

Global Smart Agricultural Weather Station Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Smart Agricultural Weather Station market size is expected to reach \$ 259 million by 2032, rising at a market growth of 8.7% CAGR during the forecast period (2026-2032).

In 2025, global Smart Agricultural Weather Station production reached approximately 103,604 units, with an average global market price of around US\$ 1,395 per unit. Gross margin is about 37%. The cost is US\$ 879 per unit. The production capacity is about 140,000 units. Smart agricultural weather stations conduct real-time monitoring based on precise meteorological sensors and use cloud computing, data mining and other technologies for multi-level analysis, which improves the ability of agricultural production to cope with natural environmental risks and makes weak traditional agriculture an efficient alternative industry. To promote agricultural development, smart environmental weather stations can be widely used in smart greenhouses and other agricultural fields, combined with soil sensors and Jingxun PTZ to jointly promote efficient agricultural production.

Smart agricultural weather stations are expected to evolve toward greater intelligence, IoT integration, precision, and data-driven capabilities. By integrating multi-parameter sensors for temperature, humidity, light intensity, precipitation, wind, soil moisture, and nutrient levels, combined with cloud computing, AI, and big data analytics, these stations can provide real-time monitoring, remote management, and predictive decision-making. Future products will emphasize low power consumption, modular design, mobility, and automated maintenance, while being deeply integrated with precision irrigation systems, pest and disease prediction models, agricultural machinery scheduling, and agricultural insurance platforms, enhancing productivity, resource efficiency, and risk management, serving as key data infrastructure for smart agriculture

and digital farm operations.

This report studies the global Smart Agricultural Weather Station production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Smart Agricultural Weather Station total production and demand, 2021-2032, (Units)

Global Smart Agricultural Weather Station total production value, 2021-2032, (USD Million)

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

Global Smart Agricultural Weather Station consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Smart Agricultural Weather Station domestic production, consumption, key domestic manufacturers and share

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

Global Smart Agricultural Weather Station production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Smart Agricultural Weather Station production by Technology, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Smart Agricultural Weather Station 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, KMA, TOPCloud?Agri, Jingxun Changtong, 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 Smart Agricultural Weather Station 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 Technology. 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 Smart Agricultural Weather Station Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Smart Agricultural Weather Station Market, Segmentation by Type:

Portable Agricultural Weather Station

Fixed Agricultural Weather Station

Global Smart Agricultural Weather Station Market, Segmentation by Technology:

Agriculture

Forestry

Animal Husbandry

Companies Profiled:

Davis Instruments

Campbell Scientific

Pessl Instruments

Vaisala

Rainwise

Hexagon Agriculture

OTT HydroMet

KMA

TOPCloud?Agri

Jingxun Changtong

Shandong Renk Control & Measurement

Shandong Fengtu IoT / Fengtu IoT

Jingdao Optoelectronics

Eiko Instruments

WatchDog (Spectrum Technologies)

Lufft

Kestrel (NK Technologies)

Sony

Key Questions Answered:

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

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