

Global Moored Meteorological 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 Moored Meteorological 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.

Moored Meteorological Buoy is a floating meteorological observation device fixed at a designated water location through a mooring system, mainly used to continuously collect offshore or coastal weather parameters such as wind speed, wind direction, air temperature, atmospheric pressure, humidity, rainfall, and solar radiation, and transmit the data to shore-based platforms, meteorological centers, or user data systems through wireless, cellular, or satellite communication. It typically consists of a buoy platform, meteorological sensors, power supply system, data acquisition and communication modules, positioning and warning devices, anchor chains, mooring hardware, and corrosion-resistant and waterproof structures. Its core function is to provide stable, continuous, and remotely accessible meteorological monitoring data for a fixed marine location. The unit price of Moored Meteorological Buoy typically ranges from several thousand to tens of thousands of US dollars, with industry gross margins generally between 20% and 40%.

The upstream supply chain of Moored Meteorological Buoys mainly includes buoy materials, metal structures, anti-corrosion coatings, meteorological sensors, solar panels, batteries, data loggers, communication modules, positioning modules, navigation lights, anchor chains, anchors, waterproof connectors, and control software. Among these, sensor reliability, power stability, communication quality, and mooring system durability directly determine product performance. Midstream participants are mainly buoy manufacturers, marine instrument companies, and system integrators,

which are responsible for buoy design, structural manufacturing, sensor integration, data platform connection, factory testing, offshore deployment, and maintenance support. Downstream customers mainly include meteorological agencies, ocean management authorities, port operators, offshore wind developers, oil and gas companies, marine engineering firms, research institutes, and environmental monitoring organizations, whose procurement priorities focus on long-term operating stability, fixed-location data continuity, resistance to wind and waves, remote maintenance capability, and project delivery experience.

The Moored Meteorological Buoy market is a fixed-station, long-term monitoring, and project-oriented segment within marine meteorological observation equipment, mainly driven by maritime traffic safety, port operations, offshore wind development, marine engineering construction, oil and gas facility operations, and weather-related disaster early warning. Compared with drifting meteorological buoys, moored meteorological buoys place greater emphasis on fixed-location data continuity, system stability, and adaptability to complex marine conditions. Therefore, purchasing decisions are usually not limited to the buoy hardware itself, but also involve sensor accuracy, mooring reliability, communication capability, power endurance, data platforms, and after-sales maintenance services. As offshore development activities continue to expand and requirements for extreme weather monitoring increase, competition in this market is gradually shifting from standalone hardware supply to integrated monitoring solutions and lifecycle service capabilities.

This report is a detailed and comprehensive analysis for global Moored Meteorological 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 Moored Meteorological Buoy market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Moored Meteorological 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 Moored Meteorological 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 Moored Meteorological 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 Moored Meteorological 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 Moored Meteorological 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

Moored Meteorological 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 Moored Meteorological Buoy product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Moored Meteorological 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 Moored Meteorological 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 Moored Meteorological Buoy.

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

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