

Global Moored Meteorological Buoy Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Moored Meteorological 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).

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 studies the global Moored Meteorological Buoy production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Moored Meteorological Buoy total production and demand, 2021-2032, (Units)

Global Moored Meteorological Buoy total production value, 2021-2032, (USD Million)

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

Global Moored Meteorological Buoy consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Moored Meteorological Buoy domestic production, consumption, key

domestic manufacturers and share

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

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

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

This report profiles key players in the global Moored Meteorological 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 Moored Meteorological 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 Moored Meteorological Buoy Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Moored Meteorological Buoy Market, Segmentation by Type:

Disc-shaped Buoy

Boat-shaped Buoy

Columnar Buoy

Global Moored Meteorological Buoy Market, Segmentation by Operating Depth:

Nearshore Buoy

Deep-sea Buoy

Global Moored Meteorological 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 Moored Meteorological Buoy market?
2. What is the demand of the global Moored Meteorological Buoy market?
3. What is the year over year growth of the global Moored Meteorological Buoy market?
4. What is the production and production value of the global Moored Meteorological Buoy market?
5. Who are the key producers in the global Moored Meteorological Buoy market?

6. What are the growth factors driving the market demand?

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