



bluesonde

Real-Time **Water Intelligence**

Providing accessible, actionable water data through compact, scalable monitoring solutions.

BUOY SPECIFICATIONS

Onboard Power

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

Compact Construction

30.5 cm (12") Diameter | 5.9 kg (13 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):

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

Applications:

Aquaculture | HABs | Watersheds | Wastewater | Research | and more

Advanced Anti-Fouling Technology

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



CHALLENGES



Traditional water monitoring systems are expensive, maintenance-intensive, and difficult to deploy at scale. These limitations reduce monitoring coverage and create critical data gaps, preventing researchers and operators from accessing the reliable, real-time information needed to manage resources, reduce risk, and make informed decisions.

SOLUTIONS



Bluesonde delivers compact, low-maintenance water monitoring systems that provide continuous environmental intelligence. Combining real-time sensing, cloud-connected analytics, and patent-pending anti-fouling technology, our solutions make high-quality water data more accessible and affordable.



**Data-Driven
Water Insights**



**Accuracy You
Can Trust**



**Low Maintenance
& Affordable**



**Scale with
Your Needs**

BENEFITS



1

Real-Time Water Quality Monitoring

Continuous environmental data delivered through a cloud-based dashboard for aquaculture, HABs, CSOs, drinking water protection, environmental compliance, and more.

2

Durable & Reliable

Patent-pending anti-fouling technology and rugged sensor integrations reduce maintenance requirements while ensuring reliable long-term performance.

3

Seamless Integrations

Access data through the Bluesonde dashboard or integrate directly into existing platforms, workflows, and decision-support tools.

4

Rapidly Deployable

Compact, lightweight systems designed for quick installation and effortless scaling across multiple monitoring locations.





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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 waters**. Every system includes core sensors for temperature, conductivity, and dissolved oxygen and can be configured with additional optical or electrochemical sensors.

Whether you're monitoring **aquaculture operations**, **HABs**, **drinking water sources**, **CSO events**, **stormwater runoff**, **dredging impacts**, **environmental compliance**, or long-term **ecosystem health**, our modular architecture delivers the data you need without unnecessary complexity or cost.

SENSOR LIST

1

Base (Always Included)

Conductivity
Temperature
Dissolved Oxygen

Made with
RDO[®]
Technology

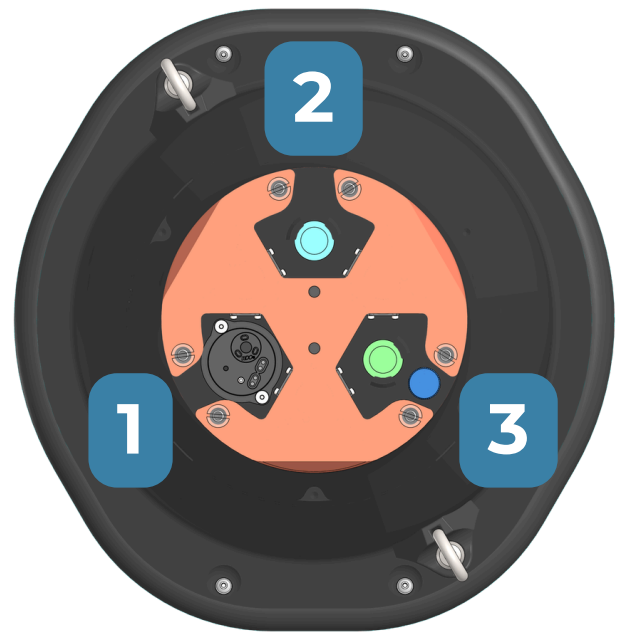
2, 3

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 - available soon  **ANB Sensors**



EXAMPLE APPLICATIONS



General Water Quality:

Base + Chlorophyll + Turbidity

HAB Monitoring:

Base + Chlorophyll + PC (or PE)

Watershed Monitoring:

Base + Turbidity

CSO / Wastewater Detection:

Base, with optional Tryptophan or OBA

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

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

