

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

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Abstracts

The global Mooring Data Buoy market size is expected to reach \$ 445 million by 2032, rising at a market growth of 3.4% CAGR during the forecast period (2026-2032).

Mooring Data Buoy is a data acquisition buoy platform fixed at a designated water location through a mooring or anchoring system, used for long-term continuous monitoring of meteorological, hydrological, water quality, wave, current, tide, temperature-salinity-depth, or ecological parameters in marine, coastal, lake, or inland waters. It transmits monitoring data to shore-based platforms or user data systems through wireless communication, cellular networks, satellite communication, or dedicated data links. Such products typically consist of a buoy platform, sensor system, data acquisition and control modules, power supply system, communication modules, positioning and warning devices, anchor chains, mooring hardware, and corrosion-resistant and waterproof structures. Their core function is to provide stable, continuous, and remotely accessible environmental monitoring data for a fixed location. Mooring Data Buoys typically cost between several thousand and tens of thousands of US dollars, with industry gross margins usually between 20% and 40%.

The upstream supply chain of Mooring Data Buoys mainly includes buoy materials, metal structures, anti-corrosion coatings, meteorological sensors, water quality sensors, wave sensors, current meters, temperature-salinity-depth sensors, solar panels, batteries, data loggers, communication modules, positioning modules, navigation lights, anchor chains, anchors, waterproof connectors, and data platform software. Among these, sensor reliability, power endurance, communication stability, structural durability, and mooring system safety are key factors affecting product performance. Midstream participants mainly include marine instrument companies, buoy manufacturers, and system integrators, which are responsible for buoy design, structural manufacturing,

sensor integration, data platform connection, factory testing, field deployment, and after-sales maintenance. Downstream customers mainly include ocean management agencies, meteorological authorities, environmental protection departments, port operators, offshore wind developers, oil and gas companies, marine engineering contractors, research institutes, and universities, whose procurement priorities typically focus on long-term operational stability, multi-parameter expandability, data accuracy, remote maintenance capability, and project delivery experience.

The Mooring Data Buoy market is a broad fixed-point observation platform segment within marine environmental monitoring equipment, with demand driven not only by meteorological and sea-state monitoring, but also by water quality monitoring, marine research, port and waterway safety, offshore wind, oil and gas facilities, ecological protection, and marine engineering projects. Compared with single-function buoys, mooring data buoys place greater emphasis on long-term fixed-location data continuity, sensor integration capability, power and communication stability, and reliable operation under complex marine conditions. Therefore, product value is not limited to the buoy hardware itself, but also includes sensor configuration, data acquisition systems, mooring design, remote data platforms, and maintenance services. As ocean development, environmental regulation, and digital marine observation systems continue to advance, the market is expected to evolve toward multi-parameter integration, modular configuration, intelligent remote operation, and project-based turnkey solutions.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Mooring 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, JFC Marine, Sofar Ocean, AXYS Technologies, Observator Group, Mobilis, Frankstar Technology, Zeni Lite Buoy, 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 Mooring 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 Mooring Data Buoy Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Mooring Data Buoy Market, Segmentation by Type:

Disc-shaped Buoy

Boat-shaped Buoy

Columnar Buoy

Global Mooring Data Buoy Market, Segmentation by Operating Depth:

Nearshore Buoy

Deep-sea Buoy

Global Mooring Data Buoy Market, Segmentation by Application:

Weather Forecasting

Marine Engineering

Environmental Protection

Others

Companies Profiled:

Xylem

RPS (Tetra Tech)

Fugro

JFC Marine

Sofar Ocean

AXYS Technologies

Observator Group

Mobilis

Frankstar Technology

Zeni Lite Buoy

OSIL

NexSens

TechWorks Marine

Huayun Sounding Meteorological Technology

Lightsun

Guangzhou Rui Hai Ocean Technology

Key Questions Answered:

1. How big is the global Mooring Data Buoy market?
2. What is the demand of the global Mooring Data Buoy market?
3. What is the year over year growth of the global Mooring Data Buoy market?
4. What is the production and production value of the global Mooring Data Buoy market?

5. Who are the key producers in the global Mooring Data Buoy market?
6. What are the growth factors driving the market demand?

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