

# Global Meteo Buoy Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Meteo Buoy market size is expected to reach \$ 749 million by 2032, rising at a market growth of 3.6% CAGR during the forecast period (2026-2032).

Meteo Buoy is a meteorological observation device deployed in marine, lake, or coastal waters to continuously collect weather-related parameters such as wind speed, wind direction, air temperature, atmospheric pressure, humidity, rainfall, and solar radiation, and transmit the 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, mooring system, and protective structure, providing on-site weather data support for weather forecasting, maritime safety, offshore engineering, port operations, and scientific monitoring. The unit price of Meteo 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 Meteo Buoys mainly includes buoy materials, metal structures, solar panels, batteries, meteorological sensors, data loggers, communication modules, mooring systems, and waterproof and corrosion-resistant components, among which sensor accuracy, communication stability, power endurance, and buoy durability are key factors affecting product performance. Midstream participants are buoy system manufacturers and integrators responsible for structural design, sensor integration, software platform configuration, 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 purchasing decisions typically focus on long-term operating stability, data

reliability, remote maintenance capability, and adaptability to complex marine conditions.

The Meteo Buoy market is a fundamental segment within marine environmental monitoring equipment, with demand mainly driven by offshore weather observation, port and navigation safety, offshore wind operations, marine research, and disaster early warning. As offshore activities expand and the need for real-time weather monitoring increases, Meteo Buoys are gradually evolving from standalone meteorological data collection devices into connected monitoring platforms with long-term operation, remote data transmission, and multi-parameter integration capabilities.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Meteo 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, Xeos Technologies (Satlink),

JFC Marine, Sofar Ocean, AXYS Technologies, Observator Group, RTSYS, Mobilis, 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 Meteo 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 Meteo Buoy Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Meteo Buoy Market, Segmentation by Type:

Moored Buoy

Drifting Buoy

Global Meteo Buoy Market, Segmentation by Operating Depth:

Nearshore Buoy

Deep-sea Buoy

Global Meteo Buoy Market, Segmentation by Power:

Solar?Powered Buoy

Battery Powered Buoy

Others

Global Meteo Buoy Market, Segmentation by Application:

Weather Forecasting

Marine Engineering

Environmental Protection

Others

Companies Profiled:

Xylem

RPS (Tetra Tech)

Fugro

Xeos Technologies (Satlink)

JFC Marine

Sofar Ocean

AXYS Technologies

Observator Group

RTSYS

Mobilis

Frankstar Technology

Zeni Lite Buoy

OSIL

Datawell

NexSens

Fastwave

TechWorks Marine

Obscape

Huayun Sounding Meteorological Technology

Lightsun

Shenzhen Smart Ocean Technology

Guangzhou Rui Hai Ocean Technology

Key Questions Answered:

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

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