

TRACKERNODE

TELEMETRY UNIT



OVERVIEW & FEATURES

The **AquaRealTime ART-TRN1 TrackerNode** is a compact telemetry unit that brings AquaRealTime sondes and sensors online wherever a floating surface buoy isn't the right fit. It mounts on a shore mounted post, bridge, dock, existing buoy or any fixed structure, outdoors or indoors. It collects readings from up to two connected sondes or sensors and streams them over cellular to the AquaRealTime dashboard, running on solar or shore power.

WHEN TO USE THE TRACKERNODE

- **Faster Moving Water:** Rivers, streams, creeks and canals, where stronger currents make a floating surface buoy impractical.
- **Existing Buoys:** Mount directly onto a navigation or monitoring buoy that is already in place, so no additional buoy or mooring is needed.
- **Docks & Fixed Mounts:** Attach to docks, piers, bridges, a post planted on shore, or any fixed object in any waterway.
- **Indoor Installations:** Run on shore power inside treatment plants, pump stations, labs and other facilities.

FLEXIBLE POWER

- **Solar Powered:** Pair with the optional solar panel (sold separately) for fully off-grid deployments.
- **Shore Power:** Connect to any 5 V DC supply for permanent, dockside or indoor use.
- **Any Setting:** The same unit works outdoors on the water or inside a facility. Just choose the power source.

PLUG AND PLAY TELEMETRY

- **Two Ports:** Connect two sondes or sensors, such as the ART-MPS1 TrackerSonde.
- **Managed Cellular:** Automatic carrier hopping keeps the best connection, 100% managed by AquaRealTime.
- **Automatic Data Sync:** Live data, historical charts and alerts on the AquaRealTime dashboard.
- **Direct to SCADA:** Pull data into SCADA or any third-party software through the REST API.

SYSTEM SPECIFICATIONS

System Ratings		Data	
Model	ART-TRN1 TrackerNode	Telemetry	Cellular, 100% managed by ART
Sensor / Sonde Ports	2	Carrier	Automatic carrier hopping
Compatible Devices	ART-MPS1 sonde, single sensors	Output	AquaRealTime online dashboard
Sampling Interval	30 min default (can be faster)	Integration	REST API (SCADA / 3rd-party)
Power		General	
Solar	Optional panel (sold separately)	Mounting	Docks, shore posts, buoys, indoors
Shore Power	5 V DC supply	Dimensions	250 x 150 x 100 mm
		Weight	980 g
		Enclosure Rating	IP67
		Operating Temperature	-10 to +50 °C



USE CASES

Municipal Water

Drinking water sources, intakes and treatment processes.

Environmental

Rivers, streams, canals and reservoirs: HABs, turbidity and more.

Aquaculture

Fish farm pens, raceways and hatchery water supplies.

Dock Mounted

Marinas, swimming beach docks, piers and water intake structures.

Indoor (Shore Power)

Treatment plant tanks and basins, pump stations, lab and process lines.

Industrial

Process water control, cooling water and plant discharge.

SENSOR OPTIONS

Pair with the **ART-MPS1 TrackerSonde**: up to six factory-calibrated probes, temperature included.

ART-ODO2 Dissolved Oxygen 0-50 mg/L	ART-TU2 Turbidity 0-4000 NTU	ART-PHT2 pH 0-14 pH	ART-ORP2 ORP ±1999 mV	ART-CON2 Conductivity 0-200 mS/cm
ART-WT2 Water Temp 0-50 °C, included	ART-CA2 Chlorophyll 0-500 µg/L	ART-PC2 Blue-Green Algae 0-300k cells/mL	ART-OW2 Oil in Water 0-150 ppm	ART-DEP2 Depth 0-30 m

Also available as single sensors: Optical Dissolved Oxygen (ART-ODO1-B), UV254 Total Organic Carbon and Chemical Oxygen Demand (ART-UV254-HL), Total Suspended Solids (ART-TSS1-B), Dissolved Organic Matter (ART-DOM1-B), Oil in Water, and others.