

SENTINEL

SURFACE TELEMETRY BUOY



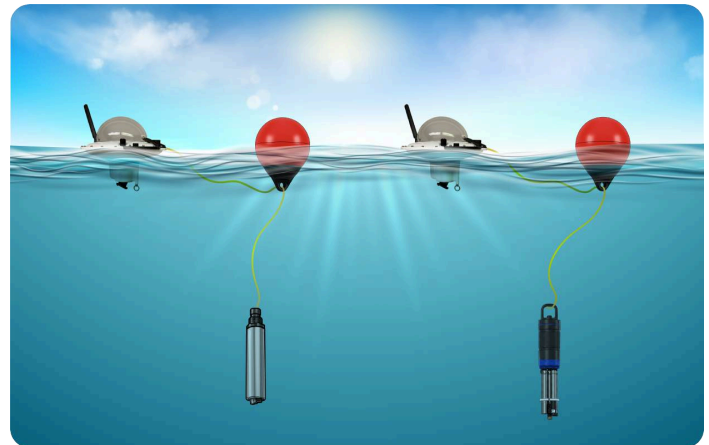
Solar-powered, real-time telemetry for your sondes and sensors, from 40 cm to 30 m deep

WHAT IT IS

The Sentinel is a lightweight, solar-powered surface buoy that powers a TrackerSonde or a single sensor and streams its data in real time to the AquaRealTime dashboard. It is built on the same proven platform as the AlgaeTracker, with the same shape, durability, and connectivity, but without built-in surface sensors. That makes it the lower-cost choice when you need data at depth rather than at the surface.

KEY FEATURES

- Carries one TrackerSonde (up to 6 sensors) or one single sensor
- Sensor depth from 40 cm to 30 m
- Plug-and-play, one-person install in 30–60 minutes
- Solar powered, with up to 2 weeks of operation without sun
- 4G LTE Cat-M1 cellular with automatic carrier switching, managed by ART
- GPS location with drift alerts
- Readings every 30 minutes to a live dashboard with alerts, historical charts, CSV export, and REST API
- Same rugged platform as the AlgaeTracker



Sentinel deployments with a single sensor (left) and a TrackerSonde (right).

COMPATIBLE SENSORS

Single Sensor (choose one)

Dissolved Oxygen + temperature
Turbidity
Chlorophyll-a
Phycocyanin
UV254 Total Organic Carbon
Dissolved organic matter
Total suspended solids

Each sensor has a self-cleaning brush.

TrackerSonde (up to 6)

pH + temperature
ORP + temperature
DO + temperature
Conductivity + temperature
Turbidity
Chlorophyll-a
Phycocyanin

A central anti-fouling brush cleans all probes.

SENTINEL OR ALGAETRACKER?

Choose the Sentinel when you

- Need data at depth, not at the surface
- Prefer the geometry of a sonde or single sensor
- Want the lower-cost telemetry platform

Choose the AlgaeTracker when you

- Want surface chlorophyll, phycocyanin, turbidity, and light data built in
- Want the simplest install, with nothing to attach

APPLICATIONS

Water utilities

Protect source water, fine-tune treatment, and make data-driven decisions.

Lake associations

Safeguard community health, track long-term trends, and share reliable data.

Recreational area managers

Keep visitors safe, avoid unnecessary closures, and protect ecosystems.

Federal, state & provincial water departments

Strengthen public safety and support science-based decisions.