor
Model	LMS-PH100
Measurement method	Ionic electrode
Range	0-14pH
Accuracy	±0.02pH
Power	9-24VDC（Recommend12 VDC）
Material	Polymer Plastic
Size	31mm*140mm
Output	RS-485, MODBUS protocol

ORP Sensor

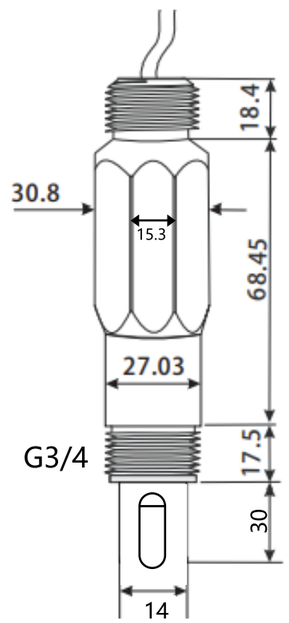
●Isolated power supply design, stable data, strong anti-interference ability	●pH supports automatic temperature compensation/manual temperaturecompensation
●Supports USA/NIST/custom pH, ORP calibration solutions	●Communication: RS485 interface (supports Modbus RTU protocol)
●Flat bubble structure, easier to clean	●Single salt bridge, ceramic sand core liquid junction
●Flat structure not easy to break	●Compact size and easy to use



Product name	ORP sensor
Model	LMS-ORP100
Measurement method	Lonic electrode
Range	±1000.0mV
Accuracy	0.1mV
Power	9-24VDC（Recommend12 VDC）
Material	Polymer Plastic
Size	31mm*140mm
Output	RS-485, MODBUS protocol

Two-Electrode Conductivity Sensor/TDS Sensor

●Isolated power supply design, stable data, strong anti-interference ability	●Corrosion Resistant Diode Graphite Conductivity Sensor
●Adoption of corrosion-resistant housing material	●Constants are stable with good consistency
●Wider measurement range (10us/cm~100ms/cm)	●Single-point calibration technology guarantees 2.5% accuracy over full range
●Built-in high accuracy NTC temperature sensor	●Optional high precision temperature (resolution 0.01℃ accuracy 0.2℃)
●Communication: RS485 interface (supports Modbus RTU protocol)	●Communication rate: 4800/9600(default)/ 14400/19200 optional

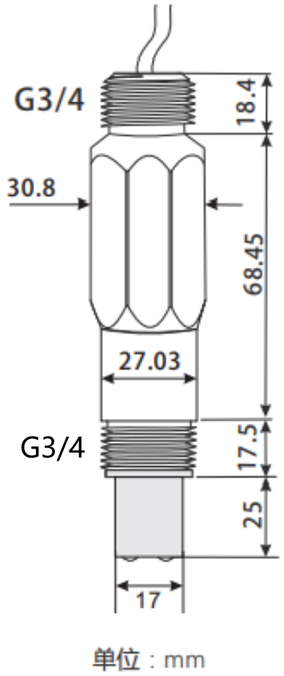


单位：mm

Product name	Two-pole graphite sensor
Model	LMS-TDS1002
Measuring range	Conductivity:(0~60000)uS/cm; (10.00~70.00)mS/cm;
	TDS:(0~60000)ppm
	Salinity: (0~40.00)ppt
Resolution	1uS/cm; 0.01mS/cm; 1ppm; 0.01ppt
Accuracy	+2.5%
Calibration period	>3 months
Shell material	PPS

Four-electrode salinity/conductivity/TDS sensor

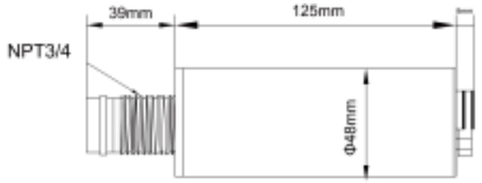
●Isolated power supply design, stable data, strong anti-interference ability	●Measurement range up to 0-500ms/cm, 0-500ppt salinity, 0-500ppt conductivity
●No polarization effect, more accurate measurement	●Corrosion-resistant and highly stable, suitable for continuous monitoring of freshwater and seawater
●High accuracy: conductivity 1.5% of reading; temperature: 0.5°C	●Full-range automatic switching no need to manually shift
●Flat design, easier to clean, good environmental adaptability	●Corrosion-resistant electrode material
●Digital electrode design is easier to use	●Supports standard MODBUS RTU communication protocols



单位：mm

Product name	Four-pole graphite sensor
Model	LMS-SAL1004
Measurement Range	Conductivity: 100–60,000 µS/cm
	Conductivity: 0.1–500 mS/cm TDS: 0–60,000 ppm Salinity: 0–500.00 ppt
Resolution	1 µS/cm, 0.01 mS/cm, 1 ppm, 0.01 ppt
Temperature Range	0–60.0°C, Resolution: 0.1°C
Cell Constant \ Accuracy	0.24 ± 0.02 \ <1.5% Full Scale (F.S.), ±0.5°C
Temperature Compensation	Default: 25.0°C (adjustable at 2%/°C)
Communication Interface	RS485 × 1
Communication Protocol	Compatible with standard MODBUS-RTU protoco

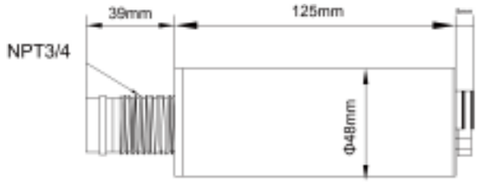
Total Suspended Solid Sensor (TSS Sensor)



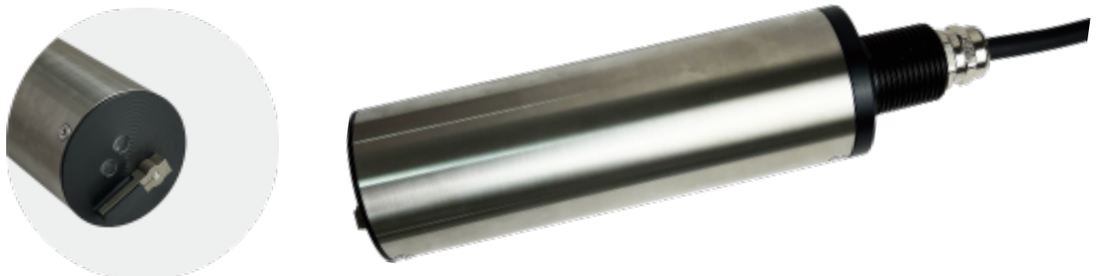
① Adopting 135 degree backlight principle, conforming to ISO7027 international standard.
② Strong anti-interference ability, adopting fiber optic as the main body of light path, unique polishing and light path processing, as well as software algorithms, with small drift, and can be used directly under the sunlight.
③ Low requirements for the distance of the surrounding obstacles, less than 5cm.
④ Able to be free from chromaticity interference, with the function of temperature compensation of the light source.
⑤ Accurate optical path design and manufacturing, low requirements for the distance of the surrounding obstacles, a minimum of only 30mL of standard liquid can be completed calibration.
⑥ With automatic cleaning brush, to prevent contamination, eliminate air bubbles.

Product name	Total Suspended Solid Sensor
Model	LMS-TSS100
Measurement method	135°backlight
Range	0-50000mg/L；0-120000mg/L
Accuracy	Less than ±10% of measured value (depending on sludge homogeneity) or 10mg/L, whichever is greater
Power	9-24VDC（Recommend12 VDC）
Material	316L
Size	50mm*200mm
Output	RS-485, MODBUS protocol

Turbidity Sensor

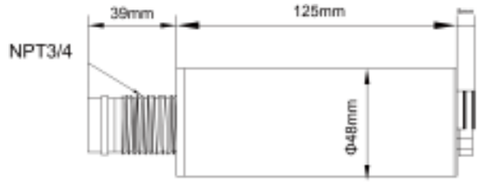


① Adopting 90 degree infrared light scattering principle.
② Strong resistance to external light interference, adopting optical fibre as the main body of the light path, unique polishing and light path processing, as well as software algorithms, with small drift, can be used directly under the sunlight.
③ Low distance requirement to surrounding obstacles, less than 5cm.
④ No chromaticity interference, comes with light source temperature compensation function.
⑤ Precision optical paths are designed and manufactured to require a low distance from surrounding obstacles, with a minimum of only 30 mL of standard solution required for calibration.



Product name	Turbidity Sensor
Model	LMS-TUR100H
Measurement method	90°light scattering method
Range	0-4000NTU
Accuracy	Less than ±10% of measured value or 0.3 NTU, whichever is greater
Power	9-24VDC（Recommend12 VDC）
Material	316L
Size	50mm*200mm
Output	RS-485, MODBUS protocol

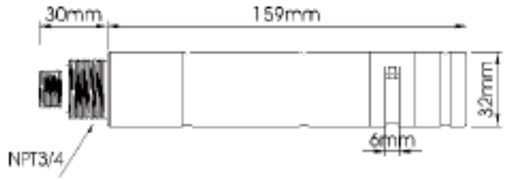
Low Turbidity Sensor



① Adopts 90-degree infrared light scattering principle.
② Strong resistance to external light interference, using optical fiber as the main optical path with unique grinding, optical path treatment, and software algorithms, ensuring low drift and direct use in sunlight.
③ Offers a wide measurement range of 0-100 NTU, suitable for ultrapure water to lightly polluted environments.
④ Immune to colority interference, with built-in light source temperature compensation.
⑤ Precise optical path design requires minimal distance (＜5cm) to surrounding obstacles and only 30mL of standard solution for calibration.
⑥ Equipped with a black light-shielding flow cell to block light interference, reduce bubble generation, and maximize data accuracy.
⑦ Integrated automatic cleaning brush minimizes biological fouling, saving maintenance time and costs

Product name	Low Turbidity Sensor
Model	LMS-TUR100L
Measurement method	90°light scattering method
Range	0.001-100NTU
Accuracy	Less than ± 10% of the measured value or 0.3NTU, take the larger value9-24VDC（Recommend12 VDC）
Power	9 ~ 36VDC
Material	316L
Size	Sensor: 50mm*200mm flow cell: 2470mm×1500mm×110mm
Output	RS-485, MODBUS protocol

COD Sensor



① Digital sensor, digital RS-485 output, Modbus negotiation;

② No reagents, no pollution, more economical and environmentally friendly;

③ Can measure COD, TOC, BOD turbidity and temperature and other parameters;

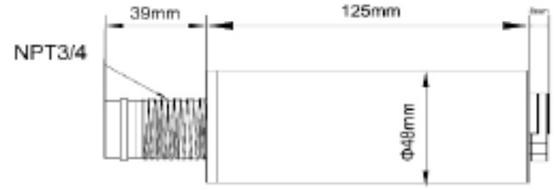
④ Automatically compensate for turbidity interference with excellent test performance;

⑤ With a self-cleaning brush, which prevents biological adherence, the maintenance cycle is more longer

⑥ Simple operation and maintenance, Low failure rate, short test time, response time is generally in tens of seconds, good instrument stability. High reliability, not subject to the interference of chloride ions.

Product name	COD Sensor	
Model	LMS-COD100H	LMS-COD100L
Measurement method	Ultraviolet orption method	Ultraviolet orption method
Range	COD：0.1~1500mg/L ; TOC：0.1~750mg/L BOD：0.1~900mg/L Turbidity: 0.1 ~ 4000 NTU Temperature range: 0 to 50℃	COD: 0.1~500mgL TOC: 0.1~200mg/ BOD: 0.1~300mgL Turbidity: 0.1 ~ 1000 NTU Temperature range: 0 to 50C
Accuracy	<5% equiv.KHP temperature:±0.5℃	
Power	9-24VDC（Recommend12 VDC）	
Material	316L	
Size	32mm * 200mm	
Output	RS-485, MODBUS protocol	

Oil In Water Sensor (OIW)



① The sensor uses a single light source, one UV, which automatically eliminates interference from suspended substances, resulting in more stable and reliable measurement values.

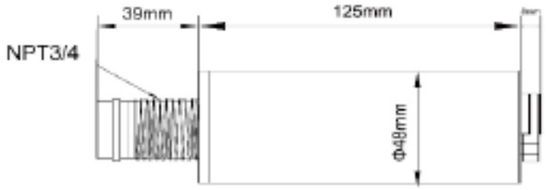
② No reagents, no pollution, more economical and environmentally friendly.

③ Water quality monitoring can be carried out online without interruption.

④ Automatic compensation for turbidity disturbances and an automatic cleaning device provide excellent stability even for long-term monitoring.

Product name	Oil in water sensor
Model	LMS-OIL100
Measurement method	Fluorescent
Range	0-50 mg/L ; 0-5 mg/L ; Temperature: 0-50 ℃
Accuracy	±3%F.S.　Temperature: ±0.5℃
Power	9-24VDC（Recommend12 VDC）
Material	316L
Size	48mm*125mm
Output	RS-485, MODBUS protocol

Chlorophyll Sensor

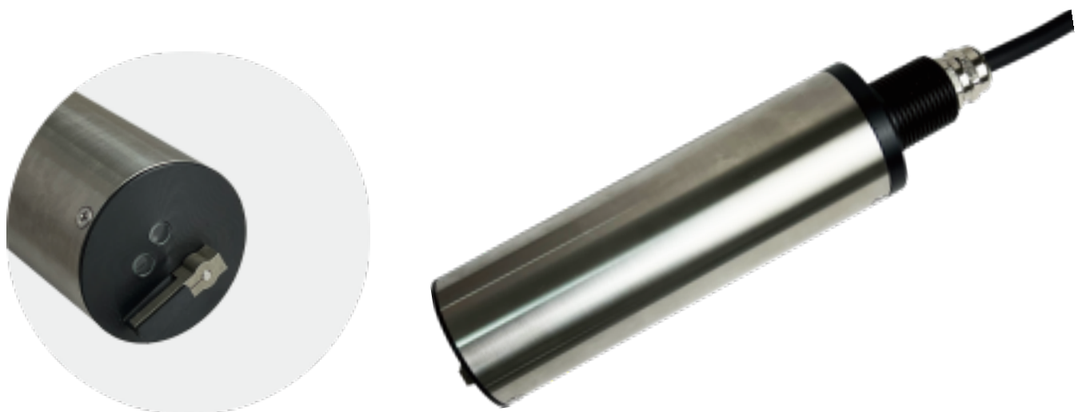


① Using modulation and coherent detection technology to improve the measurement sensitivity and anti-interference performance.

② No reagents, no pollution, more economical and environmentally friendly.

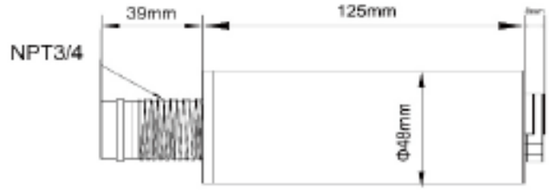
③ On-line uninterrupted water quality monitoring.

④ With an automatic cleaning device, even if the long-term monitoring still has excellent stability.



Product name	Chlorophyll sensor
Model	LMS-CHL100
Measurement method	Fluorescent
Range	0-500ug/L Temperature: 0-50℃
Accuracy	±3%F.S. Temperature: ±0.5℃
Power	9-24VDC（Recommend12 VDC）
Material	316L
Size	48mm*125mm
Output	RS-485, MODBUS protocol

Blue-Green Algae sensor

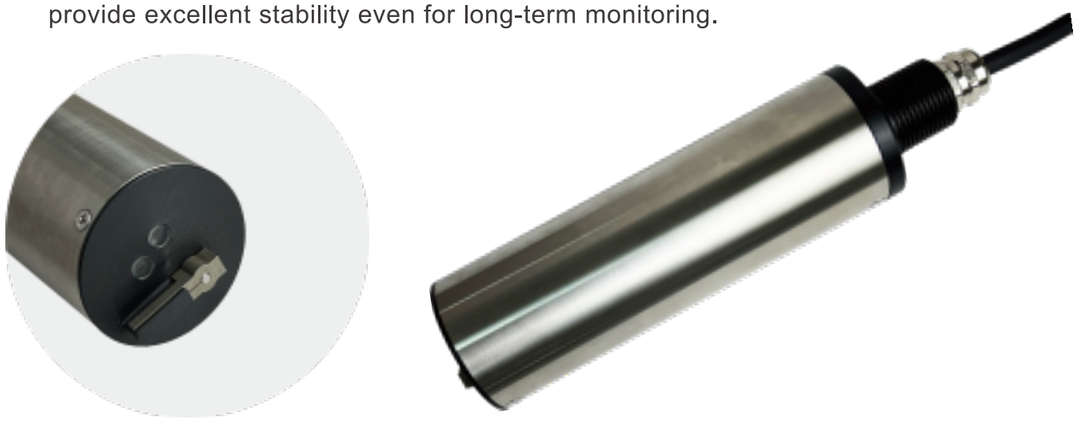


① The sensor uses a single light source, one UV, which automatically eliminates interference from suspended substances, resulting in more stable and reliable measurement values.

② No reagents, no pollution, more economical and environmentally friendly.

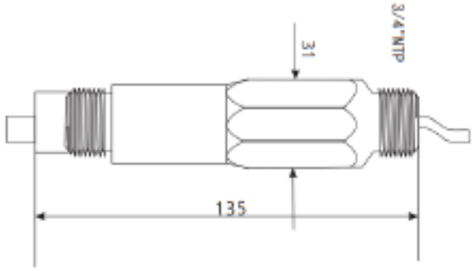
③ Water quality monitoring can be carried out online without interruption.

④ Automatic compensation for turbidity disturbances and an automatic cleaning device provide excellent stability even for long-term monitoring.



Product name	Blue-Green Algae sensor
Model	LMS-BGA100
Measurement method	Fluorescent
Range	0-2000,000 cells/ml Temperature: 0-50℃
Accuracy	±3%F.S. Temperature: ±0.5℃
Power	9-24VDC（Recommend12 VDC）
Material	316L
Size	48mm*125mm
Output	RS-485, MODBUS protocol

Ammonia Nitrogen Sensor NH4-N



① Green, non-polluting, economic and environment

② Custom standard liquid calibration, support for forward and reverse curves

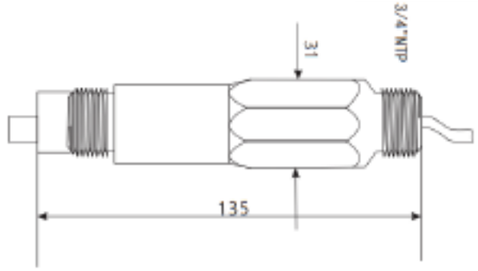
③ environmentally friendly design, can be easily integrated into the water quality monitoring system to meet the different needs of customers, can be directly into the type of installation, applicable to a wide range of surface water, sewage, water and other scenarios of water quality testing.

④ isolation of the power supply design, data stability, anti-jamming ability

⑤ support for the ion type (NH4+, NO_3^- , K+, Ca2+,Cd++,NOx...),) # Specify before ordering#

Product name	NH4 Sensor
Model	LMS-NH4100
Measurement method	Lonic electrode
Range	0 ~ 10000 mg/L
Accuracy	±5%F.S.
Power	9-24VDC（Recommend12 VDC）
Material	Polymer plastics
Size	31mm*200mm
Output	RS-485, MODBUS protocol

Ion Selective Sensor



① Green, non-polluting, economic and environment

② Custom standard liquid calibration, support for forward and reverse curves

③ environmentally friendly design, can be easily integrated into the water quality monitoring system to meet the different needs of customers, can be directly into the type of installation, applicable to a wide range of surface water, sewage, water and other scenarios of water quality testing.

④ isolation of the power supply design, data stability, anti-jamming ability

⑤ support for the ion type (NH4+, NO_3^-, K+, Ca2+Cd++,NOx...),) # Specify before ordering#

Product name	Ion Selective Sensor
Modell	LMS-ION100
Measurement method	Lonic electrode
Range	0 ~ 10000 mg/L
Accuracy	±5%F.S.
Power	9-24VDC（Recommend12 VDC）
Material	Polymer plastics
Size	31mm*200mm
Output	RS-485, MODBUS protocol

Residual Chlorine Sensor

① Three-Electrode Constant Potential TechnologyMinimizes polarization & pH interfer ence for stable measurements in dynamic water conditions.
② Multi-Range Resolution & pH CompensationOffers 0.001-0.1 ppm resolution with auto pH compensation for accurate readings across water chemistries.
③ Modbus RTU IntegrationPre-configured (default address 0x01, 9600 N81) for plug-and-play connectivity to industrial automation systems.
④ Robust Harsh Environment DesignIP68-rated housing and corrosion-resistant elec trodes withstand prolonged submersion, high-pressure flows, and temperatures up to 60℃.
⑤ Low Maintenance & Self-DiagnosticsFeatures auto zero/slope calibration, error code feedback, and optional protective covers to reduce biofouling and manual upkeep.

Product name	Residual chlorine/HCLO
Model	LMS-HCLO100
Measurement method	Three electrode constant potential sensor
Measurement Range	0-20.00 ppm, 0-60.0℃
Measurement Accuracy	± 5.0% F.S, ±0.5 ℃
Material	Polymer plastics
Power Supply Mode	6VDC-30VDC
Power Consumption	< 30mA @12VDC
Output	RS-485, MODBUS protocol

Dissolved Ozone Sensor

① Three-Electrode Constant Potential TechnologyMinimizes polarization & pH interfer ence for stable measurements in dynamic water conditions.
② Multi-Range Resolution & pH CompensationOffers 0.001-0.1 ppm resolution with auto pH compensation for accurate readings across water chemistries.
③ Modbus RTU IntegrationPre-configured (default address 0x01, 9600 N81) for plug-and-play connectivity to industrial automation systems.
④ Robust Harsh Environment DesignIP68-rated housing and corrosion-resistant elec trodes withstand prolonged submersion, high-pressure flows, and temperatures up to 60℃.
⑤ Low Maintenance & Self-DiagnosticsFeatures auto zero/slope calibration, error code feedback, and optional protective covers to reduce biofouling and manual upkeep.

Product name	Dissolved Ozone Sensor
Model	LMS-OZ100
Measurement Method	Three electrode constant potential sensor
Detection Range	0-20.00 ppm, 0-60.0℃
Measurement Accuracy	± 5.0% F.S, ±0.5 ℃
Material	Polymer plastics
Power Supply Mode	6VDC-30VDC
Power Consumption	< 30mA @12VDC
Output	RS-485, MODBUS protocol

Dissolved Carbon Dioxide Sensor

① Based on NDIR infrared absorption principle, with patented optical cavity and dual-channel detector for spatial dual-path reference compensation.

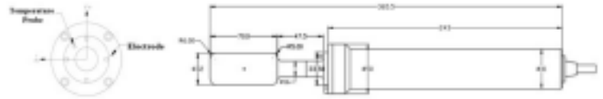
② Multiple output modes: UART, IIC, analog voltage, PWM (frequency output).

③ Convection diffusion ventilation method and detachable protective cover for accelerated gas diffusion and easy maintenance.

④ Waterproof structure with manual calibration function (MCDL pin) for field zero adjustment.

Product name	Dissolved Carbon Dioxide Sensor
Model	LMS-CO2100
Measurement Method	NDIR Infrared Absorption
Detection Range	2000/10000/50000 PPM (other ranges available)
Accuracy	≤±5% F.S.
Working Voltage	DC 5V
Preheating Time	120s
Output Signal	UART / Analog Voltage / RS485
Material	Polymer plastics

Marine Current Meter



Our marine current meter is designed with the cable system with Faraday'sprinciple of electromagnetic induction, It measures ocean current parameter's bymeasuring the induced electromotive force generated when seawater flows through the magnetic field.

Equipped with an electronic compass, it can accurately measure azimuth,.elevation, and roll angles.

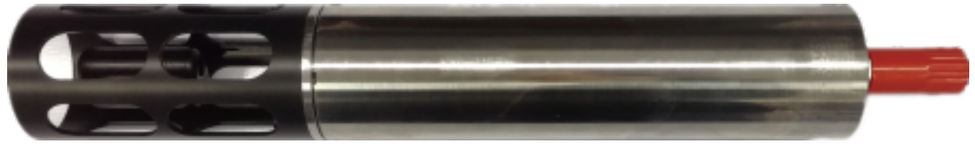
The shell is made of titanium alloy that is resistant to friction, impact, andcorrosion, and can be used up to a maximum depth of 1500 meters.

Product name	Marine Current Meter
Model	LMs-Current-100
Marine Current Meter	Principle:Thermistor temperature measurementVelocity of flow: Electromagnetic InductionFlow direction: Directional Current Meter
Range	Temperature:-30C-459CTelocity offlow: 0-500 cm/sFlow direction:0~359.9° Voltage:8-24 VDC(55 mA[12 V)
Accuracy	Temperature: +0.050CVelocitvofflow: +l cm/s or +2% Measured ValueFlow direction: +2°
Resolution	Temperature:0.0010CVelocityof flow: 0.l cm/sFlow direction: 0.1°
Material	Titanium Aloy
Size	ф50 mm*365 mm
Maximum Depth	1500 m
IP Grade	IP68
Weight	1 kg

Temperature and Salt depth Sensor

The LMS-CTD-100 series electrode-type temperature and salt depth device is an online/-self-capacitive sensor for measuring conductivity, temperature, and depth. The sensor has been produced nationally.

The core unit of the conductivity probe of LMSWYS series electrode-type temperature and salt depth device adopts seven-electrode quartz-based diamond composite material; The temperature probe adopts diamond-based thermally conductive filler; The pressure sensor realizes hardware temperature compensation and software temperature compensation.



Product name		Temperature and Salt depth Sensor		
Parameters	Probe Type	Measuring range	Measurement accuracy	Resolution
Temperature	Thermistor	-2~40°C	±0.002°C	0.0001°C
Electrical conductivity	7 electrode conductivitycell	0~70mS/cm	±0.003mS/cm	0.0001 mS/cm
Pressure	Piezoresistive type	0~600m/1000m/6000m	±0.05%F.S	0.0001m

Self-Cleaning Module

① Designed for dissolved oxygen/pH/salinity sensors to clean fluorescent film surfaces.
② Fixed-time activation: 6-hour auto-clean cycle: 3 clockwise rotations prevent algae adhesion and biofouling.
③ Reduces manual maintenance, ensures data accuracy, and minimizes damage risks.
④ Available in two models as needed: LMS-AC100P (wired, cable-powered), LMS-AC100 (battery: 3×AA alkaline, ~6 months runtime).
⑤ Easy installation: Rotate the module onto the probe until the brush touches the probe membrane surface.

Product name	Self-Cleaning Module
Model	LMS-AC100 (Battery Version): 3 AA alkaline batteries (included) LMS-AC100P (Online Version): Cable-powered
Material	Polymer plastics
Battery Life (LMS-AC100)	Approximately 6 months
Operating Frequency	Activates once every 6 hours after power-on, with 3 clockwise rotations per cycle
Replaceable Component	Cleaning brush head (requires regular replacement)
Warranty Period	1 year

Portable Fluorescence Dissolved Oxygen Analyzer

① The fluorescent membrane of dissolved oxygen probe can be replaced.
② One key measurement, press the measurement key, observe the data at any time.
③ Night backlight, clearly visible at night.
④ Long standby time, the device automatically shuts down after the test is completed.
⑤ The display adopts ink screen. Looking at this screen is like reading paper books with eye protection and clear visible under strong light.

Product name	Portable Fluorescence Dissolved Oxygen Analyzer
Model	LMS-PA100
Measurement method	Fluorescence
Range	0-20mg/L
Accuracy	DO: ±1~3%
Power	< 0.5 W Power supply 7.5V ， 5 batteries
Material	Polymer plastics
Size	100mm*204mm
Output	RS-485, MODBUS protocol

Portable Multi-Parameter Analyzer

① Multi-functional host， Supports highly customizable parameters,Can be optionally equipped to connect with various LuMinsens sensors,Features automatic sensor recognition.
② Separate compartment design for all sensors,Failure of one sensor does not affect the others.
③ Strong compatibility,Supports future Luminsens products.
④ All calibration parameters reside in the individual sensors,All sensors support RS485 Modbus for convenient maintenance and calibration.
⑤ Optional complete protective storage tube,Prevents sensor damage from bottom collisions,Reduces interference from aquatic organisms directly covering sensors.

Product name	Portable Multi-parameter Water Quality Analyzer (It can be connected with 1 to 12 sensors , depending on the customer's requirements.)
Model	LMS-PA100P
Size	220mm*120mm*100mm
Optional Parameters	Do、Trace DO、PH 、ORP、EC/TDS 、Salinity/EcTos 、COD、TSS 、Turbidity 、Carbon Dioxide、Ammonla Nitrogen、Ion Selective、Oil in water、Chlorophyll 、Blue Green Algae、Residual Chlorine
Power	Sensors: DC 12~24V; Analyzer: Rechargeable lithium battery with 220v to dc charging adapter
Temperature	Working Conditions 0-50℃ Storage Temperature -40~85℃;
Cable length	5m, can be extended according to user need
Sensor Interface Supports	RS-485, MODBUS protocol

Online Multi-Parameter Analyser

① 7-inch colour touch screen, simple operation interface, easy to learn, low maintenance;
② sensors plug and play; electrode installation, replacement of fast and convenient;
③ Modbus RS485, such as a variety of data transmission options, and has a data storage function.
④ up to 5 sensors can be connected to any ofour company at the same time, toimprovethe integration, reduce operating and maintenance costs; (or custom) (or other number, can be greater than 5)
⑤ strong versatility, all digital sensor interface common, analogue sensors according to different sensor types can be configured with different modules;
⑥ provide OEM custom services

Product name	Online water quality multi-parameter analyzer
Model	LMS-OA200T
Display Output	7-inch touch screen
Power supply	AC power supply: 220 VAC
Output	MODBUS RS485 digital communication
Storage temperature	-20 to 70°C
Size	180mmx230mmx100 mm (height x width x depth)
Weight	About 1.7 KG
Main material	Plastic shell, fully transparent cover

Water Quality Monitoring Buoy

Product introduction

This buoy automatically monitors sea parameters like temperature, humidity, conductivity, dissolved oxygen, wind speed, gusts, rainfall, and wave height. Data is transmitted via Beidou satellite with >99% success rate. Equipped with Beidou/GPS positioning, it supports long-term, fixed-point operation. Powered by solar panels and batteries, it ensures 24/7 functionality, even in cloudy weather for specified durations.

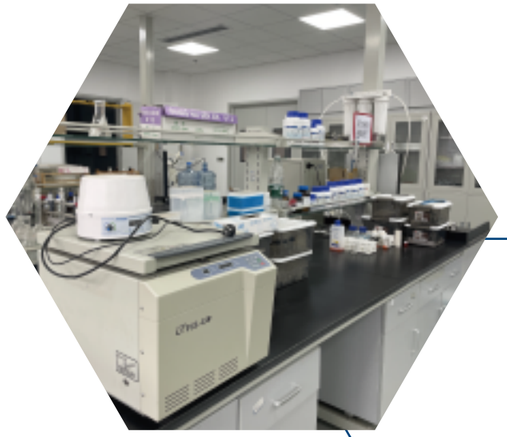
Products Description

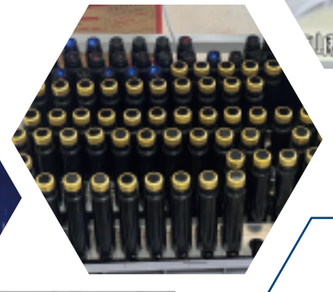
The buoy consists of four key units:

① Floating Unit– Cylindrical floats made of polyethylene, polyurea, or stainless steel, typically in red or yellow.
② Power Supply Unit– Solar panels, brackets, and batteries for continuous operation.
③ Data Transmission Unit – Collection modules (4G/5G, Beidou, wireless bridges, microwave, or VPNs) to relay data to the client's platform.
④ Monitoring Unit** – Sensors for pH, DO, conductivity, nutrients, waves, currents, oil-in-water, radiation, and surface/underwater cameras.

Product name	Water Quality Monitoring Buoy
Model	LMS-BY100
Customization Supported	OEM, ODM, OBM
Material	PE/EVA
Application Scope	Ocean, Inland Rivers, Lakes and Reservoirs
Monitoring Parameters	pH, DO, EC, Turbidity, ORP, Chlorophyll, etc.
Cloud Platform Software	Cloud platform for remotely viewing data on PC and mobile phones
Data Communication	RS232/RS485, Data Communication
Power Supply	4 x 12V Solar Panels, total power reaching 80W, or other specifications
Dimensions	700*700*835mm - other sizes available

Company fotos





Patents and certifications