Azura Technology

Specialized Provider of Precision
Ecological and Environmental Management Solutions





Azura Technology Product Catalog

AbyssPro CTD Profiler

Azura Technology

Specialized Provider of Precision Ecological and Environmental Management Solutions

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COMPANY PROFILE



Service Coverage:

16 Provinces

Credentials:

20+ Certifications

Technical Team:

70%+ Engineers

Zhejiang Zhonghuan Azura Technology Co., Ltd., founded in 2015, is a technology-oriented enterprise specializing in ecological and environmental monitoring and precision management. Headquartered in Ningbo National High-tech Industrial Development Zone, the company also operates a dedicated manufacturing base.

Azura Technology focuses on three core areas: construction and operation & maintenance (O&M) of online monitoring systems, environmental data infrastructure and AI-driven decision support, and environmental monitoring sensor R&D and application. With a technical workforce exceeding 70%, the company provides integrated services covering design and development, technical consulting, installation and commissioning, professional training, and system O&M.

Azura's services cover 16 provinces across China, serving ecological and environmental authorities, industrial parks, point-source polluting enterprises, and third-party environmental service providers. In marine environmental monitoring, the company develops and deploys monitoring sensors and instruments for applications including marine scientific research, marine environmental monitoring, water environment surveys, and long-term water body observation. Selected core product technologies meet international advanced standards.

Guided by its mission of "First-Class Products, First-Class Quality, First-Class Service," Azura Technology remains committed to technological innovation and customer needs, contributing to the modernization of ecological and environmental governance and the development of a Greener China.





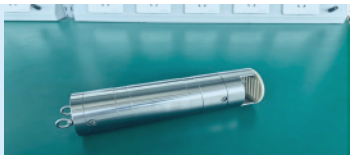
Corporate Culture

- Values: Authenticity, Simplicity, Naturalness;
- Vision: To become a leading domestic enterprise and drive the healthy development of the industry;
- Mission: To deliver first-class products, first-class quality, and first-class service; to create a better living and development environment for future generations; to pursue endeavors of lasting value; and to provide a stage for young talent.

Environmental Monitoring Sensor Business

Flagship Product:

The AbyssPro 7000 high-precision CTD Profiler has passed multiple qualification tests. It is widely deployable in marine scientific research, ecological and environmental protection, and beyond, providing reliable data support.



Core Strengths:

Modular, scalable water quality sensing — from single to multi-parameter monitoring. Customizable sensor mix, mounting, and communication per application. Supports multi-parameter acquisition, storage, and 4G upload.



System Development:

Ruilan Technology will continue refining its environmental monitoring sensor portfolio to achieve real-time acquisition and precise sensing of multiple environmental parameters.



ENTERPRISE HONOR

Credentials

▶ Corporate Certifications













▶ Patent Certificates



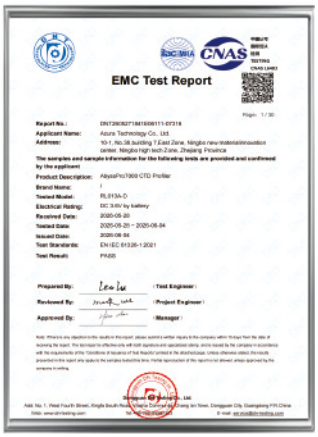
Accreditations



RoHS Certification



Management System Certifications



EMC Certification



Management System Certifications

ISO 9001 QMS Certification









Inspection Report



Vibration Test



Salt Spray Test



Low Temperature Test



High Temperature Test

AbyssPro7000 CTD Profiler



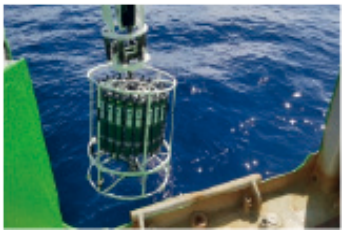
Product Overview

AbyssPro 7000 CTD Profiler is a high-precision deep-sea profiler for synchronous measurement of temperature, conductivity, and depth. It features fast response, stable readings, and low power consumption. Data can be output in real time or saved to internal storage for later retrieval. With its compact design and long-life battery, it integrates easily into buoys, moorings, seafloor bases, landers, and other ocean observation platforms for long-term deployment.

Technical Specifications

Parameter	Specification	Parameter	Specification
Housing Material	Titanium alloy	Maximum Pressure Rating	70MPa
Temperature Range	-5~35°C	Temperature Accuracy	±0.001°C
Temperature Resolution	0.0001°C	Temperature Stability	0.0001°C/month
Conductivity Range	0~70mS/cm	Conductivity Accuracy	±0.003mS/cm
Conductivity Resolution	0.0001mS/cm	Conductivity Stability	0.0017mS/cm per month
Pressure Resolution	±0.01%FS	Pressure Resolution	0.001%FS
Pressure Stability	0.1%FS/year	Sampling Rate	25Hz
Supply Voltage	5~36V	Data Acquisition Method	RS485、RS232、USB
Dimensions	∅49mm × 186.5mm	Weight / Weight in Water	0.8KG/0.4KG

Applications



Marine Monitoring



Hydrographic Survey



Buoy Observation



Marine Engineering Monitoring

Product Advantages

In-situ measurement
No separate sampling required — multi-parameter measurement completed directly on-site in the target water body.

Low-power design
Measurement Current: < 120 mA; Power Consumption: < 432 mWMTBF: > 50,000 hours.

Flexible communication
Measurement Current: < 120 mA;Power Consumption: < 432 m;WMTBF: > 50,000 hours.

Independently developed
Supports RS-232, RS-485, and USB interfaces, with protocol customization available upon reques.

AbyssPro600 CTD Profiler



Product Overview

AbyssPro 600 CTD Profiler is a high-precision profiler designed for shallow-water, coastal, harbor, river, and lake observation. It synchronously measures temperature, conductivity, and depth with high accuracy and stability, meeting the demands for high-resolution and reliable hydrographic data acquisition in shallow-water environments. Its compact, low-power design supports RS-485, RS-232, and USB interfaces for easy integration into buoys, small underwater platforms, fixed monitoring stations, and water monitoring systems.

Technical Specifications

Parameter	Specification	Parameter	Specification
Housing Material	PEEK	Maximum Pressure Rating	6MPa
Temperature Range	-5~35°C	Temperature Accuracy	±0.001°C
Temperature Resolution	0.0001°C	Temperature Stability	0.0001°C/month
Conductivity Range	0~70mS/cm	Conductivity Accuracy	±0.003mS/cm
Conductivity Resolution	0.0001mS/cm	Conductivity Stability	0.0017mS/cm/per month
Pressure Resolution	±0.01%FS	Pressure Resolution	0.001%FS
Pressure Stability	0.1%FS/year	Sampling Rate	10Hz
Supply Voltage	5~36V	Data Acquisition Method	RS485、RS232、USB
Dimensions	∅36mm × 170mm	Weight / Weight in Water	0.2KG/0.1KG

Applications



Aquaculture



Lake and Reservoir Applications



River Hydrographic Monitoring



Water Body Survey

Product Advantages

High-precision shallow-water measurement

Designed for nearshore, harbor, river, and lake environments.

Compact design for flexible deployment

Ø36 mm × 170 mm. Suitable for integration into buoys, small underwater vehicles, and fixed monitoring platforms.

Long-term stability and high reliability

Temperature Stability: 0.0001 °C/month; Conductivity Stability: 0.0017 mS/cm per month

Multiple interfaces for easy integration

Supports RS-232, RS-485, and USB interfaces, with protocol customization available upon reques.

AbyssPro TD Profiler



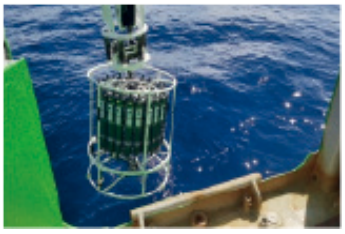
Product Overview

AbyssPro TD Profiler is a high-precision instrument for deep-sea temperature and depth profiling. It delivers fast response, stable measurements, and low power consumption. Data can be output in real time or stored internally. Compact and equipped with a long-life battery, it integrates easily into buoys, moorings, seafloor bases, landers, and other ocean platforms for deep-sea hydrographic surveys and long-term fixed-point monitoring.

Technical Specifications

Sensor Types	Temperature	Pressure	Tilt(optional attitude sensor)
Measurement Range	-2~35°C	0~70MPa (optional))	-45°~45°
Accuracy	±0.002°C	±0.02%FS	0.1°
Resolution	0.0002°C	0.001%FS	0.1°
Drift	0.002°C/year	0.05%FS/year	——
Response Time	200ms	10ms	10ms

Applications



Marine Monitoring



Hydrographic Survey



Marine Engineering
& Environmental Monitoring



Long-term Buoy Observation

Product Advantages

High accuracy, wide measurement range

Meets the requirements for deep-sea temperature and depth profiling observation.

Fast response

Promptly captures changes in water temperature and depth.

Low-power design

Measurement current < 120 mA (measurement mode), suitable for long-term deployment.

Strong environmental adaptability

Pressure-resistant, corrosion-resistant, and anti-fouling.