

# Global Powered Data Buoy Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Powered Data Buoy market size is expected to reach \$ 197 million by 2032, rising at a market growth of 2.6% CAGR during the forecast period (2026-2032).

**Positioning & demand.** Powered Data Buoy is shifting from a ?measurement point at sea? to an operational data node: it continuously senses wind/waves/pressure/SST and pushes real-time streams via satellite/cellular into customer workflows. The value of a Powered Data Buoy is increasingly defined by uptime, traceable quality control, and repeatable maintenance, not just sensor payload. The persistence of large-scale buoy operations, formal QC handbooks, and recurring maintenance procurements signals that Powered Data Buoy has entered an ?infrastructure? phase where data reliability and lifecycle delivery are decisive.

**Supplier landscape.** The Powered Data Buoy market is effectively segmented into three product archetypes. (1) Lightweight, rapid-deploy Powered Data Buoy platforms optimized for ?minutes-to-deploy, immediate data,? typically solar-powered with satellite/cellular dual links and standardized data access. (2) Engineering-grade metocean Powered Data Buoy systems with larger hulls and stronger power systems, often bundled with navigation aids and station-keeping packages, targeting offshore wind site assessment, construction windows, and long-term baselines. (3) Platformized high-power Powered Data Buoy solutions delivered as ?power + comms + integrated sensing,? capable of multi-sensor missions and higher-value tasking (e.g., persistent maritime awareness). This segmentation maps directly to procurement behavior: customers move from buying hardware to buying assured data and managed operations.

**Core parameters & enabling technology.** Powered Data Buoy selection typically collapses into three parameter sets: (i) power budget and endurance margin (solar array rating, battery capacity, sampling cadence, transmission duty cycle); (ii) communications and operability (satellite as offshore fallback, cellular to reduce OPEX

and increase throughput; remote alerts, OTA firmware, configuration control, APIs); and (iii) survivability plus data credibility (hull/ingress protection, mooring envelope, deployment depth, and formal QC workflows such as integration tests and field verification). Lightweight Powered Data Buoy platforms commonly publish deployment depth ranges and solar/battery specs and emphasize API delivery; engineering-grade Powered Data Buoy systems trade mass and higher power for broader payloads and longer service intervals; public-service networks anchor Powered Data Buoy performance around explicit QC procedures. A recent contract disclosure illustrates the direction of travel: a listed company announced a multi-buoy award (>US\$5M) supporting a U.S. maritime mission, where Powered Data Buoy is delivered as multiple platforms + integrated sensing + operational service, tied into a broader command-and-control environment?evidence that ?managed Powered Data Buoy capability? is scaling.

Where the growth concentrates. The next leg for Powered Data Buoy is ?more power, more comms, more productization.? First, Powered Data Buoy will scale as networks, with standardized APIs, alerts, and data subscriptions lowering integration friction and enabling multi-point intelligence. Second, Powered Data Buoy expands from surface to subsurface via smart moorings and modular nodes, bundling currents and water-quality payloads into engineering-ready data packs. Third, edge compute moves onboard: Powered Data Buoy increasingly performs event detection, compression, and task orchestration to deliver higher information density per transmitted byte. Fourth, communications become hybrid and security-forward (satellite + cellular/5G, encrypted transport, remote policy/config control). Fifth, the energy stack matures: solar is industrialized, while wave-energy pathways offer incremental value for remote/high-latitude endurance. Finally, competition shifts toward ?ocean SaaS + field delivery?: Powered Data Buoy winners will be those who operationalize reliability?measured in downtime, data availability, and auditable QC.

This report studies the global Powered Data Buoy production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Powered Data Buoy and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Powered Data Buoy that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Powered Data Buoy total production and demand, 2021-2032, (Units)

Global Powered Data Buoy total production value, 2021-2032, (USD Million)

Global Powered Data Buoy production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Powered Data Buoy consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Powered Data Buoy domestic production, consumption, key domestic manufacturers and share

Global Powered Data Buoy production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Powered Data Buoy production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Powered Data Buoy production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Powered Data Buoy market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Fugro Oceanor, NexSens Technology, Aanderaa, Develogic GmbH, MetOcean Telematics, Xylem, Mobilis SAS, AXYS Technologies, JFC Manufacturing, IMBROS, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Powered Data Buoy market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (USD/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Powered Data Buoy Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Powered Data Buoy Market, Segmentation by Type:

Solar Powered

Battery Powered

Global Powered Data Buoy Market, Segmentation by Installation:

Moored

Drifting

Global Powered Data Buoy Market, Segmentation by Communication:

Satellite

Cellular/Private Network

Global Powered Data Buoy Market, Segmentation by Application:

Oil and Gas

Defense

Research

Others

**Companies Profiled:**

*Global Powered Data Buoy Supply, Demand and Key Producers, 2026-2032*

Fugro Oceanor

NexSens Technology

Aanderaa

Develogic GmbH

MetOcean Telematics

Xylem

Mobilis SAS

AXYS Technologies

JFC Manufacturing

IMBROS

OBSERVATOR

Ocean Scientific International Ltd (OSIL)

**Key Questions Answered:**

1. How big is the global Powered Data Buoy market?
2. What is the demand of the global Powered Data Buoy market?
3. What is the year over year growth of the global Powered Data Buoy market?
4. What is the production and production value of the global Powered Data Buoy market?
5. Who are the key producers in the global Powered Data Buoy market?
6. What are the growth factors driving the market demand?

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