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Global Agricultural Meteorological Observatory Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Agricultural Meteorological Observatory market size is expected to reach $ 585 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

In 2025, global Agricultural Meteorological Observatory production reached approximately 216,437 units, with an average global market price of around US$ 1,563 per unit. Gross margin is about 23.5%. The cost is US$ 1,196 per unit. The production capacity is about 285,317 units. An Agricultural Meteorological Observatory is a comprehensive measurement system designed to monitor agricultural environmental and meteorological conditions. It typically includes sensors for temperature, humidity, precipitation, wind speed and direction, soil temperature and moisture, light intensity, and atmospheric pressure. Agricultural meteorological stations collect, store, analyze, and transmit real-time data, providing scientific support for crop growth, irrigation management, pest and disease control, agricultural decision-making, and smart agriculture platforms. They are a key infrastructure for modern precision and intelligent agriculture.

Agricultural Meteorological Observatories are expected to evolve toward greater intelligence, connectivity, remote management, and multifunctional integration. IoT technology, cloud computing, and big data analytics will enable real-time monitoring, remote control, and data-driven agricultural management. Sensor accuracy and coverage will improve, and integration with drones, satellite remote sensing, and AI predictive models will provide more precise meteorological and environmental information. Modular, low-power, and mobile designs will facilitate the adoption of small-scale field microclimate stations and automated data collection systems, supporting disaster mitigation, drought management, water-saving, and increased agricultural

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productivity.

This report studies the global Agricultural Meteorological Observatory production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study
Global Agricultural Meteorological Observatory total production and demand, 2021-2032, (Units)
Global Agricultural Meteorological Observatory total production value, 2021-2032, (USD Million)
Global Agricultural Meteorological Observatory production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Agricultural Meteorological Observatory consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: Agricultural Meteorological Observatory domestic production, consumption, key domestic manufacturers and share
Global Agricultural Meteorological Observatory production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)
Global Agricultural Meteorological Observatory production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global Agricultural Meteorological Observatory production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Agricultural Meteorological Observatory 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 Davis Instruments, Campbell Scientific, Pessl Instruments, Vaisala, Rainwise, Hexagon Agriculture, OTT HydroMet, Eiko Instruments, WatchDog (Spectrum Technologies), Lufft, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

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Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Agricultural Meteorological Observatory market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (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 Agricultural Meteorological Observatory Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Agricultural Meteorological Observatory Market, Segmentation by Type:

Portable Agricultural Weather Station

Fixed Agricultural Weather Station

Global Agricultural Meteorological Observatory Market, Segmentation by Function:

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Basic Agricultural Weather Station

Multi-parameter Agricultural Weather Station

Smart Connected Agricultural Weather Station

Global Agricultural Meteorological Observatory Market, Segmentation by Technology:

Wired Transmission Type

Wireless Transmission Type

IoT Cloud Platform Type

Global Agricultural Meteorological Observatory Market, Segmentation by Application:

Agriculture

Forestry

Animal Husbandry

Companies Profiled:

Davis Instruments

Campbell Scientific

Pessl Instruments

Vaisala

Rainwise

Hexagon Agriculture

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OTT HydroMet

Eiko Instruments

WatchDog (Spectrum Technologies)

Lufft

Kestrel (NK Technologies)

Sony

KMA

TOPCloud?Agri

Jingxun Changtong

Shandong Renk Control & Measurement

Shandong Fengtu IoT / Fengtu IoT

Jingdao Optoelectronics

Key Questions Answered:
1. How big is the global Agricultural Meteorological Observatory market?
2. What is the demand of the global Agricultural Meteorological Observatory market?
3. What is the year over year growth of the global Agricultural Meteorological Observatory market?
4. What is the production and production value of the global Agricultural Meteorological Observatory market?
5. Who are the key producers in the global Agricultural Meteorological Observatory market?
6. What are the growth factors driving the market demand?

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