



bluesonde

Real-Time **Water Intelligence**

Combining advanced technology and scientific insights to provide modular water monitoring solutions.

BUOY SPECIFICATIONS

Onboard Power

Solar and battery-powered for autonomous operation—no recharging needed.

Compact Construction

30.5 cm (12") Diameter | 5.4 kg (12 lb) Weight

Seamless Connectivity

LTE | Satellite | Bluetooth

Configurable Sensor Payloads

Choose from preconfigured options or work with us to build a custom payload for your specific monitoring needs.

Base (always included):

Position + Temperature + Conductivity + Dissolved Oxygen

Additional Sensor List (select 2):

pH | Turbidity | Chlorophyll | Phycocyanin | Phycoerythrin | CDOM/FDOM | Tryptophan | and more

Applications:

Environmental Compliance | HABs | mCDR | Wastewater | Water Treatment | and more

Advanced Anti-Fouling Technology

Patent-pending anti-fouling minimizes biofouling across all sensors, ensuring reliability and reducing maintenance costs.



CHALLENGES

Current in-situ sensing equipment requires frequent maintenance, driving up operating costs and limiting monitoring coverage in key locations. These challenges create critical data gaps, preventing researchers and operators from accessing reliable, real-time information needed to optimize operations, assess risks, and make informed decisions at scale.

SOLUTIONS

Bluesonde is revolutionizing water monitoring with the industry's first scalable, real-time water quality monitoring buoy. This pioneering product is the foundation of a growing fleet of advanced sensing solutions, designed to empower organizations to champion sustainability and drive impactful climate.



**Data-Driven
Water Insights**



**Accuracy You
Can Trust**



**User Friendly
& Affordable**



**Scale with
Your Business**

BENEFITS

1

Real-Time Water Quality Monitoring

Continuous data on aquatic environmental conditions—viewable via dashboard—to support effective monitoring of HABs, hypoxia, wastewater discharge, and more.

2

Durable & Reliable

Advanced sensors designed to withstand harsh marine and freshwater environments, ensuring long-term performance in even the most challenging conditions

3

Seamless Integrations

Flexibility to use our dashboard or integrate with existing data platforms, providing a consolidated view that enhances your ability to analyze and respond to environmental changes

4

Rapidly Deployable

Designed for quick and easy setup, allowing you to scale monitoring solutions as your business grows





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SENSOR PAYLOAD CONFIGURATOR

FLEXIBLE SENSOR PAYLOADS FOR REAL-WORLD WATER MONITORING



Our monitoring platform is built to adapt to a wide range of aquatic environments from remote freshwater lakes to dynamic coastal zones. Every system comes standard with core water quality sensors for temperature, conductivity, and dissolved oxygen, and can be configured with your choice of **two additional optical or electrochemical sensors**.

Whether you're monitoring **aquaculture sites, HABs, dredging impacts, mCDR, stormwater runoff**, or long-term **ocean health**, our modular architecture ensures you get the data you need without paying for sensors you don't.

SENSOR LIST

1

Base (*Always Included*)

Conductivity
Temperature
Dissolved Oxygen

Made with
RDO[®]
Technology

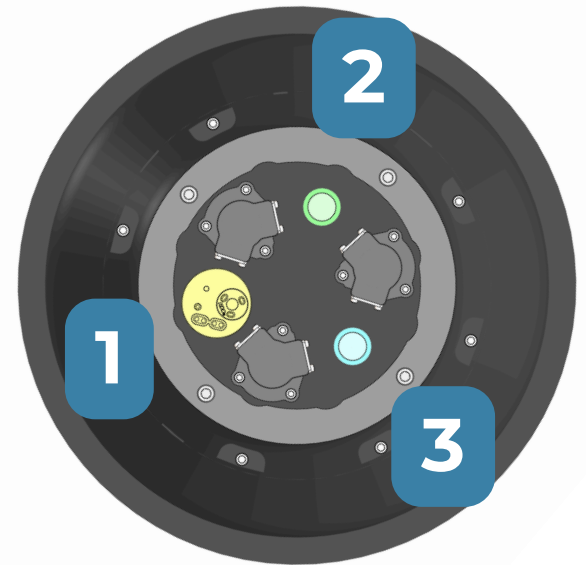
2, 3

Select any 2 of the following:

Chlorophyll-a
Turbidity
CDOM/FDOM
Phycocyanin (PC)
Phycoerythrin (PE)
Rhodamine Dye
Fluorescein Dye
Tryptophan
Optical Brighteners (OBA)
Crude or Refined Oil

TURNER
DESIGNS

*pH - in validation  **ANB Sensors**



SENSOR PAYLOAD EXAMPLES



Water Quality 1: Base+pH+Chlorophyll

Water Quality 3: Base+Chlorophyll+Turbidity

Freshwater HABs: Base+Chlorophyll+PC

Marine HABs: Base+Chlorophyll+PE

Wastewater / Runoff: Base+OBA+Tryptophan

Tracer: Base+Turbidity+Rhodamine

Dredging: Base+Turbidity+CDOM/FDOM

Don't see the parameter(s) that your application requires?

Contact us to discuss custom configurations or future sensor integration options.

