

Global Smart Agricultural Weather Station Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Smart Agricultural Weather Station market size was valued at US\$ 149 million in 2025 and is forecast to a readjusted size of US\$ 259 million by 2032 with a CAGR of 8.7% during review period.

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 is a detailed and comprehensive analysis for global Smart Agricultural Weather Station market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Technology. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Smart Agricultural Weather Station market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Smart Agricultural Weather Station market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Smart Agricultural Weather Station market size and forecasts, by Type and by Technology, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Smart Agricultural Weather Station market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Smart Agricultural Weather Station

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Smart Agricultural Weather Station market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Smart Agricultural Weather Station market is split by Type and by Technology. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Technology in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Portable Agricultural Weather Station

Fixed Agricultural Weather Station

Market segment by Technology

Agriculture

Forestry

Animal Husbandry

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Smart Agricultural Weather Station product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Smart Agricultural Weather Station, with price, sales quantity, revenue, and global market share of Smart Agricultural Weather Station from 2021 to 2026.

Chapter 3, the Smart Agricultural Weather Station competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Smart Agricultural Weather Station breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Technology, with sales market share and growth rate by Type, by Technology, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Smart Agricultural Weather Station market forecast, by regions, by Type, and by Technology, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of

Smart Agricultural Weather Station.

Chapter 14 and 15, to describe Smart Agricultural Weather Station sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Smart Agricultural Weather Station Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Portable Agricultural Weather Station

1.3.3 Fixed Agricultural Weather Station

1.4 Market Analysis by Technology

1.4.1 Overview: Global Smart Agricultural Weather Station Consumption Value by Technology: 2021 Versus 2025 Versus 2032

1.4.2 Agriculture

1.4.3 Forestry

1.4.4 Animal Husbandry

1.5 Global Smart Agricultural Weather Station Market Size & Forecast

1.5.1 Global Smart Agricultural Weather Station Consumption Value (2021 & 2025 & 2032)

1.5.2 Global Smart Agricultural Weather Station Sales Quantity (2021-2032)

1.5.3 Global Smart Agricultural Weather Station Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Davis Instruments

2.1.1 Davis Instruments Details

2.1.2 Davis Instruments Major Business

2.1.3 Davis Instruments Smart Agricultural Weather Station Product and Services

2.1.4 Davis Instruments Smart Agricultural Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Davis Instruments Recent Developments/Updates

2.2 Campbell Scientific

2.2.1 Campbell Scientific Details

2.2.2 Campbell Scientific Major Business

2.2.3 Campbell Scientific Smart Agricultural Weather Station Product and Services

2.2.4 Campbell Scientific Smart Agricultural Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Campbell Scientific Recent Developments/Updates

2.3 Pessl Instruments

2.3.1 Pessl Instruments Details

2.3.2 Pessl Instruments Major Business

2.3.3 Pessl Instruments Smart Agricultural Weather Station Product and Services

2.3.4 Pessl Instruments Smart Agricultural Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Pessl Instruments Recent Developments/Updates

2.4 Vaisala

2.4.1 Vaisala Details

2.4.2 Vaisala Major Business

2.4.3 Vaisala Smart Agricultural Weather Station Product and Services

2.4.4 Vaisala Smart Agricultural Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Vaisala Recent Developments/Updates

2.5 Rainwise

2.5.1 Rainwise Details

2.5.2 Rainwise Major Business

2.5.3 Rainwise Smart Agricultural Weather Station Product and Services

2.5.4 Rainwise Smart Agricultural Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Rainwise Recent Developments/Updates

2.6 Hexagon Agriculture

2.6.1 Hexagon Agriculture Details

2.6.2 Hexagon Agriculture Major Business

2.6.3 Hexagon Agriculture Smart Agricultural Weather Station Product and Services

2.6.4 Hexagon Agriculture Smart Agricultural Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Hexagon Agriculture Recent Developments/Updates

2.7 OTT HydroMet

2.7.1 OTT HydroMet Details

2.7.2 OTT HydroMet Major Business

2.7.3 OTT HydroMet Smart Agricultural Weather Station Product and Services

2.7.4 OTT HydroMet Smart Agricultural Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 OTT HydroMet Recent Developments/Updates

2.8 KMA

2.8.1 KMA Details

2.8.2 KMA Major Business

2.8.3 KMA Smart Agricultural Weather Station Product and Services

2.8.4 KMA Smart Agricultural Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 KMA Recent Developments/Updates

2.9 TOPCloud?Agri

2.9.1 TOPCloud?Agri Details

2.9.2 TOPCloud?Agri Major Business

2.9.3 TOPCloud?Agri Smart Agricultural Weather Station Product and Services

2.9.4 TOPCloud?Agri Smart Agricultural Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 TOPCloud?Agri Recent Developments/Updates

2.10 Jingxun Changtong

2.10.1 Jingxun Changtong Details

2.10.2 Jingxun Changtong Major Business

2.10.3 Jingxun Changtong Smart Agricultural Weather Station Product and Services

2.10.4 Jingxun Changtong Smart Agricultural Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Jingxun Changtong Recent Developments/Updates

2.11 Shandong Renk Control & Measurement

2.11.1 Shandong Renk Control & Measurement Details

2.11.2 Shandong Renk Control & Measurement Major Business

2.11.3 Shandong Renk Control & Measurement Smart Agricultural Weather Station Product and Services

2.11.4 Shandong Renk Control & Measurement Smart Agricultural Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Shandong Renk Control & Measurement Recent Developments/Updates

2.12 Shandong Fengtu IoT / Fengtu IoT

2.12.1 Shandong Fengtu IoT / Fengtu IoT Details

2.12.2 Shandong Fengtu IoT / Fengtu IoT Major Business

2.12.3 Shandong Fengtu IoT / Fengtu IoT Smart Agricultural Weather Station Product and Services

2.12.4 Shandong Fengtu IoT / Fengtu IoT Smart Agricultural Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Shandong Fengtu IoT / Fengtu IoT Recent Developments/Updates

2.13 Jingdao Optoelectronics

2.13.1 Jingdao Optoelectronics Details

2.13.2 Jingdao Optoelectronics Major Business

2.13.3 Jingdao Optoelectronics Smart Agricultural Weather Station Product and Services

2.13.4 Jingdao Optoelectronics Smart Agricultural Weather Station Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 Jingdao Optoelectronics Recent Developments/Updates

2.14 Eiko Instruments

2.14.1 Eiko Instruments Details

2.14.2 Eiko Instruments Major Business

2.14.3 Eiko Instruments Smart Agricultural Weather Station Product and Services

2.14.4 Eiko Instruments Smart Agricultural Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.14.5 Eiko Instruments Recent Developments/Updates

2.15 WatchDog (Spectrum Technologies)

2.15.1 WatchDog (Spectrum Technologies) Details

2.15.2 WatchDog (Spectrum Technologies) Major Business

2.15.3 WatchDog (Spectrum Technologies) Smart Agricultural Weather Station Product and Services

2.15.4 WatchDog (Spectrum Technologies) Smart Agricultural Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.15.5 WatchDog (Spectrum Technologies) Recent Developments/Updates

2.16 Lufft

2.16.1 Lufft Details

2.16.2 Lufft Major Business

2.16.3 Lufft Smart Agricultural Weather Station Product and Services

2.16.4 Lufft Smart Agricultural Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.16.5 Lufft Recent Developments/Updates

2.17 Kestrel (NK Technologies)

2.17.1 Kestrel (NK Technologies) Details

2.17.2 Kestrel (NK Technologies) Major Business

2.17.3 Kestrel (NK Technologies) Smart Agricultural Weather Station Product and Services

2.17.4 Kestrel (NK Technologies) Smart Agricultural Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.17.5 Kestrel (NK Technologies) Recent Developments/Updates

2.18 Sony

2.18.1 Sony Details

2.18.2 Sony Major Business

2.18.3 Sony Smart Agricultural Weather Station Product and Services

2.18.4 Sony Smart Agricultural Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.18.5 Sony Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: SMART AGRICULTURAL WEATHER STATION BY MANUFACTURER

3.1 Global Smart Agricultural Weather Station Sales Quantity by Manufacturer (2021-2026)

3.2 Global Smart Agricultural Weather Station Revenue by Manufacturer (2021-2026)

3.3 Global Smart Agricultural Weather Station Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Smart Agricultural Weather Station by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Smart Agricultural Weather Station Manufacturer Market Share in 2025

3.4.3 Top 6 Smart Agricultural Weather Station Manufacturer Market Share in 2025

3.5 Smart Agricultural Weather Station Market: Overall Company Footprint Analysis

3.5.1 Smart Agricultural Weather Station Market: Region Footprint

3.5.2 Smart Agricultural Weather Station Market: Company Product Type Footprint

3.5.3 Smart Agricultural Weather Station Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Smart Agricultural Weather Station Market Size by Region

4.1.1 Global Smart Agricultural Weather Station Sales Quantity by Region (2021-2032)

4.1.2 Global Smart Agricultural Weather Station Consumption Value by Region (2021-2032)

4.1.3 Global Smart Agricultural Weather Station Average Price by Region (2021-2032)

4.2 North America Smart Agricultural Weather Station Consumption Value (2021-2032)

4.3 Europe Smart Agricultural Weather Station Consumption Value (2021-2032)

4.4 Asia-Pacific Smart Agricultural Weather Station Consumption Value (2021-2032)

4.5 South America Smart Agricultural Weather Station Consumption Value (2021-2032)

4.6 Middle East & Africa Smart Agricultural Weather Station Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Smart Agricultural Weather Station Sales Quantity by Type (2021-2032)

5.2 Global Smart Agricultural Weather Station Consumption Value by Type (2021-2032)

5.3 Global Smart Agricultural Weather Station Average Price by Type (2021-2032)

6 MARKET SEGMENT BY TECHNOLOGY

6.1 Global Smart Agricultural Weather Station Sales Quantity by Technology (2021-2032)

6.2 Global Smart Agricultural Weather Station Consumption Value by Technology (2021-2032)

6.3 Global Smart Agricultural Weather Station Average Price by Technology (2021-2032)

7 NORTH AMERICA

7.1 North America Smart Agricultural Weather Station Sales Quantity by Type (2021-2032)

7.2 North America Smart Agricultural Weather Station Sales Quantity by Technology (2021-2032)

7.3 North America Smart Agricultural Weather Station Market Size by Country

7.3.1 North America Smart Agricultural Weather Station Sales Quantity by Country (2021-2032)

7.3.2 North America Smart Agricultural Weather Station Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Smart Agricultural Weather Station Sales Quantity by Type (2021-2032)

8.2 Europe Smart Agricultural Weather Station Sales Quantity by Technology (2021-2032)

8.3 Europe Smart Agricultural Weather Station Market Size by Country

8.3.1 Europe Smart Agricultural Weather Station Sales Quantity by Country (2021-2032)

8.3.2 Europe Smart Agricultural Weather Station Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Smart Agricultural Weather Station Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Smart Agricultural Weather Station Sales Quantity by Technology (2021-2032)

9.3 Asia-Pacific Smart Agricultural Weather Station Market Size by Region

9.3.1 Asia-Pacific Smart Agricultural Weather Station Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Smart Agricultural Weather Station Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Smart Agricultural Weather Station Sales Quantity by Type (2021-2032)

10.2 South America Smart Agricultural Weather Station Sales Quantity by Technology (2021-2032)

10.3 South America Smart Agricultural Weather Station Market Size by Country

10.3.1 South America Smart Agricultural Weather Station Sales Quantity by Country (2021-2032)

10.3.2 South America Smart Agricultural Weather Station Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Smart Agricultural Weather Station Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Smart Agricultural Weather Station Sales Quantity by Technology (2021-2032)

11.3 Middle East & Africa Smart Agricultural Weather Station Market Size by Country

11.3.1 Middle East & Africa Smart Agricultural Weather Station Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Smart Agricultural Weather Station Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Smart Agricultural Weather Station Market Drivers

12.2 Smart Agricultural Weather Station Market Restraints

12.3 Smart Agricultural Weather Station Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Smart Agricultural Weather Station and Key Manufacturers

13.2 Manufacturing Costs Percentage of Smart Agricultural Weather Station

13.3 Smart Agricultural Weather Station Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Smart Agricultural Weather Station Typical Distributors

14.3 Smart Agricultural Weather Station Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Smart Agricultural Weather Station Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Smart Agricultural Weather Station Consumption Value by Technology, (USD Million), 2021 & 2025 & 2032

Table 3. Davis Instruments Basic Information, Manufacturing Base and Competitors

Table 4. Davis Instruments Major Business

Table 5. Davis Instruments Smart Agricultural Weather Station Product and Services

Table 6. Davis Instruments Smart Agricultural Weather Station Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 7. Davis Instruments Recent Developments/Updates

Table 8. Campbell Scientific Basic Information, Manufacturing Base and Competitors

Table 9. Campbell Scientific Major Business

Table 10. Campbell Scientific Smart Agricultural Weather Station Product and Services

Table 11. Campbell Scientific Smart Agricultural Weather Station Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 12. Campbell Scientific Recent Developments/Updates

Table 13. Pessl Instruments Basic Information, Manufacturing Base and Competitors

Table 14. Pessl Instruments Major Business

Table 15. Pessl Instruments Smart Agricultural Weather Station Product and Services

Table 16. Pessl Instruments Smart Agricultural Weather Station Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 17. Pessl Instruments Recent Developments/Updates

Table 18. Vaisala Basic Information, Manufacturing Base and Competitors

Table 19. Vaisala Major Business

Table 20. Vaisala Smart Agricultural Weather Station Product and Services

Table 21. Vaisala Smart Agricultural Weather Station Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 22. Vaisala Recent Developments/Updates

Table 23. Rainwise Basic Information, Manufacturing Base and Competitors

Table 24. Rainwise Major Business

Table 25. Rainwise Smart Agricultural Weather Station Product and Services

Table 26. Rainwise Smart Agricultural Weather Station Sales Quantity (Units), Average

Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 27. Rainwise Recent Developments/Updates

Table 28. Hexagon Agriculture Basic Information, Manufacturing Base and Competitors

Table 29. Hexagon Agriculture Major Business

Table 30. Hexagon Agriculture Smart Agricultural Weather Station Product and Services

Table 31. Hexagon Agriculture Smart Agricultural Weather Station Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 32. Hexagon Agriculture Recent Developments/Updates

Table 33. OTT HydroMet Basic Information, Manufacturing Base and Competitors

Table 34. OTT HydroMet Major Business

Table 35. OTT HydroMet Smart Agricultural Weather Station Product and Services

Table 36. OTT HydroMet Smart Agricultural Weather Station Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 37. OTT HydroMet Recent Developments/Updates

Table 38. KMA Basic Information, Manufacturing Base and Competitors

Table 39. KMA Major Business

Table 40. KMA Smart Agricultural Weather Station Product and Services

Table 41. KMA Smart Agricultural Weather Station Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 42. KMA Recent Developments/Updates

Table 43. TOPCloud?Agri Basic Information, Manufacturing Base and Competitors

Table 44. TOPCloud?Agri Major Business

Table 45. TOPCloud?Agri Smart Agricultural Weather Station Product and Services

Table 46. TOPCloud?Agri Smart Agricultural Weather Station Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 47. TOPCloud?Agri Recent Developments/Updates

Table 48. Jingxun Changtong Basic Information, Manufacturing Base and Competitors

Table 49. Jingxun Changtong Major Business

Table 50. Jingxun Changtong Smart Agricultural Weather Station Product and Services

Table 51. Jingxun Changtong Smart Agricultural Weather Station Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 52. Jingxun Changtong Recent Developments/Updates

Table 53. Shandong Renk Control & Measurement Basic Information, Manufacturing Base and Competitors

Table 54. Shandong Renk Control & Measurement Major Business

Table 55. Shandong Renk Control & Measurement Smart Agricultural Weather Station Product and Services

Table 56. Shandong Renk Control & Measurement Smart Agricultural Weather Station Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 57. Shandong Renk Control & Measurement Recent Developments/Updates

Table 58. Shandong Fengtu IoT / Fengtu IoT Basic Information, Manufacturing Base and Competitors

Table 59. Shandong Fengtu IoT / Fengtu IoT Major Business

Table 60. Shandong Fengtu IoT / Fengtu IoT Smart Agricultural Weather Station Product and Services

Table 61. Shandong Fengtu IoT / Fengtu IoT Smart Agricultural Weather Station Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 62. Shandong Fengtu IoT / Fengtu IoT Recent Developments/Updates

Table 63. Jingdao Optoelectronics Basic Information, Manufacturing Base and Competitors

Table 64. Jingdao Optoelectronics Major Business

Table 65. Jingdao Optoelectronics Smart Agricultural Weather Station Product and Services

Table 66. Jingdao Optoelectronics Smart Agricultural Weather Station Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 67. Jingdao Optoelectronics Recent Developments/Updates

Table 68. Eiko Instruments Basic Information, Manufacturing Base and Competitors

Table 69. Eiko Instruments Major Business

Table 70. Eiko Instruments Smart Agricultural Weather Station Product and Services

Table 71. Eiko Instruments Smart Agricultural Weather Station Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Eiko Instruments Recent Developments/Updates

Table 73. WatchDog (Spectrum Technologies) Basic Information, Manufacturing Base and Competitors

Table 74. WatchDog (Spectrum Technologies) Major Business

Table 75. WatchDog (Spectrum Technologies) Smart Agricultural Weather Station Product and Services

Table 76. WatchDog (Spectrum Technologies) Smart Agricultural Weather Station Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 77. WatchDog (Spectrum Technologies) Recent Developments/Updates
Table 78. Lufft Basic Information, Manufacturing Base and Competitors
Table 79. Lufft Major Business
Table 80. Lufft Smart Agricultural Weather Station Product and Services
Table 81. Lufft Smart Agricultural Weather Station Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 82. Lufft Recent Developments/Updates
Table 83. Kestrel (NK Technologies) Basic Information, Manufacturing Base and Competitors
Table 84. Kestrel (NK Technologies) Major Business
Table 85. Kestrel (NK Technologies) Smart Agricultural Weather Station Product and Services
Table 86. Kestrel (NK Technologies) Smart Agricultural Weather Station Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 87. Kestrel (NK Technologies) Recent Developments/Updates
Table 88. Sony Basic Information, Manufacturing Base and Competitors
Table 89. Sony Major Business
Table 90. Sony Smart Agricultural Weather Station Product and Services
Table 91. Sony Smart Agricultural Weather Station Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 92. Sony Recent Developments/Updates
Table 93. Global Smart Agricultural Weather Station Sales Quantity by Manufacturer (2021-2026) & (Units)
Table 94. Global Smart Agricultural Weather Station Revenue by Manufacturer (2021-2026) & (USD Million)
Table 95. Global Smart Agricultural Weather Station Average Price by Manufacturer (2021-2026) & (US\$/Unit)
Table 96. Market Position of Manufacturers in Smart Agricultural Weather Station, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 97. Head Office and Smart Agricultural Weather Station Production Site of Key Manufacturer
Table 98. Smart Agricultural Weather Station Market: Company Product Type Footprint
Table 99. Smart Agricultural Weather Station Market: Company Product Application Footprint
Table 100. Smart Agricultural Weather Station New Market Entrants and Barriers to Market Entry
Table 101. Smart Agricultural Weather Station Mergers, Acquisition, Agreements, and Collaborations

Table 102. Global Smart Agricultural Weather Station Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 103. Global Smart Agricultural Weather Station Sales Quantity by Region (2021-2026) & (Units)

Table 104. Global Smart Agricultural Weather Station Sales Quantity by Region (2027-2032) & (Units)

Table 105. Global Smart Agricultural Weather Station Consumption Value by Region (2021-2026) & (USD Million)

Table 106. Global Smart Agricultural Weather Station Consumption Value by Region (2027-2032) & (USD Million)

Table 107. Global Smart Agricultural Weather Station Average Price by Region (2021-2026) & (US\$/Unit)

Table 108. Global Smart Agricultural Weather Station Average Price by Region (2027-2032) & (US\$/Unit)

Table 109. Global Smart Agricultural Weather Station Sales Quantity by Type (2021-2026) & (Units)

Table 110. Global Smart Agricultural Weather Station Sales Quantity by Type (2027-2032) & (Units)

Table 111. Global Smart Agricultural Weather Station Consumption Value by Type (2021-2026) & (USD Million)

Table 112. Global Smart Agricultural Weather Station Consumption Value by Type (2027-2032) & (USD Million)

Table 113. Global Smart Agricultural Weather Station Average Price by Type (2021-2026) & (US\$/Unit)

Table 114. Global Smart Agricultural Weather Station Average Price by Type (2027-2032) & (US\$/Unit)

Table 115. Global Smart Agricultural Weather Station Sales Quantity by Technology (2021-2026) & (Units)

Table 116. Global Smart Agricultural Weather Station Sales Quantity by Technology (2027-2032) & (Units)

Table 117. Global Smart Agricultural Weather Station Consumption Value by Technology (2021-2026) & (USD Million)

Table 118. Global Smart Agricultural Weather Station Consumption Value by Technology (2027-2032) & (USD Million)

Table 119. Global Smart Agricultural Weather Station Average Price by Technology (2021-2026) & (US\$/Unit)

Table 120. Global Smart Agricultural Weather Station Average Price by Technology (2027-2032) & (US\$/Unit)

Table 121. North America Smart Agricultural Weather Station Sales Quantity by Type

(2021-2026) & (Units)

Table 122. North America Smart Agricultural Weather Station Sales Quantity by Type (2027-2032) & (Units)

Table 123. North America Smart Agricultural Weather Station Sales Quantity by Technology (2021-2026) & (Units)

Table 124. North America Smart Agricultural Weather Station Sales Quantity by Technology (2027-2032) & (Units)

Table 125. North America Smart Agricultural Weather Station Sales Quantity by Country (2021-2026) & (Units)

Table 126. North America Smart Agricultural Weather Station Sales Quantity by Country (2027-2032) & (Units)

Table 127. North America Smart Agricultural Weather Station Consumption Value by Country (2021-2026) & (USD Million)

Table 128. North America Smart Agricultural Weather Station Consumption Value by Country (2027-2032) & (USD Million)

Table 129. Europe Smart Agricultural Weather Station Sales Quantity by Type (2021-2026) & (Units)

Table 130. Europe Smart Agricultural Weather Station Sales Quantity by Type (2027-2032) & (Units)

Table 131. Europe Smart Agricultural Weather Station Sales Quantity by Technology (2021-2026) & (Units)

Table 132. Europe Smart Agricultural Weather Station Sales Quantity by Technology (2027-2032) & (Units)

Table 133. Europe Smart Agricultural Weather Station Sales Quantity by Country (2021-2026) & (Units)

Table 134. Europe Smart Agricultural Weather Station Sales Quantity by Country (2027-2032) & (Units)

Table 135. Europe Smart Agricultural Weather Station Consumption Value by Country (2021-2026) & (USD Million)

Table 136. Europe Smart Agricultural Weather Station Consumption Value by Country (2027-2032) & (USD Million)

Table 137. Asia-Pacific Smart Agricultural Weather Station Sales Quantity by Type (2021-2026) & (Units)

Table 138. Asia-Pacific Smart Agricultural Weather Station Sales Quantity by Type (2027-2032) & (Units)

Table 139. Asia-Pacific Smart Agricultural Weather Station Sales Quantity by Technology (2021-2026) & (Units)

Table 140. Asia-Pacific Smart Agricultural Weather Station Sales Quantity by Technology (2027-2032) & (Units)

Table 141. Asia-Pacific Smart Agricultural Weather Station Sales Quantity by Region (2021-2026) & (Units)

Table 142. Asia-Pacific Smart Agricultural Weather Station Sales Quantity by Region (2027-2032) & (Units)

Table 143. Asia-Pacific Smart Agricultural Weather Station Consumption Value by Region (2021-2026) & (USD Million)

Table 144. Asia-Pacific Smart Agricultural Weather Station Consumption Value by Region (2027-2032) & (USD Million)

Table 145. South America Smart Agricultural Weather Station Sales Quantity by Type (2021-2026) & (Units)

Table 146. South America Smart Agricultural Weather Station Sales Quantity by Type (2027-2032) & (Units)

Table 147. South America Smart Agricultural Weather Station Sales Quantity by Technology (2021-2026) & (Units)

Table 148. South America Smart Agricultural Weather Station Sales Quantity by Technology (2027-2032) & (Units)

Table 149. South America Smart Agricultural Weather Station Sales Quantity by Country (2021-2026) & (Units)

Table 150. South America Smart Agricultural Weather Station Sales Quantity by Country (2027-2032) & (Units)

Table 151. South America Smart Agricultural Weather Station Consumption Value by Country (2021-2026) & (USD Million)

Table 152. South America Smart Agricultural Weather Station Consumption Value by Country (2027-2032) & (USD Million)

Table 153. Middle East & Africa Smart Agricultural Weather Station Sales Quantity by Type (2021-2026) & (Units)

Table 154. Middle East & Africa Smart Agricultural Weather Station Sales Quantity by Type (2027-2032) & (Units)

Table 155. Middle East & Africa Smart Agricultural Weather Station Sales Quantity by Technology (2021-2026) & (Units)

Table 156. Middle East & Africa Smart Agricultural Weather Station Sales Quantity by Technology (2027-2032) & (Units)

Table 157. Middle East & Africa Smart Agricultural Weather Station Sales Quantity by Country (2021-2026) & (Units)

Table 158. Middle East & Africa Smart Agricultural Weather Station Sales Quantity by Country (2027-2032) & (Units)

Table 159. Middle East & Africa Smart Agricultural Weather Station Consumption Value by Country (2021-2026) & (USD Million)

Table 160. Middle East & Africa Smart Agricultural Weather Station Consumption Value

by Country (2027-2032) & (USD Million)

Table 161. Smart Agricultural Weather Station Raw Material

Table 162. Key Manufacturers of Smart Agricultural Weather Station Raw Materials

Table 163. Smart Agricultural Weather Station Typical Distributors

Table 164. Smart Agricultural Weather Station Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Smart Agricultural Weather Station Picture

Figure 2. Global Smart Agricultural Weather Station Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Smart Agricultural Weather Station Revenue Market Share by Type in 2025

Figure 4. Portable Agricultural Weather Station Examples

Figure 5. Fixed Agricultural Weather Station Examples

Figure 6. Basic Agricultural Weather Station Examples

Figure 7. Multi-parameter Agricultural Weather Station Examples

Figure 8. Smart Connected Agricultural Weather Station Examples

Figure 9. Wired Transmission Type Examples

Figure 10. Wireless Transmission Type Examples

Figure 11. IoT Cloud Platform Type Examples

Figure 12. Global Smart Agricultural Weather Station Consumption Value by Technology, (USD Million), 2021 & 2025 & 2032

Figure 13. Global Smart Agricultural Weather Station Revenue Market Share by Technology in 2025

Figure 14. Agriculture Examples

Figure 15. Forestry Examples

Figure 16. Animal Husbandry Examples

Figure 17. Global Smart Agricultural Weather Station Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 18. Global Smart Agricultural Weather Station Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 19. Global Smart Agricultural Weather Station Sales Quantity (2021-2032) & (Units)

Figure 20. Global Smart Agricultural Weather Station Price (2021-2032) & (US\$/Unit)

Figure 21. Global Smart Agricultural Weather Station Sales Quantity Market Share by Manufacturer in 2025

Figure 22. Global Smart Agricultural Weather Station Revenue Market Share by Manufacturer in 2025

Figure 23. Producer Shipments of Smart Agricultural Weather Station by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 24. Top 3 Smart Agricultural Weather Station Manufacturer (Revenue) Market Share in 2025

Figure 25. Top 6 Smart Agricultural Weather Station Manufacturer (Revenue) Market Share in 2025

Figure 26. Global Smart Agricultural Weather Station Sales Quantity Market Share by Region (2021-2032)

Figure 27. Global Smart Agricultural Weather Station Consumption Value Market Share by Region (2021-2032)

Figure 28. North America Smart Agricultural Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 29. Europe Smart Agricultural Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 30. Asia-Pacific Smart Agricultural Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 31. South America Smart Agricultural Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 32. Middle East & Africa Smart Agricultural Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 33. Global Smart Agricultural Weather Station Sales Quantity Market Share by Type (2021-2032)

Figure 34. Global Smart Agricultural Weather Station Consumption Value Market Share by Type (2021-2032)

Figure 35. Global Smart Agricultural Weather Station Average Price by Type (2021-2032) & (US\$/Unit)

Figure 36. Global Smart Agricultural Weather Station Sales Quantity Market Share by Technology (2021-2032)

Figure 37. Global Smart Agricultural Weather Station Revenue Market Share by Technology (2021-2032)

Figure 38. Global Smart Agricultural Weather Station Average Price by Technology (2021-2032) & (US\$/Unit)

Figure 39. North America Smart Agricultural Weather Station Sales Quantity Market Share by Type (2021-2032)

Figure 40. North America Smart Agricultural Weather Station Sales Quantity Market Share by Technology (2021-2032)

Figure 41. North America Smart Agricultural Weather Station Sales Quantity Market Share by Country (2021-2032)

Figure 42. North America Smart Agricultural Weather Station Consumption Value Market Share by Country (2021-2032)

Figure 43. United States Smart Agricultural Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 44. Canada Smart Agricultural Weather Station Consumption Value (2021-2032)

& (USD Million)

Figure 45. Mexico Smart Agricultural Weather Station Consumption Value (2021-2032)

& (USD Million)

Figure 46. Europe Smart Agricultural Weather Station Sales Quantity Market Share by Type (2021-2032)

Figure 47. Europe Smart Agricultural Weather Station Sales Quantity Market Share by Technology (2021-2032)

Figure 48. Europe Smart Agricultural Weather Station Sales Quantity Market Share by Country (2021-2032)

Figure 49. Europe Smart Agricultural Weather Station Consumption Value Market Share by Country (2021-2032)

Figure 50. Germany Smart Agricultural Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 51. France Smart Agricultural Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 52. United Kingdom Smart Agricultural Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 53. Russia Smart Agricultural Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 54. Italy Smart Agricultural Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 55. Asia-Pacific Smart Agricultural Weather Station Sales Quantity Market Share by Type (2021-2032)

Figure 56. Asia-Pacific Smart Agricultural Weather Station Sales Quantity Market Share by Technology (2021-2032)

Figure 57. Asia-Pacific Smart Agricultural Weather Station Sales Quantity Market Share by Region (2021-2032)

Figure 58. Asia-Pacific Smart Agricultural Weather Station Consumption Value Market Share by Region (2021-2032)

Figure 59. China Smart Agricultural Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 60. Japan Smart Agricultural Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 61. South Korea Smart Agricultural Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 62. India Smart Agricultural Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 63. Southeast Asia Smart Agricultural Weather Station Consumption Value (2021-2032) & (USD Million)

- Figure 64. Australia Smart Agricultural Weather Station Consumption Value (2021-2032) & (USD Million)
- Figure 65. South America Smart Agricultural Weather Station Sales Quantity Market Share by Type (2021-2032)
- Figure 66. South America Smart Agricultural Weather Station Sales Quantity Market Share by Technology (2021-2032)
- Figure 67. South America Smart Agricultural Weather Station Sales Quantity Market Share by Country (2021-2032)
- Figure 68. South America Smart Agricultural Weather Station Consumption Value Market Share by Country (2021-2032)
- Figure 69. Brazil Smart Agricultural Weather Station Consumption Value (2021-2032) & (USD Million)
- Figure 70. Argentina Smart Agricultural Weather Station Consumption Value (2021-2032) & (USD Million)
- Figure 71. Middle East & Africa Smart Agricultural Weather Station Sales Quantity Market Share by Type (2021-2032)
- Figure 72. Middle East & Africa Smart Agricultural Weather Station Sales Quantity Market Share by Technology (2021-2032)
- Figure 73. Middle East & Africa Smart Agricultural Weather Station Sales Quantity Market Share by Country (2021-2032)
- Figure 74. Middle East & Africa Smart Agricultural Weather Station Consumption Value Market Share by Country (2021-2032)
- Figure 75. Turkey Smart Agricultural Weather Station Consumption Value (2021-2032) & (USD Million)
- Figure 76. Egypt Smart Agricultural Weather Station Consumption Value (2021-2032) & (USD Million)
- Figure 77. Saudi Arabia Smart Agricultural Weather Station Consumption Value (2021-2032) & (USD Million)
- Figure 78. South Africa Smart Agricultural Weather Station Consumption Value (2021-2032) & (USD Million)
- Figure 79. Smart Agricultural Weather Station Market Drivers
- Figure 80. Smart Agricultural Weather Station Market Restraints
- Figure 81. Smart Agricultural Weather Station Market Trends
- Figure 82. Porters Five Forces Analysis
- Figure 83. Manufacturing Cost Structure Analysis of Smart Agricultural Weather Station in 2025
- Figure 84. Manufacturing Process Analysis of Smart Agricultural Weather Station
- Figure 85. Smart Agricultural Weather Station Industrial Chain
- Figure 86. Sales Channel: Direct to End-User vs Distributors

Figure 87. Direct Channel Pros & Cons

Figure 88. Indirect Channel Pros & Cons

Figure 89. Methodology

Figure 90. Research Process and Data Source

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