

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

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Abstracts

The global Marine Data Buoy market size is expected to reach \$ 592 million by 2032, rising at a market growth of 3.1% CAGR during the forecast period (2026-2032).

Marine Data Buoy is a floating platform designed to collect, store, and transmit real-time data on oceanographic, meteorological, and environmental parameters. It typically incorporates a buoyant body, sensor payloads, power supply systems such as solar panels, communication modules, and anchoring mechanisms to maintain position at sea. These buoys are used to measure variables such as water temperature, salinity, currents, waves, wind, and water quality, providing critical data for scientific research, environmental monitoring, and operational decision-making. Marine Data Buoys typically cost between several thousand and tens of thousands of dollars, with industry gross margins generally between 20% and 40%.

The upstream supply chain for Marine Data Buoys includes manufacturers and suppliers of high-density polyethylene, polyurethane foam, composite materials, solar panels, batteries, meteorological and oceanographic sensors, communication modules, mooring chains, ropes, shackles, and anchors. Midstream activities involve buoy design, hull fabrication, foam filling or composite assembly, sensor integration, electronics installation, software configuration, and quality and environmental testing. Downstream customers include government agencies, maritime authorities, offshore oil and gas operators, offshore wind developers, aquaculture operators, and research institutions. The supply chain relies on integration between materials processing, precision manufacturing, sensor technology, and marine engineering services to ensure buoy reliability and data accuracy in harsh marine environments.

The Marine Data Buoy market is a specialized segment within the broader floating buoy

industry, driven by the growing need for real-time oceanographic, meteorological, and environmental monitoring. Demand originates from government agencies, port authorities, offshore energy operators, aquaculture farms, and marine research institutions. Market growth is supported by increasing focus on climate monitoring, coastal management, offshore renewable energy projects, and regulatory compliance for maritime safety. Competition in this market is primarily based on the reliability of the buoy platform, sensor integration capabilities, data transmission performance, maintenance requirements, and customization for specific environmental conditions.

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

This report is a detailed and comprehensive analysis of the world market for Marine 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 Marine Data Buoy that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Marine 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 Xylem, RPS (Tetra Tech), Fugro, Xeos Technologies (Satlink), JFC Marine, Sofar Ocean, AXYS Technologies, Observator

Group, RTSYS, Mobilis, 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 Marine Data Buoy market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/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 Marine Data Buoy Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Marine Data Buoy Market, Segmentation by Type:

Moored Buoy

Drifting Buoy

Global Marine Data Buoy Market, Segmentation by Operating Depth:

Nearshore Buoy

Deep-sea Buoy

Global Marine Data Buoy Market, Segmentation by Power:

Solar?Powered Buoy

Battery Powered Buoy

Others

Global Marine Data Buoy Market, Segmentation by Application:

Weather Forecasting

Marine Engineering

Environmental Protection

Others

Companies Profiled:

Xylem

RPS (Tetra Tech)

Fugro

Xeos Technologies (Satlink)

JFC Marine

Sofar Ocean

AXYS Technologies

Observator Group

RTSYS

Mobilis

Frankstar Technology

Zeni Lite Buoy

OSIL

Datawell

NexSens

Fastwave

TechWorks Marine

Obscape

Huayun Sounding Meteorological Technology

Lightsun

Shenzhen Smart Ocean Technology

Guangzhou Rui Hai Ocean Technology

Key Questions Answered:

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

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