

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

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Abstracts

The global Field Weather Station market size is expected to reach \$ 1433 million by 2032, rising at a market growth of 6.9% CAGR during the forecast period (2026-2032).

A Field Weather Station is an automated meteorological observation system deployed outdoors in natural environments or agricultural fields for real-time climatic data acquisition. The station typically comprises multiple sensor modules, a data acquisition unit, a power supply system, a communication interface, and supporting structural elements. Sensor modules generally include thermometers, humidity sensors, anemometers, rain gauges, barometers, and radiometric sensors to capture temperature, humidity, wind speed and direction, precipitation, atmospheric pressure, and solar radiation.

The overall design of the device is modular and compact to withstand outdoor exposure, extreme temperatures, and weather stress. Based on communication method and automation level, field weather stations can be categorized into wired systems, wireless transmission systems, and remote stations using satellite or cellular networks. Based on power supply, they may be grid-powered, solar-powered, or hybrid.

These systems are widely used in agricultural climate monitoring, meteorological forecasting support, environmental surveillance, disaster early warning, and water resources management, providing high spatiotemporal resolution real-time data for crop growth decision-making, precision irrigation scheduling, and regional climate analysis.

The global Field Weather Station market demonstrates a steady growth trajectory, primarily driven by technological innovation, the promotion of smart agriculture, and

increasing environmental monitoring needs. With enhanced sensor accuracy, improved data communication capabilities, and the maturation of IoT applications, automated, remote monitoring and high spatiotemporal resolution data acquisition have become feasible, providing continuous expansion opportunities for the market. The acceleration of agricultural modernization, precision farming, water-saving irrigation, crop growth management, and meteorological disaster early warning increasingly rely on real-time climatic data, making the deployment of field weather stations essential infrastructure for farms and research institutions. Simultaneously, global climate change and the rise of extreme weather events have led governments and environmental agencies to invest heavily in meteorological observation networks, offering policy and funding support that drives continuous market growth.

Nevertheless, several challenges persist in the market. Firstly, the cost of field weather stations, particularly high-precision, multi-parameter automatic stations, is relatively high, presenting a purchasing barrier for small- and medium-sized farms and limiting adoption speed. Secondly, long-term outdoor deployment faces technical challenges such as environmental corrosion, power supply reliability, and stable data transmission, necessitating robust R&D and after-sales support. Thirdly, the presence of numerous market participants and inconsistent product standards and interfaces hinder data interoperability and system integration, adding complexity to large-scale client or government project implementation. Furthermore, regional variations in regulations, standards, and policies require compliance in cross-border sales and deployment, increasing operational risks for manufacturers.

Downstream demand trends show diversification and increased precision. In agriculture, crop growth modeling, precision irrigation, and pest monitoring drive demand for high-frequency, real-time meteorological data, boosting adoption of multi-parameter, automated field weather stations. In research institutions and environmental monitoring, long-term data records and high-resolution observations are critical for research and decision-making, increasing demand for highly reliable products with strong remote communication capabilities. Additionally, with the development of smart cities, ecological monitoring, and disaster prevention and mitigation systems, non-agricultural applications for field weather stations are expanding, creating new growth opportunities for vendors. Overall, technological iteration, policy support, and diversified downstream applications will continue to expand market size, while manufacturers must focus on cost optimization, system standardization, and service reliability to address challenges and achieve sustainable growth.

This report studies the global Field Weather Station production, demand, key

manufacturers, and key regions.

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

Highlights and key features of the study

Global Field Weather Station total production and demand, 2021-2032, (K Units)

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

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

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

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

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

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

Global Field Weather Station production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Field 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 Campbell Scientific, Vaisala Oyj, Optical Scientific, Inc., Mesotech International, Inc., R. M. Young Company, OTT HydroMet GmbH, Gill Instruments Limited, Met One Instruments, Inc., Sutron Corporation, Pessl Instruments GmbH, 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 Field Weather Station market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Field Weather Station Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Field Weather Station Market, Segmentation by Type:

Electric

Solar Energy

Others

Global Field Weather Station Market, Segmentation by Manufacturing Process:

Modular Assembly

Integrated Cast

3D Printed Components

Welded Frame

Global Field Weather Station Market, Segmentation by Raw Material:

Aluminum Alloy

Stainless Steel

Polycarbonate

Composite Material

Global Field Weather Station Market, Segmentation by Physical Structure:

Single-Sensor Tower

Multi-Sensor Mast

Enclosed Station Cabinet

Portable Field Unit

Global Field Weather Station Market, Segmentation by Application:

Control Pests

Climate Monitoring

Soil Temperature Monitoring

Others

Companies Profiled:

Campbell Scientific

Vaisala Oyj

Optical Scientific, Inc.

Mesotech International, Inc.

R. M. Young Company

OTT HydroMet GmbH

Gill Instruments Limited

Met One Instruments, Inc.

Sutron Corporation

Pessl Instruments GmbH

Davis Instruments

Yantai Sensor Co., Ltd.

Chongqing Tangtian Technology Co., Ltd.

Shandong Renke Control Technology Co., Ltd.

Xiamen Chenmai Wisdom Technology Co., Ltd.

Shenzhen Yifan Technology Co., Ltd.

Key Questions Answered:

1. How big is the global Field Weather Station market?
2. What is the demand of the global Field Weather Station market?
3. What is the year over year growth of the global Field Weather Station market?

4. What is the production and production value of the global Field Weather Station market?
5. Who are the key producers in the global Field Weather Station market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Field Weather Station Introduction
- 1.2 World Field Weather Station Supply & Forecast
 - 1.2.1 World Field Weather Station Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Field Weather Station Production (2021-2032)
 - 1.2.3 World Field Weather Station Pricing Trends (2021-2032)
- 1.3 World Field Weather Station Production by Region (Based on Production Site)
 - 1.3.1 World Field Weather Station Production Value by Region (2021-2032)
 - 1.3.2 World Field Weather Station Production by Region (2021-2032)
 - 1.3.3 World Field Weather Station Average Price by Region (2021-2032)
 - 1.3.4 North America Field Weather Station Production (2021-2032)
 - 1.3.5 Europe Field Weather Station Production (2021-2032)
 - 1.3.6 China Field Weather Station Production (2021-2032)
 - 1.3.7 Japan Field Weather Station Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Field Weather Station Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Field Weather Station Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Field Weather Station Demand (2021-2032)
- 2.2 World Field Weather Station Consumption by Region
 - 2.2.1 World Field Weather Station Consumption by Region (2021-2026)
 - 2.2.2 World Field Weather Station Consumption Forecast by Region (2027-2032)
- 2.3 United States Field Weather Station Consumption (2021-2032)
- 2.4 China Field Weather Station Consumption (2021-2032)
- 2.5 Europe Field Weather Station Consumption (2021-2032)
- 2.6 Japan Field Weather Station Consumption (2021-2032)
- 2.7 South Korea Field Weather Station Consumption (2021-2032)
- 2.8 ASEAN Field Weather Station Consumption (2021-2032)
- 2.9 India Field Weather Station Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Field Weather Station Production Value by Manufacturer (2021-2026)

- 3.2 World Field Weather Station Production by Manufacturer (2021-2026)
- 3.3 World Field Weather Station Average Price by Manufacturer (2021-2026)
- 3.4 Field Weather Station Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Field Weather Station Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Field Weather Station in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Field Weather Station in 2025
- 3.6 Field Weather Station Market: Overall Company Footprint Analysis
 - 3.6.1 Field Weather Station Market: Region Footprint
 - 3.6.2 Field Weather Station Market: Company Product Type Footprint
 - 3.6.3 Field Weather Station Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Field Weather Station Production Value Comparison
 - 4.1.1 United States VS China: Field Weather Station Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Field Weather Station Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Field Weather Station Production Comparison
 - 4.2.1 United States VS China: Field Weather Station Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Field Weather Station Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Field Weather Station Consumption Comparison
 - 4.3.1 United States VS China: Field Weather Station Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Field Weather Station Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Field Weather Station Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Field Weather Station Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Field Weather Station Production Value (2021-2026)

4.4.3 United States Based Manufacturers Field Weather Station Production (2021-2026)

4.5 China Based Field Weather Station Manufacturers and Market Share

4.5.1 China Based Field Weather Station Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Field Weather Station Production Value (2021-2026)

4.5.3 China Based Manufacturers Field Weather Station Production (2021-2026)

4.6 Rest of World Based Field Weather Station Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Field Weather Station Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Field Weather Station Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Field Weather Station Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Field Weather Station Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Electric

5.2.2 Solar Energy

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Field Weather Station Production by Type (2021-2032)

5.3.2 World Field Weather Station Production Value by Type (2021-2032)

5.3.3 World Field Weather Station Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY MANUFACTURING PROCESS

6.1 World Field Weather Station Market Size Overview by Manufacturing Process: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Manufacturing Process

6.2.1 Modular Assembly

6.2.2 Integrated Cast

6.2.3 3D Printed Components

6.2.4 Welded Frame

6.3 Market Segment by Manufacturing Process

6.3.1 World Field Weather Station Production by Manufacturing Process (2021-2032)

6.3.2 World Field Weather Station Production Value by Manufacturing Process (2021-2032)

6.3.3 World Field Weather Station Average Price by Manufacturing Process (2021-2032)

7 MARKET ANALYSIS BY RAW MATERIAL

7.1 World Field Weather Station Market Size Overview by Raw Material: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Raw Material

7.2.1 Aluminum Alloy

7.2.2 Stainless Steel

7.2.3 Polycarbonate

7.2.4 Composite Material

7.3 Market Segment by Raw Material

7.3.1 World Field Weather Station Production by Raw Material (2021-2032)

7.3.2 World Field Weather Station Production Value by Raw Material (2021-2032)

7.3.3 World Field Weather Station Average Price by Raw Material (2021-2032)

8 MARKET ANALYSIS BY PHYSICAL STRUCTURE

8.1 World Field Weather Station Market Size Overview by Physical Structure: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Physical Structure

8.2.1 Single-Sensor Tower

8.2.2 Multi-Sensor Mast

8.2.3 Enclosed Station Cabinet

8.2.4 Portable Field Unit

8.3 Market Segment by Physical Structure

8.3.1 World Field Weather Station Production by Physical Structure (2021-2032)

8.3.2 World Field Weather Station Production Value by Physical Structure (2021-2032)

8.3.3 World Field Weather Station Average Price by Physical Structure (2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World Field Weather Station Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 Control Pests

9.2.2 Climate Monitoring

9.2.3 Soil Temperature Monitoring

9.2.4 Others

9.3 Market Segment by Application

9.3.1 World Field Weather Station Production by Application (2021-2032)

9.3.2 World Field Weather Station Production Value by Application (2021-2032)

9.3.3 World Field Weather Station Average Price by Application (2021-2032)

10 COMPANY PROFILES

10.1 Campbell Scientific

10.1.1 Campbell Scientific Details

10.1.2 Campbell Scientific Major Business

10.1.3 Campbell Scientific Field Weather Station Product and Services

10.1.4 Campbell Scientific Field Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.1.5 Campbell Scientific Recent Developments/Updates

10.1.6 Campbell Scientific Competitive Strengths & Weaknesses

10.2 Vaisala Oyj

10.2.1 Vaisala Oyj Details

10.2.2 Vaisala Oyj Major Business

10.2.3 Vaisala Oyj Field Weather Station Product and Services

10.2.4 Vaisala Oyj Field Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.2.5 Vaisala Oyj Recent Developments/Updates

10.2.6 Vaisala Oyj Competitive Strengths & Weaknesses

10.3 Optical Scientific, Inc.

10.3.1 Optical Scientific, Inc. Details

10.3.2 Optical Scientific, Inc. Major Business

10.3.3 Optical Scientific, Inc. Field Weather Station Product and Services

10.3.4 Optical Scientific, Inc. Field Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.3.5 Optical Scientific, Inc. Recent Developments/Updates

10.3.6 Optical Scientific, Inc. Competitive Strengths & Weaknesses

10.4 Mesotech International, Inc.

10.4.1 Mesotech International, Inc. Details

10.4.2 Mesotech International, Inc. Major Business

- 10.4.3 Mesotech International, Inc. Field Weather Station Product and Services
- 10.4.4 Mesotech International, Inc. Field Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.4.5 Mesotech International, Inc. Recent Developments/Updates
- 10.4.6 Mesotech International, Inc. Competitive Strengths & Weaknesses
- 10.5 R. M. Young Company
 - 10.5.1 R. M. Young Company Details
 - 10.5.2 R. M. Young Company Major Business
 - 10.5.3 R. M. Young Company Field Weather Station Product and Services
 - 10.5.4 R. M. Young Company Field Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.5.5 R. M. Young Company Recent Developments/Updates
 - 10.5.6 R. M. Young Company Competitive Strengths & Weaknesses
- 10.6 OTT HydroMet GmbH
 - 10.6.1 OTT HydroMet GmbH Details
 - 10.6.2 OTT HydroMet GmbH Major Business
 - 10.6.3 OTT HydroMet GmbH Field Weather Station Product and Services
 - 10.6.4 OTT HydroMet GmbH Field Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.6.5 OTT HydroMet GmbH Recent Developments/Updates
 - 10.6.6 OTT HydroMet GmbH Competitive Strengths & Weaknesses
- 10.7 Gill Instruments Limited
 - 10.7.1 Gill Instruments Limited Details
 - 10.7.2 Gill Instruments Limited Major Business
 - 10.7.3 Gill Instruments Limited Field Weather Station Product and Services
 - 10.7.4 Gill Instruments Limited Field Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.7.5 Gill Instruments Limited Recent Developments/Updates
 - 10.7.6 Gill Instruments Limited Competitive Strengths & Weaknesses
- 10.8 Met One Instruments, Inc.
 - 10.8.1 Met One Instruments, Inc. Details
 - 10.8.2 Met One Instruments, Inc. Major Business
 - 10.8.3 Met One Instruments, Inc. Field Weather Station Product and Services
 - 10.8.4 Met One Instruments, Inc. Field Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.8.5 Met One Instruments, Inc. Recent Developments/Updates
 - 10.8.6 Met One Instruments, Inc. Competitive Strengths & Weaknesses
- 10.9 Sutron Corporation
 - 10.9.1 Sutron Corporation Details

- 10.9.2 Sutron Corporation Major Business
- 10.9.3 Sutron Corporation Field Weather Station Product and Services
- 10.9.4 Sutron Corporation Field Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.9.5 Sutron Corporation Recent Developments/Updates
- 10.9.6 Sutron Corporation Competitive Strengths & Weaknesses
- 10.10 Pessl Instruments GmbH
- 10.10.1 Pessl Instruments GmbH Details
- 10.10.2 Pessl Instruments GmbH Major Business
- 10.10.3 Pessl Instruments GmbH Field Weather Station Product and Services
- 10.10.4 Pessl Instruments GmbH Field Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.10.5 Pessl Instruments GmbH Recent Developments/Updates
- 10.10.6 Pessl Instruments GmbH Competitive Strengths & Weaknesses
- 10.11 Davis Instruments
- 10.11.1 Davis Instruments Details
- 10.11.2 Davis Instruments Major Business
- 10.11.3 Davis Instruments Field Weather Station Product and Services
- 10.11.4 Davis Instruments Field Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.11.5 Davis Instruments Recent Developments/Updates
- 10.11.6 Davis Instruments Competitive Strengths & Weaknesses
- 10.12 Yantai Sensor Co., Ltd.
- 10.12.1 Yantai Sensor Co., Ltd. Details
- 10.12.2 Yantai Sensor Co., Ltd. Major Business
- 10.12.3 Yantai Sensor Co., Ltd. Field Weather Station Product and Services
- 10.12.4 Yantai Sensor Co., Ltd. Field Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.12.5 Yantai Sensor Co., Ltd. Recent Developments/Updates
- 10.12.6 Yantai Sensor Co., Ltd. Competitive Strengths & Weaknesses
- 10.13 Chongqing Tangtian Technology Co., Ltd.
- 10.13.1 Chongqing Tangtian Technology Co., Ltd. Details
- 10.13.2 Chongqing Tangtian Technology Co., Ltd. Major Business
- 10.13.3 Chongqing Tangtian Technology Co., Ltd. Field Weather Station Product and Services
- 10.13.4 Chongqing Tangtian Technology Co., Ltd. Field Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.13.5 Chongqing Tangtian Technology Co., Ltd. Recent Developments/Updates
- 10.13.6 Chongqing Tangtian Technology Co., Ltd. Competitive Strengths &

Weaknesses

10.14 Shandong Renke Control Technology Co., Ltd.

10.14.1 Shandong Renke Control Technology Co., Ltd. Details

10.14.2 Shandong Renke Control Technology Co., Ltd. Major Business

10.14.3 Shandong Renke Control Technology Co., Ltd. Field Weather Station Product and Services

10.14.4 Shandong Renke Control Technology Co., Ltd. Field Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.14.5 Shandong Renke Control Technology Co., Ltd. Recent Developments/Updates

10.14.6 Shandong Renke Control Technology Co., Ltd. Competitive Strengths &

Weaknesses

10.15 Xiamen Chenmai Wisdom Technology Co., Ltd.

10.15.1 Xiamen Chenmai Wisdom Technology Co., Ltd. Details

10.15.2 Xiamen Chenmai Wisdom Technology Co., Ltd. Major Business

10.15.3 Xiamen Chenmai Wisdom Technology Co., Ltd. Field Weather Station Product and Services

10.15.4 Xiamen Chenmai Wisdom Technology Co., Ltd. Field Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.15.5 Xiamen Chenmai Wisdom Technology Co., Ltd. Recent Developments/Updates

10.15.6 Xiamen Chenmai Wisdom Technology Co., Ltd. Competitive Strengths &

Weaknesses

10.16 Shenzhen Yifan Technology Co., Ltd.

10.16.1 Shenzhen Yifan Technology Co., Ltd. Details

10.16.2 Shenzhen Yifan Technology Co., Ltd. Major Business

10.16.3 Shenzhen Yifan Technology Co., Ltd. Field Weather Station Product and Services

10.16.4 Shenzhen Yifan Technology Co., Ltd. Field Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.16.5 Shenzhen Yifan Technology Co., Ltd. Recent Developments/Updates

10.16.6 Shenzhen Yifan Technology Co., Ltd. Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

11.1 Field Weather Station Industry Chain

11.2 Field Weather Station Upstream Analysis

11.2.1 Field Weather Station Core Raw Materials

11.2.2 Main Manufacturers of Field Weather Station Core Raw Materials

11.3 Midstream Analysis

11.4 Downstream Analysis

11.5 Field Weather Station Production Mode

11.6 Field Weather Station Procurement Model

11.7 Field Weather Station Industry Sales Model and Sales Channels

11.7.1 Field Weather Station Sales Model

11.7.2 Field Weather Station Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

13.1 Methodology

13.2 Research Process and Data Source

13.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Field Weather Station Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Field Weather Station Production Value by Region (2021-2026) & (USD Million)

Table 3. World Field Weather Station Production Value by Region (2027-2032) & (USD Million)

Table 4. World Field Weather Station Production Value Market Share by Region (2021-2026)

Table 5. World Field Weather Station Production Value Market Share by Region (2027-2032)

Table 6. World Field Weather Station Production by Region (2021-2026) & (K Units)

Table 7. World Field Weather Station Production by Region (2027-2032) & (K Units)

Table 8. World Field Weather Station Production Market Share by Region (2021-2026)

Table 9. World Field Weather Station Production Market Share by Region (2027-2032)

Table 10. World Field Weather Station Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Field Weather Station Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Field Weather Station Major Market Trends

Table 13. World Field Weather Station Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Field Weather Station Consumption by Region (2021-2026) & (K Units)

Table 15. World Field Weather Station Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Field Weather Station Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Field Weather Station Producers in 2025

Table 18. World Field Weather Station Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Field Weather Station Producers in 2025

Table 20. World Field Weather Station Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Field Weather Station Company Evaluation Quadrant

Table 22. World Field Weather Station Industry Rank of Major Manufacturers, Based on

Production Value in 2025

Table 23. Head Office and Field Weather Station Production Site of Key Manufacturer

Table 24. Field Weather Station Market: Company Product Type Footprint

Table 25. Field Weather Station Market: Company Product Application Footprint

Table 26. Field Weather Station Competitive Factors

Table 27. Field Weather Station New Entrant and Capacity Expansion Plans

Table 28. Field Weather Station Mergers & Acquisitions Activity

Table 29. United States VS China Field Weather Station Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Field Weather Station Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Field Weather Station Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Field Weather Station Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Field Weather Station Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Field Weather Station Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Field Weather Station Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Field Weather Station Production Market Share (2021-2026)

Table 37. China Based Field Weather Station Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Field Weather Station Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Field Weather Station Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Field Weather Station Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Field Weather Station Production Market Share (2021-2026)

Table 42. Rest of World Based Field Weather Station Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Field Weather Station Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Field Weather Station Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Field Weather Station Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Field Weather Station Production Market Share (2021-2026)

Table 47. World Field Weather Station Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Field Weather Station Production by Type (2021-2026) & (K Units)

Table 49. World Field Weather Station Production by Type (2027-2032) & (K Units)

Table 50. World Field Weather Station Production Value by Type (2021-2026) & (USD Million)

Table 51. World Field Weather Station Production Value by Type (2027-2032) & (USD Million)

Table 52. World Field Weather Station Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Field Weather Station Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Field Weather Station Production Value by Manufacturing Process, (USD Million), 2021 & 2025 & 2032

Table 55. World Field Weather Station Production by Manufacturing Process (2021-2026) & (K Units)

Table 56. World Field Weather Station Production by Manufacturing Process (2027-2032) & (K Units)

Table 57. World Field Weather Station Production Value by Manufacturing Process (2021-2026) & (USD Million)

Table 58. World Field Weather Station Production Value by Manufacturing Process (2027-2032) & (USD Million)

Table 59. World Field Weather Station Average Price by Manufacturing Process (2021-2026) & (US\$/Unit)

Table 60. World Field Weather Station Average Price by Manufacturing Process (2027-2032) & (US\$/Unit)

Table 61. World Field Weather Station Production Value by Raw Material, (USD Million), 2021 & 2025 & 2032

Table 62. World Field Weather Station Production by Raw Material (2021-2026) & (K Units)

Table 63. World Field Weather Station Production by Raw Material (2027-2032) & (K Units)

Table 64. World Field Weather Station Production Value by Raw Material (2021-2026) & (USD Million)

Table 65. World Field Weather Station Production Value by Raw Material (2027-2032) & (USD Million)

Table 66. World Field Weather Station Average Price by Raw Material (2021-2026) &

(US\$/Unit)

Table 67. World Field Weather Station Average Price by Raw Material (2027-2032) & (US\$/Unit)

Table 68. World Field Weather Station Production Value by Physical Structure, (USD Million), 2021 & 2025 & 2032

Table 69. World Field Weather Station Production by Physical Structure (2021-2026) & (K Units)

Table 70. World Field Weather Station Production by Physical Structure (2027-2032) & (K Units)

Table 71. World Field Weather Station Production Value by Physical Structure (2021-2026) & (USD Million)

Table 72. World Field Weather Station Production Value by Physical Structure (2027-2032) & (USD Million)

Table 73. World Field Weather Station Average Price by Physical Structure (2021-2026) & (US\$/Unit)

Table 74. World Field Weather Station Average Price by Physical Structure (2027-2032) & (US\$/Unit)

Table 75. World Field Weather Station Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 76. World Field Weather Station Production by Application (2021-2026) & (K Units)

Table 77. World Field Weather Station Production by Application (2027-2032) & (K Units)

Table 78. World Field Weather Station Production Value by Application (2021-2026) & (USD Million)

Table 79. World Field Weather Station Production Value by Application (2027-2032) & (USD Million)

Table 80. World Field Weather Station Average Price by Application (2021-2026) & (US\$/Unit)

Table 81. World Field Weather Station Average Price by Application (2027-2032) & (US\$/Unit)

Table 82. Campbell Scientific Basic Information, Manufacturing Base and Competitors

Table 83. Campbell Scientific Major Business

Table 84. Campbell Scientific Field Weather Station Product and Services

Table 85. Campbell Scientific Field Weather Station Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 86. Campbell Scientific Recent Developments/Updates

Table 87. Campbell Scientific Competitive Strengths & Weaknesses

Table 88. Vaisala Oyj Basic Information, Manufacturing Base and Competitors

Table 89. Vaisala Oyj Major Business

Table 90. Vaisala Oyj Field Weather Station Product and Services

Table 91. Vaisala Oyj Field Weather Station Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 92. Vaisala Oyj Recent Developments/Updates

Table 93. Vaisala Oyj Competitive Strengths & Weaknesses

Table 94. Optical Scientific, Inc. Basic Information, Manufacturing Base and Competitors

Table 95. Optical Scientific, Inc. Major Business

Table 96. Optical Scientific, Inc. Field Weather Station Product and Services

Table 97. Optical Scientific, Inc. Field Weather Station Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 98. Optical Scientific, Inc. Recent Developments/Updates

Table 99. Optical Scientific, Inc. Competitive Strengths & Weaknesses

Table 100. Mesotech International, Inc. Basic Information, Manufacturing Base and Competitors

Table 101. Mesotech International, Inc. Major Business

Table 102. Mesotech International, Inc. Field Weather Station Product and Services

Table 103. Mesotech International, Inc. Field Weather Station Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 104. Mesotech International, Inc. Recent Developments/Updates

Table 105. Mesotech International, Inc. Competitive Strengths & Weaknesses

Table 106. R. M. Young Company Basic Information, Manufacturing Base and Competitors

Table 107. R. M. Young Company Major Business

Table 108. R. M. Young Company Field Weather Station Product and Services

Table 109. R. M. Young Company Field Weather Station Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 110. R. M. Young Company Recent Developments/Updates

Table 111. R. M. Young Company Competitive Strengths & Weaknesses

Table 112. OTT HydroMet GmbH Basic Information, Manufacturing Base and Competitors

Table 113. OTT HydroMet GmbH Major Business

Table 114. OTT HydroMet GmbH Field Weather Station Product and Services

Table 115. OTT HydroMet GmbH Field Weather Station Production (K Units), Price

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

Table 116. OTT HydroMet GmbH Recent Developments/Updates

Table 117. OTT HydroMet GmbH Competitive Strengths & Weaknesses

Table 118. Gill Instruments Limited Basic Information, Manufacturing Base and Competitors

Table 119. Gill Instruments Limited Major Business

Table 120. Gill Instruments Limited Field Weather Station Product and Services

Table 121. Gill Instruments Limited Field Weather Station Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 122. Gill Instruments Limited Recent Developments/Updates

Table 123. Gill Instruments Limited Competitive Strengths & Weaknesses

Table 124. Met One Instruments, Inc. Basic Information, Manufacturing Base and Competitors

Table 125. Met One Instruments, Inc. Major Business

Table 126. Met One Instruments, Inc. Field Weather Station Product and Services

Table 127. Met One Instruments, Inc. Field Weather Station Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 128. Met One Instruments, Inc. Recent Developments/Updates

Table 129. Met One Instruments, Inc. Competitive Strengths & Weaknesses

Table 130. Sutron Corporation Basic Information, Manufacturing Base and Competitors

Table 131. Sutron Corporation Major Business

Table 132. Sutron Corporation Field Weather Station Product and Services

Table 133. Sutron Corporation Field Weather Station Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 134. Sutron Corporation Recent Developments/Updates

Table 135. Sutron Corporation Competitive Strengths & Weaknesses

Table 136. Pessl Instruments GmbH Basic Information, Manufacturing Base and Competitors

Table 137. Pessl Instruments GmbH Major Business

Table 138. Pessl Instruments GmbH Field Weather Station Product and Services

Table 139. Pessl Instruments GmbH Field Weather Station Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 140. Pessl Instruments GmbH Recent Developments/Updates

Table 141. Pessl Instruments GmbH Competitive Strengths & Weaknesses

Table 142. Davis Instruments Basic Information, Manufacturing Base and Competitors

Table 143. Davis Instruments Major Business

Table 144. Davis Instruments Field Weather Station Product and Services

Table 145. Davis Instruments Field Weather Station Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 146. Davis Instruments Recent Developments/Updates

Table 147. Davis Instruments Competitive Strengths & Weaknesses

Table 148. Yantai Sensor Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 149. Yantai Sensor Co., Ltd. Major Business

Table 150. Yantai Sensor Co., Ltd. Field Weather Station Product and Services

Table 151. Yantai Sensor Co., Ltd. Field Weather Station Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 152. Yantai Sensor Co., Ltd. Recent Developments/Updates

Table 153. Yantai Sensor Co., Ltd. Competitive Strengths & Weaknesses

Table 154. Chongqing Tangtian Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 155. Chongqing Tangtian Technology Co., Ltd. Major Business

Table 156. Chongqing Tangtian Technology Co., Ltd. Field Weather Station Product and Services

Table 157. Chongqing Tangtian Technology Co., Ltd. Field Weather Station Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 158. Chongqing Tangtian Technology Co., Ltd. Recent Developments/Updates

Table 159. Chongqing Tangtian Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 160. Shandong Renke Control Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 161. Shandong Renke Control Technology Co., Ltd. Major Business

Table 162. Shandong Renke Control Technology Co., Ltd. Field Weather Station Product and Services

Table 163. Shandong Renke Control Technology Co., Ltd. Field Weather Station Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 164. Shandong Renke Control Technology Co., Ltd. Recent Developments/Updates

Table 165. Shandong Renke Control Technology Co., Ltd. Competitive Strengths &

Weaknesses

Table 166. Xiamen Chenmai Wisdom Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 167. Xiamen Chenmai Wisdom Technology Co., Ltd. Major Business

Table 168. Xiamen Chenmai Wisdom Technology Co., Ltd. Field Weather Station Product and Services

Table 169. Xiamen Chenmai Wisdom Technology Co., Ltd. Field Weather Station Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 170. Xiamen Chenmai Wisdom Technology Co., Ltd. Recent Developments/Updates

Table 171. Xiamen Chenmai Wisdom Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 172. Shenzhen Yifan Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 173. Shenzhen Yifan Technology Co., Ltd. Major Business

Table 174. Shenzhen Yifan Technology Co., Ltd. Field Weather Station Product and Services

Table 175. Shenzhen Yifan Technology Co., Ltd. Field Weather Station Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 176. Shenzhen Yifan Technology Co., Ltd. Recent Developments/Updates

Table 177. Shenzhen Yifan Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 178. Global Key Players of Field Weather Station Upstream (Raw Materials)

Table 179. Global Field Weather Station Typical Customers

Table 180. Field Weather Station Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Field Weather Station Picture

Figure 2. World Field Weather Station Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Field Weather Station Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Field Weather Station Production (2021-2032) & (K Units)

Figure 5. World Field Weather Station Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Field Weather Station Production Value Market Share by Region (2021-2032)

Figure 7. World Field Weather Station Production Market Share by Region (2021-2032)

Figure 8. North America Field Weather Station Production (2021-2032) & (K Units)

Figure 9. Europe Field Weather Station Production (2021-2032) & (K Units)

Figure 10. China Field Weather Station Production (2021-2032) & (K Units)

Figure 11. Japan Field Weather Station Production (2021-2032) & (K Units)

Figure 12. Field Weather Station Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Field Weather Station Consumption (2021-2032) & (K Units)

Figure 15. World Field Weather Station Consumption Market Share by Region (2021-2032)

Figure 16. United States Field Weather Station Consumption (2021-2032) & (K Units)

Figure 17. China Field Weather Station Consumption (2021-2032) & (K Units)

Figure 18. Europe Field Weather Station Consumption (2021-2032) & (K Units)

Figure 19. Japan Field Weather Station Consumption (2021-2032) & (K Units)

Figure 20. South Korea Field Weather Station Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Field Weather Station Consumption (2021-2032) & (K Units)

Figure 22. India Field Weather Station Consumption (2021-2032) & (K Units)

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

Figure 24. Global Four-firm Concentration Ratios (CR4) for Field Weather Station Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Field Weather Station Markets in 2025

Figure 26. United States VS China: Field Weather Station Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Field Weather Station Production Market Share

Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Field Weather Station Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Field Weather Station Production Market Share 2025

Figure 30. China Based Manufacturers Field Weather Station Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Field Weather Station Production Market Share 2025

Figure 32. World Field Weather Station Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Field Weather Station Production Value Market Share by Type in 2025

Figure 34. Electric

Figure 35. Solar Energy

Figure 36. Others

Figure 37. World Field Weather Station Production Market Share by Type (2021-2032)

Figure 38. World Field Weather Station Production Value Market Share by Type (2021-2032)

Figure 39. World Field Weather Station Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World Field Weather Station Production Value by Manufacturing Process, (USD Million), 2021 & 2025 & 2032

Figure 41. World Field Weather Station Production Value Market Share by Manufacturing Process in 2025

Figure 42. Modular Assembly

Figure 43. Integrated Cast

Figure 44. 3D Printed Components

Figure 45. Welded Frame

Figure 46. World Field Weather Station Production Market Share by Manufacturing Process (2021-2032)

Figure 47. World Field Weather Station Production Value Market Share by Manufacturing Process (2021-2032)

Figure 48. World Field Weather Station Average Price by Manufacturing Process (2021-2032) & (US\$/Unit)

Figure 49. World Field Weather Station Production Value by Raw Material, (USD Million), 2021 & 2025 & 2032

Figure 50. World Field Weather Station Production Value Market Share by Raw Material in 2025

Figure 51. Aluminum Alloy

Figure 52. Stainless Steel

Figure 53. Polycarbonate

Figure 54. Composite Material

Figure 55. World Field Weather Station Production Market Share by Raw Material (2021-2032)

Figure 56. World Field Weather Station Production Value Market Share by Raw Material (2021-2032)

Figure 57. World Field Weather Station Average Price by Raw Material (2021-2032) & (US\$/Unit)

Figure 58. World Field Weather Station Production Value by Physical Structure, (USD Million), 2021 & 2025 & 2032

Figure 59. World Field Weather Station Production Value Market Share by Physical Structure in 2025

Figure 60. Single-Sensor Tower

Figure 61. Multi-Sensor Mast

Figure 62. Enclosed Station Cabinet

Figure 63. Portable Field Unit

Figure 64. World Field Weather Station Production Market Share by Physical Structure (2021-2032)

Figure 65. World Field Weather Station Production Value Market Share by Physical Structure (2021-2032)

Figure 66. World Field Weather Station Average Price by Physical Structure (2021-2032) & (US\$/Unit)

Figure 67. World Field Weather Station Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 68. World Field Weather Station Production Value Market Share by Application in 2025

Figure 69. Control Pests

Figure 70. Climate Monitoring

Figure 71. Soil Temperature Monitoring

Figure 72. Others

Figure 73. World Field Weather Station Production Market Share by Application (2021-2032)

Figure 74. World Field Weather Station Production Value Market Share by Application (2021-2032)

Figure 75. World Field Weather Station Average Price by Application (2021-2032) & (US\$/Unit)

Figure 76. Field Weather Station Industry Chain

Figure 77. Field Weather Station Procurement Model

Figure 78. Field Weather Station Sales Model

Figure 79. Field Weather Station Sales Channels, Direct Sales, and Distribution

Figure 80. Methodology

Figure 81. Research Process and Data Source

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