Azura Technology

Digital and Intelligent Environmental Protection Series Product Catalog

Zhejiang Zhonghuan Azura Technology Co., Ltd.



Azura Technology

COMPANY PROFILE

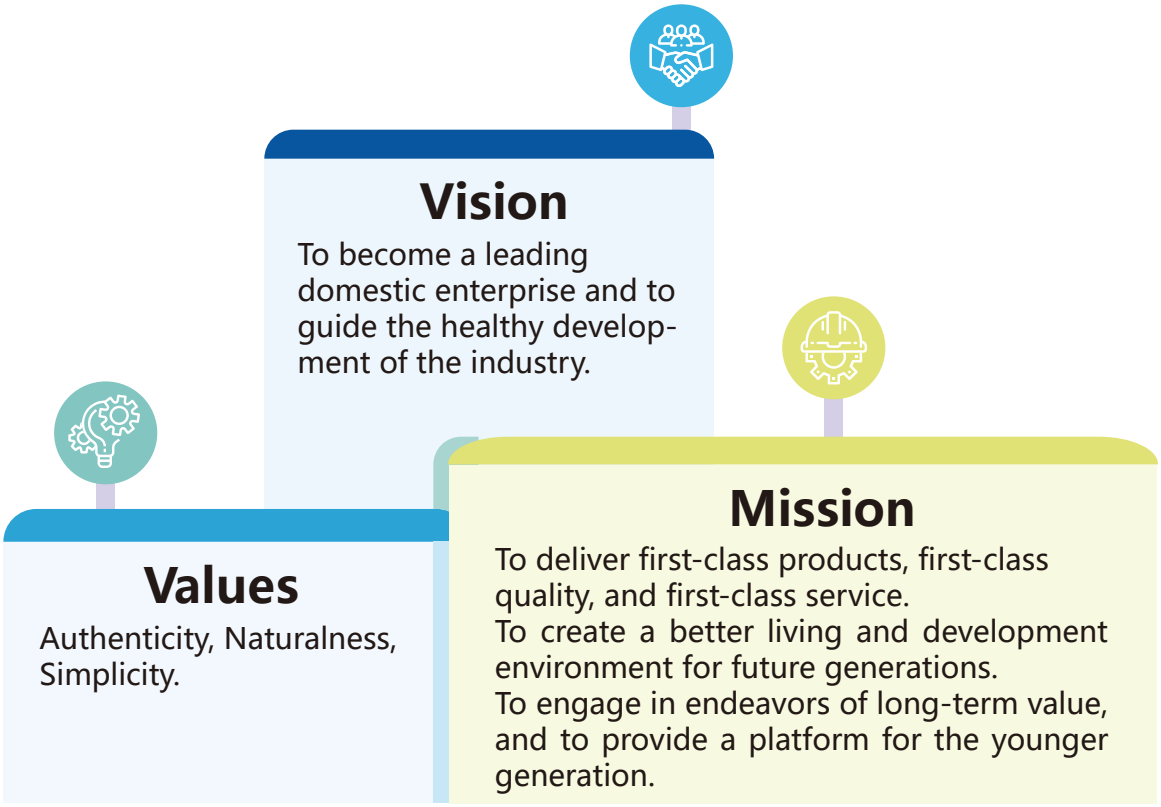
Established in **2015**	Service coverage: **16** provinces	Technical Capabilities: Technical team personnel account for over **70%**	Qualifications: Over **20** qualifications and certificates

Zhejiang Zhonghuan Azura Technology Co., Ltd. was founded in Ningbo National Hi-Tech Industrial Development Zone in February 2015. It is a specialized provider of refined environmental protection management and control services.The Company focuses on three core business segments: the marine technology division centered on Conductivity-Temperature-Depth (CTD) instrumentation, the environmental protection division centered on data infrastructure, and the online monitoring system division centered on Operation and Maintenance (O&M) services.

With with over 70% R&D laborforce, the Company has successfully enabled its partner institutions to achieve environmental management upgrades.Its service coverage spans 16 provinces nationwide, encompassing ecological and environmental management authorities, industrial parks, pollution source enterprises, and third-party environmental protection service agencies.The core product technologies of the Company have attained international advanced levels and are widely applicable in fields such as marine scientific research and marine environmental protection. Leveraging a professional technical team and a mature service system, the Company upholds the mission of "Delivering First-Class Products, First-Class Quality, and First-Class Service," contributing to the development of a Green China and driving the environment sector toward higher standards.



COMPANY CULTURE



CORE BUSINESS

Conductivity-Temperature-Depth Profiler (CTD)

Focused on marine engineering sensing equipment, we feature CTD profilers as our flagship product and provide high-precision hydrographic measurement solutions for ocean research and environmental monitoring.

Environmental Protection Informatization Centered on Data Foundation

The Company integrates all-domain environmental data and intelligent analysis to continuously provide efficient data enablement for ecological and environmental supervision and governance.

Online Monitoring System Centered on Operation and Maintenance Services

The Company focuses on full lifecycle operation and maintenance (O&M) support, providing clients with stable, efficient, and reliable online monitoring system services.

HONOUR

- National High-tech Enterprise
- National Technology-based SME
- Evaluation Standards of Software Enterprises Encouraged by the State
- Zhejiang High-growth Technology -based SME
- Gazelle Enterprise (of Ningbo National Hi-Tech Industrial Development Zone)
- Technologically advanced SMEs(in Ningbo)
- Excellent Service Provider for Smart City Development of Ningbo
- Ningbo Service Industry Top Ten "Innovation Star" Enterprise
- Excellent "Manufacturing Plus Internet" Public Service Platform of Ningbo



CERTIFICATE

- CMMI Level 3 Certificate
- Certification for ISO 9001
- ISO 45001 Occupational Health and Safety Management System Certification
- ISO 14001 Environmental Management System Certification
- Over 40 Software Copyrights 11 Invention Patents
- ISO 27001 Information Security Management System Certification
- China Information Technology Service Standards (ITSS) Operation and Maintenance Level 3
- China Inspection Body and Laboratory Mandatory Approval
- ISO 20000 Information Technology Service Management System Certification





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Smart pH sensor RL042B

RL042B Intelligent pH Sensor, equipped with an RS-485 communication interface and standard Modbus protocol, is a fundamental digital pH sensor designed for routine water quality monitoring. The product features an industrial-grade online pH electrode, which supports independent electrode replacement for convenient maintenance. The electrode adopts a spherical structure design, which effectively expands the measurement contact area compared with traditional planar structures, enabling faster response and higher measurement accuracy. The sensor has a built-in temperature detection unit that enables automatic temperature compensation, making it suitable for various online long-term monitoring scenarios with stable and reliable performance.



Product Highlights

- Built-in temperature sensor for automatic temperature compensation;
- 3/4" G-type upper and lower mounting thread design for easy installation;
- Low power consumption with internal circuit anti-interference design;
- Double salt bridge and dual high-impedance design for strong anti-interference and stable data;
- RS-485 communication interface, standard Modbus protocol, easy for system integration;
- Replaceable electrode, suitable for complex water conditions, with electrode customization available.

Applications

RL042B Intelligent pH Sensor is widely used in surface water, municipal wastewater, industrial effluent, sewage treatment, waterworks, industrial processes, aquaculture, and other fields.











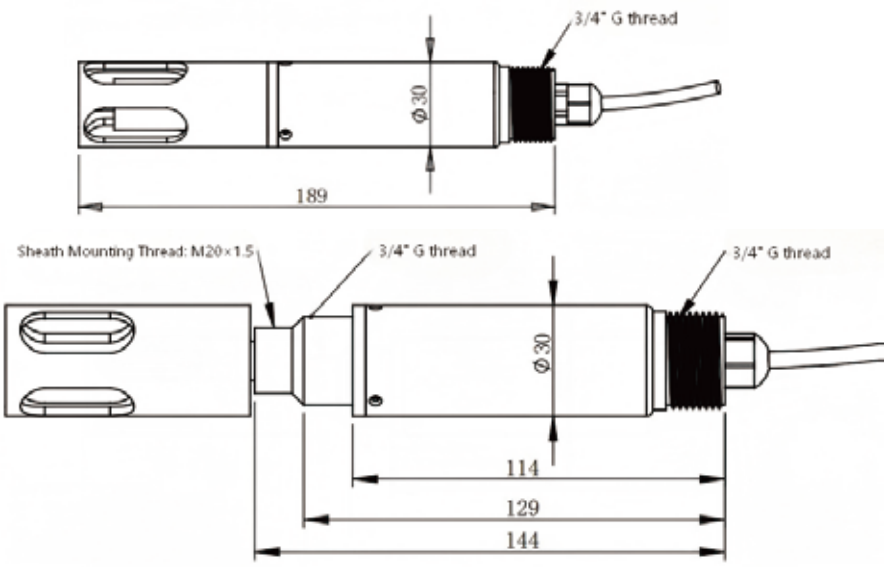


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Technical Specifications

Range	0~14pH	Accuracy	±0.1pH
Measurement method	ISE method（ion selective electrode）	Resolution	0.01pH
Calibration method	Two-point calibration	Response time	10 seconds T90
temperature compensation	Automatic Temperature Compensation (NTC)	Power supply	12 or 24VDC ±10%,10mA
Measurement	Diameter 30mm; Length 189mm	Level of protection	P68;Water depth 20 metres (Other Customizations)
Service life	Sensor 1 year or more	Sensor housing material	POM Customisable
Output signal	Supports RS-485, MODBUS/RTU protocol		
Working conditions	Default 0～65℃;<0.2MPa; other customisations		

Product Dimensions



Zhejiang Zhonghuan Azura Technology Co., Ltd.
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For details, contact customer service

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Smart conductivity sensor RL032B

RL032B Smart Conductivity Sensor, professionally equipped with an RS-485 communication interface and standard Modbus protocol, is a digital intelligent sensor designed for routine water quality monitoring. The sensor adopts a dual-electrode graphite structure, with a planar electrode measurement surface that facilitates easy cleaning and maintenance while providing a large effective measurement area, enabling rapid response and higher measurement accuracy. The sensor features a built-in temperature detection element that supports automatic temperature compensation, meeting the requirements for stable long-term online monitoring.



Product Highlights

- Drinking water / surface water / various water supplies / industrial water treatment;
- 2-electrode graphite contact design, corrosion-resistant and easy to clean;
- 3/4" G-type upper and lower mounting thread design for easy installation;
- Built-in temperature sensor for automatic temperature compensation;
- RS-485 communication interface with standard Modbus protocol for easy integration;
- Low power consumption with internal circuit anti-interference design.

Applications

RL032B Smart Conductivity Sensor is widely used in surface water, municipal wastewater, industrial effluent, sewage treatment, waterworks, process control, and other fields.











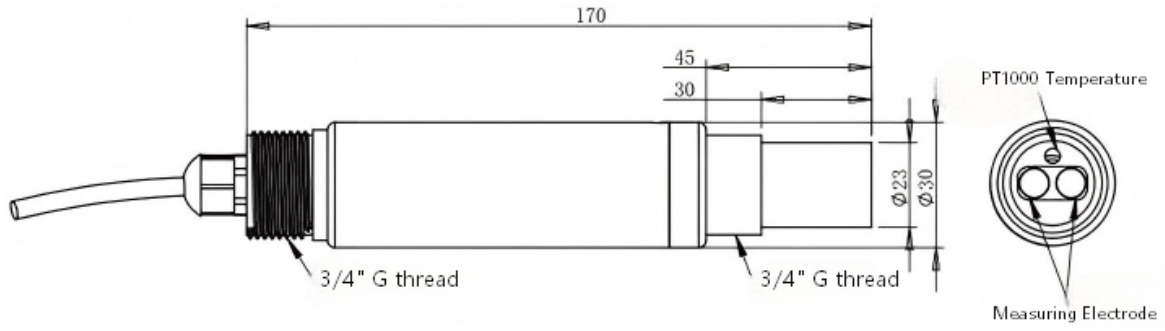


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Technical Specifications

Range	0～2000μS/cm、0~5000μS/cm；cell constant1.0		
Operating conditions	0～65℃; <0.6MPa; high-temperature conductivity customization available		
Measurement method	2-electrode contact method	Accuracy	±1.5%F.S.
Resolution	1μS/cm	Calibration method	two-point calibration
Response time	10 seconds T90	temperature compensation	Automatic temperature compensation(Pt1000)
Dimensions	Diameter 30mm; length 170mm	Power supply	12 or 24VDC ±10%, 10mA
Service life	Sensor 3 years or longer	Ingress protection rating	IP68; water depth 60m; other customizations available
Cable length	10m (default), customizable	Sensor housing material	POM; PEEK; customizable

Product Dimensions



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Intelligent ammonia nitrogen sensor RL052B

RL052B Intelligent Ammonia Nitrogen Sensor adopts an RS-485 communication interface and standard Modbus protocol, serving as an intelligent digital sensor. As a fundamental digital ammonia nitrogen sensor for routine water quality monitoring, it features an industrial online structure and consists of a PVC membrane ammonium ion selective electrode, capable of specifically detecting ammonium ion concentration in water with rapid response and accurate measurement. The sensor is equipped with a built-in temperature sensing unit that supports automatic temperature compensation, meeting the operational requirements for stable long-term online monitoring.



Product Highlights

- Built-in temperature sensor for automatic temperature compensation;
- 3/4" G-type upper and lower mounting thread design for easy installation;
- Innovative replaceable ammonium ion membrane head, reducing maintenance costs through membrane head replacement;
- Low power consumption with internal circuit anti-interference design;
- Optional addition: pH and potassium ion compensation to reduce measurement interference.

Applications

The RL052B intelligent ammonia nitrogen sensor is suitable for online and portable monitoring of municipal sewage, domestic sewage, agricultural wastewater, industrial wastewater, process control, nitrification treatment and aeration tanks, facilitating integrated applications such as monitoring buoys, monitoring rafts and monitoring vessels.


Municipal wastewater


Agricultural wastewater


Industrial wastewater


Aeration tank


Monitoring pontoon



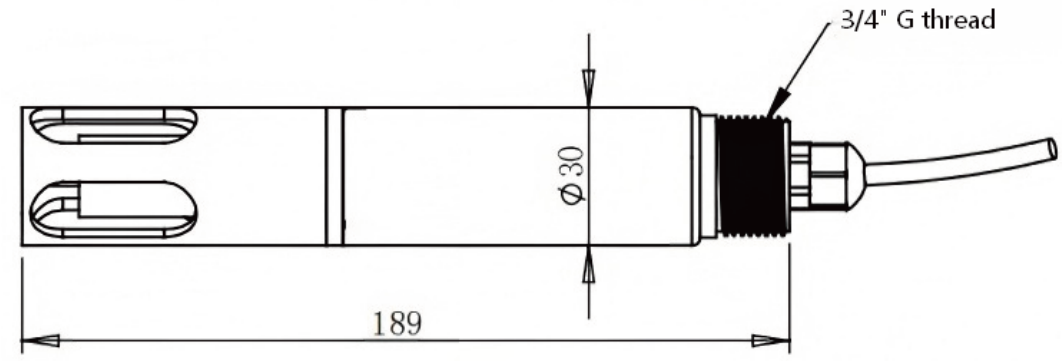
Monitoring vessel

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Technical Specifications

Range	0 ~ 10.0mg/L or 0 ~ 100.0mg/L (pH range 4 ~ 10)		
Resolution	0.01mg/L (0 ~ 10.00mg/L) or 0.1mg/L (0 ~ 100.0mg/L)		
Measurement method	Coated ion selection method	Accuracy	±5%F.S. or ±3mg/L, whichever is greater
Temperature compensation	Automatic temperature compensation (Pt100)	Operating conditions	0 ~ 40℃; <0.2MPa
Calibration method	Two-point calibration	Response time	30 seconds T90
Level of protection	IP68, water depth 20metres	Power supply	12 or 24VDC ±10%, 10mA
Cable length	10m (default), customizable	Service life	Sensor ≥1 year; membrane head 6 months
Sensor housing material	POM; customizable	Output signal	Supports RS-485, Modbus/RTU protocol

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Smart COD sensor RL062B

RL062B Smart COD Sensor, equipped with an RS-485 communication interface and standard Modbus protocol, is a high-performance intelligent digital sensor. The product is based on the ultraviolet absorption principle and developed with years of industry application and development experience. It features a compact and streamlined overall structure with built-in self-cleaning functionality and an anti-corrosion treated probe surface. Detection response is rapid, and no chemical reagents are required throughout the entire process. The sensor adopts an imported deep ultraviolet UV LED cold light source with a long operational life, paired with a 550 nm compensation light source to effectively eliminate measurement interference caused by turbidity and chromaticity of water samples, further enhancing equipment operational reliability.



Product Highlights

- No reagents required-pollution-free, economical, and environmentally friendly;
- Compact size for easier installation, enabling uninterrupted online water quality monitoring;
- Measures COD, TOC, turbidity, and temperature-no chemical reagents or sample digestion required;
- Integrated cleaning brush to prevent biofouling;
- RS-485 communication interface with standard Modbus protocol for easy integration;
- Imported UV254 LED cold light source with long service life and minimal drift;
- Automatic compensation for turbidity interference.

Applications

RL062B Smart COD Sensor is widely used in surface water, drinking water, municipal wastewater, agricultural wastewater, industrial effluent, sewage treatment, and other fields.











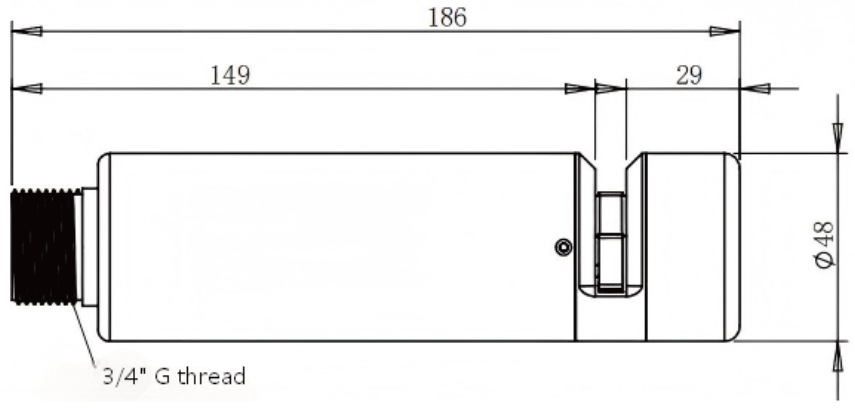


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Technical Specifications

COD Range	0.3 ~ 100mg/Lequiv. KHP; 0.3 ~ 370mg/Lequiv. KHP; 0.3 ~ 500mg/Lequiv. KHP		
Measurement method	UV 254 dual-wavelength ultraviolet absorption method	COD accuracy	±5%F.S. equiv. KHP
COD resolution	0.1mg/L equiv. KHP	Turbidity range	0 ~ 100NTU
Repeatability	±1%F.S.equiv. KHP	Operating conditions	0.1 ~ 50℃、<0.1MPa
Calibration method	two-point calibration	Response time	T90 ≤ 10s
Ingress protection rating	IP68, water depth 10m	Flow velocity	Less than 3m/s
Sensor housing material	316L, quartz glass	Cable length	10m(default), customizable
Power supply	12VDC±10%, 15mA; 200mA when cleaning brush is rotating		
Dimensions	Diameter 48mm; length 186mm; optional protective cover available		
Service life	Sensor 3 years or longer, cleaning brush system 18 months or longer		

Product Dimensions



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AZU-M400 pipeline water quality monitoring instrument

Product Overview

The pipeline water quality monitoring instrument is a precision instrument specifically designed for real-time multi-parameter monitoring of water quality in pipelines. It can simultaneously perform accurate measurement of key water quality parameters including pH, conductivity, ammonia nitrogen, chemical oxygen demand (COD), suspended solids, and others, enabling users to promptly assess water quality conditions, effectively prevent and control water quality pollution issues, and ensure the safety and stability of pipeline water quality.

The data acquisition unit is an automated device with on-site real-time data acquisition and processing functions, featuring real-time acquisition, automatic storage, instant display, instant feedback, automatic processing, and automatic transmission capabilities, thereby ensuring the authenticity, validity, real-time availability, and usability of on-site data.



Product Highlights

- Suitable for long-term operation in field environments, with stable measurement and strong anti-interference capability;
- Integrated design with small size, lightweight construction, flexible installation, and user-friendly operation。
- Monitors multiple parameters, with capacity to accommodate up to six sensors simultaneously;
- Supports long-term online operation, rapid on-site measurement, emergency monitoring, and groundwater monitoring;
- Measured data is transmitted to the IoT platform via RS-485 or 4G；
- Compact internal structure: suitable for installation in space-constrained locations;
- Probes can be freely combined and independently replaced, featuring plug-and-play functionality and remote operation capability；

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Technical Specifications

Smart Data Collector Parameters

Product Name	AZU-M400 Pipeline Water Quality Monitoring Instrument	Supported Carriers	China Mobile 4G, China Unicom 4G, China Telecom 4G
Power Supply	12V~24V	SIM Interface	IoT SIM card
RS485 Interface	Default baud rate (bps): 9600	Operating Temperature	-20°C~60°C
Storage Temperature	-40°C~85°C	Operating Humidity	5%~95°%(non-condensing)
Technical Specifications	LTE-TDD: Max 8.96Mbps(DL)/ Max3.1Mbps(UL) LTE-FDD: Max 10 Mbps (DL) / Max 5 Mbps (UL)	Supported Frequency Bands	LTE-TDD:B34/B38/B39/B40/B41 LTE-FDD:B1/B3/B5/B8
Output Power	LTE-TDD:23dBm+2.7dB LTE-FDD:23dBm+2.7dB	Software Functions	Network Protocol: TCP, etc. RS-485 Interface Protocol: Customized according to client protocol
Sleep Power Consumption	⩽50ua@7.2v	Communication Method	2G/4G communication, up to 4 platforms supported
Operating Power Consumption	⩽20mA@7.2v	Power Input	6-20VDC
Communication Function Power	⩽150mA@7.2v	Interfaces	1×RS-485, 1×digital input
Configuration Method	Local serial port configuration, remote server configuration	Transmission Frequency	Acquisition and transmission frequency configurable, up to one measurement per minute

Communication Protocols: Supports TCP, UDP, MQTT, Alibaba Cloud IoT, HTTP Passthrough

Multi-Parameter Water Quality Sensor Parameters

Monitored Parameters	pH, turbidity, temperature, conductivity, dissolved oxygen (customizable)	Warm-up Time	⩽60s
Measurement Accuracy	⩽2%F.S.	Zero Drift	⩽1%/year
Response Time	T90<30s	Power Supply	12~24V DC
Ingress Protection Rating	IP55	Output Method	RS-485(Modbus/RTU)

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