

Global Professional Weather Stations Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Professional Weather Stations market size is expected to reach \$ 440 million by 2032, rising at a market growth of 8.7% CAGR during the forecast period (2026-2032).

In 2025, global Professional Weather Stations production reached approximately 159,392 units, with an average global market price of around US\$ 1,454 per unit. Gross margin is about 38%. The cost is US\$ 902 per unit. The production capacity is about 180,000 units. Professional meteorological stations are meteorological observation stations that provide meteorological services for specific fields or industries. These meteorological stations are usually equipped with advanced meteorological observation instruments and equipment, capable of accurate meteorological data collection and analysis.

Professional weather stations are expected to evolve toward higher accuracy, automation, intelligence, and connectivity. Advances in sensor technology and data acquisition systems will enable precise, multi-parameter, all-weather measurements. Integration with IoT, cloud platforms, big data analytics, and artificial intelligence will provide real-time monitoring, remote management, and predictive analysis capabilities, delivering high-quality data for weather forecasting, scientific research, agricultural management, disaster warning, and environmental monitoring. Modular design, low-power operation, and mobile deployment will facilitate the adoption of micro-stations, small research stations, and automated monitoring networks, supporting applications in smart cities, green energy, aerospace, and ocean monitoring. Data standardization, system interoperability, and international collaboration will further enhance the global value of professional weather stations.

This report studies the global Professional Weather Stations production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

- Global Professional Weather Stations total production and demand, 2021-2032, (Units)
- Global Professional Weather Stations total production value, 2021-2032, (USD Million)
- Global Professional Weather Stations production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
- Global Professional Weather Stations consumption by region & country, CAGR, 2021-2032 & (Units)
- U.S. VS China: Professional Weather Stations domestic production, consumption, key domestic manufacturers and share
- Global Professional Weather Stations production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)
- Global Professional Weather Stations production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)
- Global Professional Weather Stations production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Professional Weather Stations 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 Professional Weather Stations 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 Professional Weather Stations Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Professional Weather Stations Market, Segmentation by Type:

Ground Weather Station

High-Altitude Weather Station

Marine Weather Station

Others

Global Professional Weather Stations Market, Segmentation by Function:

Basic Agricultural Weather Station

Multi-parameter Agricultural Weather Station

Smart Connected Agricultural Weather Station

Global Professional Weather Stations Market, Segmentation by Technology:

Wired Transmission Type

Wireless Transmission Type

IoT Cloud Platform Type

Global Professional Weather Stations Market, Segmentation by Application:

Transportation

Weather Forecast

Agriculture

Others

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

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