

Global Moored Weather Buoy Market Growth 2026-2032

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Abstracts

The global Moored Weather Buoy market size is predicted to grow from US\$ 334 million in 2025 to US\$ 428 million in 2032; it is expected to grow at a CAGR of 3.6% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Moored Weather Buoy Industry Forecast" looks at past sales and reviews total world Moored Weather Buoy sales in 2025, providing a comprehensive analysis by region and market sector of projected Moored Weather Buoy sales for 2026 through 2032. With Moored Weather Buoy sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Moored Weather Buoy industry.

This Insight Report provides a comprehensive analysis of the global Moored Weather Buoy landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Moored Weather Buoy portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Moored Weather Buoy market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Moored Weather Buoy and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of

opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Moored Weather Buoy.

This report presents a comprehensive overview, market shares, and growth opportunities of Moored Weather Buoy market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Disc-shaped Buoy

Boat-shaped Buoy

Columnar Buoy

Segmentation by Operating Depth:

Nearshore Buoy

Deep-sea Buoy

Segmentation by Power:

Solar?Powered Buoy

Battery Powered Buoy

Others

Segmentation by Application:

Weather Forecasting

Marine Engineering

Environmental Protection

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Moored Weather Buoy market?

What factors are driving Moored Weather Buoy market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Moored Weather Buoy market opportunities vary by end market size?

How does Moored Weather Buoy break out by Type, by Application?

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