OceanTrack: GPS Drifter Buoy

Combining reliability with adaptability, the OceanTrack is an essential tool for any ocean monitoring initiative.

The OceanTrack Buoy is a state-of-the-art, solar-powered instrument designed for real-time monitoring and data collection in marine environments.
Engineered for durability and versatility, this compact, maintenance-free buoy is ideal for a variety of applications, including ocean current tracking, environmental research, pollution monitoring, and weather prediction.
Its robust design and self-sustaining power supply allow for deployment in remote or harsh oceanic conditions, delivering reliable performance and data over extended periods.

APPLICATIONS

OCEAN CURRENT & WEATHER PATTERN TRACKING

Provides data for models of ocean currents, helping to forecast weather and support climate research.

ENVIRONMENTAL & POLLUTION MONITORING

Enables monitoring of pollutants, microplastics, or other environmental parameters in specific ocean regions.

MARITIME & COASTAL RESEARCH

Supports researchers in studying marine biodiversity, water temperature, salinity, and other critical oceanographic factors.

EMERGENCY & DRIFT TRACKING

Used for tracking drifting hazards, such as oil spills, and monitoring their movement over time.

KEY TECHNICAL CHARACTERISTICS

Solar-Powered for Unlimited Lifespan: Operates indefinitely without the need for battery replacements or recharging.

Maintenance-Free Operation: Rugged, weatherproof design reduces need for on-site servicing.

Compact & Lightweight: Easy to deploy, transport, and store, with a compact form factor suited for various oceanographic missions.

Configurable Transmission Intervals: Data transmission can be customized based on mission requirements, balancing data detail and power efficiency.

Built-In Recovery Lights: Automatically activated for easy retrieval, even in low-light or rough sea conditions.

Real-Time GPS Tracking: Offers precise positioning and tracking to enhance data accuracy and deployment control.

TECHNICAL SPECIFICATIONS

ELB TECHNICAL SPECIFICATIONS
ILL+ BUOY
Weight 4 Kg
Dimensions 310 mm diameter x 315 mm high
No Need for Battery Charger
Energy PV panels to store solar energy