

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

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Abstracts

The global Moored Weather 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 Weather 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 monitoring data to shore-based platforms or data centers through wireless, satellite, or cellular communication. It typically consists of a buoy platform, meteorological sensors, power supply system, data acquisition and communication modules, anchor chains and mooring hardware, positioning and warning devices, and corrosion-resistant and waterproof structures. Its core value lies in providing stable, continuous, and remotely accessible meteorological data for a fixed marine location. The unit price of a Moored Weather Buoy typically ranges from several thousand to tens of thousands of US dollars, with industry gross margins usually between 20% and 40%.

The upstream supply chain of Moored Weather Buoys mainly includes buoy materials, metal structures, anti-corrosion coatings, meteorological sensors, solar panels, batteries, data loggers, communication modules, navigation lights, positioning modules, anchor chains, anchors, and waterproof connectors. Among these, buoy structure, sensor accuracy, power endurance, communication stability, and mooring system reliability are key factors affecting product performance. Midstream participants include buoy manufacturers, marine instrument companies, and system integrators, which are responsible for buoy design, sensor integration, control system configuration, shore-based data platform connection, factory testing, and offshore deployment 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 decisions typically focus on long-term operational stability, fixed-location data continuity, resistance to wind and waves, remote maintenance capability, and project delivery experience.

The Moored Weather Buoy market is a more engineering-oriented and project-based segment within the broader Weather Buoy market, mainly serving fixed-location and long-term offshore meteorological monitoring needs. Compared with drifting or temporarily deployed weather buoys, moored weather buoys usually feature higher system integration, stronger adaptability to marine conditions, and more stable data continuity, making them valuable in ports and waterways, coastal weather stations, offshore wind farms, marine engineering projects, oil and gas platform monitoring, and government meteorological observation networks. Future market growth will mainly be driven by offshore infrastructure development, extreme weather early warning, marine safety regulation, and rising demand for intelligent remote operation and maintenance, while product competition will increasingly shift from standalone hardware supply to sensor reliability, mooring stability, communication capability, data platforms, and lifecycle service capabilities.

This report studies the global Moored Weather Buoy production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

U.S. VS China: Moored Weather Buoy domestic production, consumption, key domestic manufacturers and share

Global Moored Weather Buoy production by manufacturer, production, price, value and

market share 2021-2026, (USD Million) & (Units)

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

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

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Moored Weather Buoy Market, Segmentation by Type:

Disc-shaped Buoy

Boat-shaped Buoy

Columnar Buoy

Global Moored Weather Buoy Market, Segmentation by Operating Depth:

Nearshore Buoy

Deep-sea Buoy

Global Moored Weather Buoy Market, Segmentation by Power:

Solar?Powered Buoy

Battery Powered Buoy

Others

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

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