

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

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Abstracts

The global Weather Data 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).

Weather Data Buoy is an instrumented floating platform designed to collect and transmit weather related data from marine or inland water environments. It typically integrates sensors, onboard power, data logging, and communication systems to measure parameters such as wind, air temperature, atmospheric pressure, sea surface temperature, and wave conditions. By transmitting these observations to shore based systems or digital platforms, Weather Data Buoys provide timely environmental information for forecasting, navigation, safety management, research, and operational decision making. Weather Data Buoys typically range in price from several thousand to tens of thousands of US dollars, with industry gross margins generally between 20% and 40%.

The upstream supply chain of Weather Data Buoys includes manufacturers of meteorological sensors, wave and temperature sensors, communication modules, solar and battery power systems, data loggers, corrosion resistant buoy hulls, mooring components, and protective materials. System integrators and buoy manufacturers combine these components into complete platforms and configure them according to deployment conditions and user data requirements. Downstream users include meteorological agencies, oceanographic institutions, port authorities, offshore energy operators, fisheries, coastal safety agencies, and environmental monitoring organizations, while deployment, maintenance, data hosting, calibration, and analytics services form an important service layer around the hardware market.

The Weather Data Buoy market is supported by the growing need for continuous marine

weather observations across coastal management, maritime safety, offshore operations, fisheries, research, and climate monitoring. As marine activities become more data driven, buyers increasingly value buoy systems that can deliver reliable real time observations from remote or harsh water environments. The market is therefore shifting from simple standalone weather stations toward integrated floating data platforms that combine sensing, power management, telemetry, and cloud based data access, making Weather Data Buoys an important part of modern ocean observation infrastructure.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Weather Data Buoy Market, Segmentation by Type:

Moored Buoy

Drifting Buoy

Global Weather Data Buoy Market, Segmentation by Operating Depth:

Nearshore Buoy

Deep-sea Buoy

Global Weather Data Buoy Market, Segmentation by Power:

Solar?Powered Buoy

Battery Powered Buoy

Others

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

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