

Global Mooring Data Buoy Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Mooring Data Buoy market size was valued at US\$ 351 million in 2025 and is forecast to a readjusted size of US\$ 445 million by 2032 with a CAGR of 3.4% during review period.

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 is a detailed and comprehensive analysis for global Mooring Data Buoy market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Mooring Data Buoy market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Mooring Data Buoy market size and forecasts by region and country, in

consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Mooring Data Buoy market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Mooring Data Buoy market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Mooring Data Buoy

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Mooring Data Buoy market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Mooring Data Buoy market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Disc-shaped Buoy

Boat-shaped Buoy

Columnar Buoy

Market segment by Operating Depth

Nearshore Buoy

Deep-sea Buoy

Market segment by Application

Weather Forecasting

Marine Engineering

Environmental Protection

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Mooring Data Buoy product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Mooring Data Buoy, with price, sales quantity, revenue, and global market share of Mooring Data Buoy from 2021 to 2026.

Chapter 3, the Mooring Data Buoy competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Mooring Data Buoy breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Mooring Data Buoy market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Mooring Data Buoy.

Chapter 14 and 15, to describe Mooring Data Buoy sales channel, distributors, customers, research findings and conclusion.

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