

Global Field 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 Field Weather Station market size was valued at US\$ 896 million in 2025 and is forecast to a readjusted size of US\$ 1433 million by 2032 with a CAGR of 6.9% during review period.

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 is a detailed and comprehensive analysis for global Field Weather Station market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. 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 Field Weather Station market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

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

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

Global Field Weather Station market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 Field 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 Field 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 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.

Market Segmentation

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

Market segment by Type

Electric

Solar Energy

Others

Market segment by Manufacturing Process

Modular Assembly

Integrated Cast

3D Printed Components

Welded Frame

Market segment by Raw Material

Aluminum Alloy

Stainless Steel

Polycarbonate

Composite Material

Market segment by Physical Structure

Single-Sensor Tower

Multi-Sensor Mast

Enclosed Station Cabinet

Portable Field Unit

Market segment by Application

Control Pests

Climate Monitoring

Soil Temperature Monitoring

Others

Major players covered

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.

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 Field Weather Station product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Field 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 Application, with sales market share and growth rate by Type, by Application, 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 Field Weather Station market forecast, by regions, by Type, and by Application, 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 Field Weather Station.

Chapter 14 and 15, to describe Field 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 Field Weather Station Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Electric

1.3.3 Solar Energy

1.3.4 Others

1.4 Market Analysis by Manufacturing Process

1.4.1 Overview: Global Field Weather Station Consumption Value by Manufacturing Process: 2021 Versus 2025 Versus 2032

1.4.2 Modular Assembly

1.4.3 Integrated Cast

1.4.4 3D Printed Components

1.4.5 Welded Frame

1.5 Market Analysis by Raw Material

1.5.1 Overview: Global Field Weather Station Consumption Value by Raw Material: 2021 Versus 2025 Versus 2032

1.5.2 Aluminum Alloy

1.5.3 Stainless Steel

1.5.4 Polycarbonate

1.5.5 Composite Material

1.6 Market Analysis by Physical Structure

1.6.1 Overview: Global Field Weather Station Consumption Value by Physical Structure: 2021 Versus 2025 Versus 2032

1.6.2 Single-Sensor Tower

1.6.3 Multi-Sensor Mast

1.6.4 Enclosed Station Cabinet

1.6.5 Portable Field Unit

1.7 Market Analysis by Application

1.7.1 Overview: Global Field Weather Station Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.7.2 Control Pests

1.7.3 Climate Monitoring

1.7.4 Soil Temperature Monitoring

1.7.5 Others

1.8 Global Field Weather Station Market Size & Forecast

1.8.1 Global Field Weather Station Consumption Value (2021 & 2025 & 2032)

1.8.2 Global Field Weather Station Sales Quantity (2021-2032)

1.8.3 Global Field Weather Station Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Campbell Scientific

2.1.1 Campbell Scientific Details

2.1.2 Campbell Scientific Major Business

2.1.3 Campbell Scientific Field Weather Station Product and Services

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

2.1.5 Campbell Scientific Recent Developments/Updates

2.2 Vaisala Oyj

2.2.1 Vaisala Oyj Details

2.2.2 Vaisala Oyj Major Business

2.2.3 Vaisala Oyj Field Weather Station Product and Services

2.2.4 Vaisala Oyj Field Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Vaisala Oyj Recent Developments/Updates

2.3 Optical Scientific, Inc.

2.3.1 Optical Scientific, Inc. Details

2.3.2 Optical Scientific, Inc. Major Business

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

2.3.4 Optical Scientific, Inc. Field Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Optical Scientific, Inc. Recent Developments/Updates

2.4 Mesotech International, Inc.

2.4.1 Mesotech International, Inc. Details

2.4.2 Mesotech International, Inc. Major Business

2.4.3 Mesotech International, Inc. Field Weather Station Product and Services

2.4.4 Mesotech International, Inc. Field Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Mesotech International, Inc. Recent Developments/Updates

2.5 R. M. Young Company

2.5.1 R. M. Young Company Details

2.5.2 R. M. Young Company Major Business

- 2.5.3 R. M. Young Company Field Weather Station Product and Services
- 2.5.4 R. M. Young Company Field Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.5.5 R. M. Young Company Recent Developments/Updates
- 2.6 OTT HydroMet GmbH
 - 2.6.1 OTT HydroMet GmbH Details
 - 2.6.2 OTT HydroMet GmbH Major Business
 - 2.6.3 OTT HydroMet GmbH Field Weather Station Product and Services
 - 2.6.4 OTT HydroMet GmbH Field Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 OTT HydroMet GmbH Recent Developments/Updates
- 2.7 Gill Instruments Limited
 - 2.7.1 Gill Instruments Limited Details
 - 2.7.2 Gill Instruments Limited Major Business
 - 2.7.3 Gill Instruments Limited Field Weather Station Product and Services
 - 2.7.4 Gill Instruments Limited Field Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Gill Instruments Limited Recent Developments/Updates
- 2.8 Met One Instruments, Inc.
 - 2.8.1 Met One Instruments, Inc. Details
 - 2.8.2 Met One Instruments, Inc. Major Business
 - 2.8.3 Met One Instruments, Inc. Field Weather Station Product and Services
 - 2.8.4 Met One Instruments, Inc. Field Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Met One Instruments, Inc. Recent Developments/Updates
- 2.9 Sutron Corporation
 - 2.9.1 Sutron Corporation Details
 - 2.9.2 Sutron Corporation Major Business
 - 2.9.3 Sutron Corporation Field Weather Station Product and Services
 - 2.9.4 Sutron Corporation Field Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Sutron Corporation Recent Developments/Updates
- 2.10 Pessl Instruments GmbH
 - 2.10.1 Pessl Instruments GmbH Details
 - 2.10.2 Pessl Instruments GmbH Major Business
 - 2.10.3 Pessl Instruments GmbH Field Weather Station Product and Services
 - 2.10.4 Pessl Instruments GmbH Field Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 Pessl Instruments GmbH Recent Developments/Updates

2.11 Davis Instruments

2.11.1 Davis Instruments Details

2.11.2 Davis Instruments Major Business

2.11.3 Davis Instruments Field Weather Station Product and Services

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

2.11.5 Davis Instruments Recent Developments/Updates

2.12 Yantai Sensor Co., Ltd.

2.12.1 Yantai Sensor Co., Ltd. Details

2.12.2 Yantai Sensor Co., Ltd. Major Business

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

2.12.4 Yantai Sensor Co., Ltd. Field Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Yantai Sensor Co., Ltd. Recent Developments/Updates

2.13 Chongqing Tangtian Technology Co., Ltd.

2.13.1 Chongqing Tangtian Technology Co., Ltd. Details

2.13.2 Chongqing Tangtian Technology Co., Ltd. Major Business

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

2.13.4 Chongqing Tangtian Technology Co., Ltd. Field Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 Chongqing Tangtian Technology Co., Ltd. Recent Developments/Updates

2.14 Shandong Renke Control Technology Co., Ltd.

2.14.1 Shandong Renke Control Technology Co., Ltd. Details

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

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

2.14.4 Shandong Renke Control Technology Co., Ltd. Field Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

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

2.15 Xiamen Chenmai Wisdom Technology Co., Ltd.

2.15.1 Xiamen Chenmai Wisdom Technology Co., Ltd. Details

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

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

2.15.4 Xiamen Chenmai Wisdom Technology Co., Ltd. Field Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

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

2.16 Shenzhen Yifan Technology Co., Ltd.

- 2.16.1 Shenzhen Yifan Technology Co., Ltd. Details
- 2.16.2 Shenzhen Yifan Technology Co., Ltd. Major Business
- 2.16.3 Shenzhen Yifan Technology Co., Ltd. Field Weather Station Product and Services
- 2.16.4 Shenzhen Yifan Technology Co., Ltd. Field Weather Station Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.16.5 Shenzhen Yifan Technology Co., Ltd. Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: FIELD WEATHER STATION BY MANUFACTURER

- 3.1 Global Field Weather Station Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Field Weather Station Revenue by Manufacturer (2021-2026)
- 3.3 Global Field Weather Station Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Field Weather Station by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Field Weather Station Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Field Weather Station Manufacturer Market Share in 2025
- 3.5 Field Weather Station Market: Overall Company Footprint Analysis
 - 3.5.1 Field Weather Station Market: Region Footprint
 - 3.5.2 Field Weather Station Market: Company Product Type Footprint
 - 3.5.3 Field 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 Field Weather Station Market Size by Region
 - 4.1.1 Global Field Weather Station Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Field Weather Station Consumption Value by Region (2021-2032)
 - 4.1.3 Global Field Weather Station Average Price by Region (2021-2032)
- 4.2 North America Field Weather Station Consumption Value (2021-2032)
- 4.3 Europe Field Weather Station Consumption Value (2021-2032)
- 4.4 Asia-Pacific Field Weather Station Consumption Value (2021-2032)
- 4.5 South America Field Weather Station Consumption Value (2021-2032)
- 4.6 Middle East & Africa Field Weather Station Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Field Weather Station Sales Quantity by Type (2021-2032)
- 5.2 Global Field Weather Station Consumption Value by Type (2021-2032)
- 5.3 Global Field Weather Station Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Field Weather Station Sales Quantity by Application (2021-2032)
- 6.2 Global Field Weather Station Consumption Value by Application (2021-2032)
- 6.3 Global Field Weather Station Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America Field Weather Station Sales Quantity by Type (2021-2032)
- 7.2 North America Field Weather Station Sales Quantity by Application (2021-2032)
- 7.3 North America Field Weather Station Market Size by Country
 - 7.3.1 North America Field Weather Station Sales Quantity by Country (2021-2032)
 - 7.3.2 North America Field 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 Field Weather Station Sales Quantity by Type (2021-2032)
- 8.2 Europe Field Weather Station Sales Quantity by Application (2021-2032)
- 8.3 Europe Field Weather Station Market Size by Country
 - 8.3.1 Europe Field Weather Station Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe Field 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 Field Weather Station Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Field Weather Station Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Field Weather Station Market Size by Region

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

9.3.2 Asia-Pacific Field 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 Field Weather Station Sales Quantity by Type (2021-2032)

10.2 South America Field Weather Station Sales Quantity by Application (2021-2032)

10.3 South America Field Weather Station Market Size by Country

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

10.3.2 South America Field 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 Field Weather Station Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Field Weather Station Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Field Weather Station Market Size by Country

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

11.3.2 Middle East & Africa Field 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 Field Weather Station Market Drivers
- 12.2 Field Weather Station Market Restraints
- 12.3 Field 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 Field Weather Station and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Field Weather Station
- 13.3 Field 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 Field Weather Station Typical Distributors
- 14.3 Field 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 Field Weather Station Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Field Weather Station Consumption Value by Manufacturing Process, (USD Million), 2021 & 2025 & 2032

Table 3. Global Field Weather Station Consumption Value by Raw Material, (USD Million), 2021 & 2025 & 2032

Table 4. Global Field Weather Station Consumption Value by Physical Structure, (USD Million), 2021 & 2025 & 2032

Table 5. Global Field Weather Station Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 6. Campbell Scientific Basic Information, Manufacturing Base and Competitors

Table 7. Campbell Scientific Major Business

Table 8. Campbell Scientific Field Weather Station Product and Services

Table 9. Campbell Scientific Field Weather Station Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 10. Campbell Scientific Recent Developments/Updates

Table 11. Vaisala Oyj Basic Information, Manufacturing Base and Competitors

Table 12. Vaisala Oyj Major Business

Table 13. Vaisala Oyj Field Weather Station Product and Services

Table 14. Vaisala Oyj Field Weather Station Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 15. Vaisala Oyj Recent Developments/Updates

Table 16. Optical Scientific, Inc. Basic Information, Manufacturing Base and Competitors

Table 17. Optical Scientific, Inc. Major Business

Table 18. Optical Scientific, Inc. Field Weather Station Product and Services

Table 19. Optical Scientific, Inc. Field Weather Station Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 20. Optical Scientific, Inc. Recent Developments/Updates

Table 21. Mesotech International, Inc. Basic Information, Manufacturing Base and Competitors

Table 22. Mesotech International, Inc. Major Business

Table 23. Mesotech International, Inc. Field Weather Station Product and Services

Table 24. Mesotech International, Inc. Field Weather Station Sales Quantity (K Units),

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

Table 25. Mesotech International, Inc. Recent Developments/Updates

Table 26. R. M. Young Company Basic Information, Manufacturing Base and Competitors

Table 27. R. M. Young Company Major Business

Table 28. R. M. Young Company Field Weather Station Product and Services

Table 29. R. M. Young Company Field Weather Station Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 30. R. M. Young Company Recent Developments/Updates

Table 31. OTT HydroMet GmbH Basic Information, Manufacturing Base and Competitors

Table 32. OTT HydroMet GmbH Major Business

Table 33. OTT HydroMet GmbH Field Weather Station Product and Services

Table 34. OTT HydroMet GmbH Field Weather Station Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 35. OTT HydroMet GmbH Recent Developments/Updates

Table 36. Gill Instruments Limited Basic Information, Manufacturing Base and Competitors

Table 37. Gill Instruments Limited Major Business

Table 38. Gill Instruments Limited Field Weather Station Product and Services

Table 39. Gill Instruments Limited Field Weather Station Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 40. Gill Instruments Limited Recent Developments/Updates

Table 41. Met One Instruments, Inc. Basic Information, Manufacturing Base and Competitors

Table 42. Met One Instruments, Inc. Major Business

Table 43. Met One Instruments, Inc. Field Weather Station Product and Services

Table 44. Met One Instruments, Inc. Field Weather Station Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 45. Met One Instruments, Inc. Recent Developments/Updates

Table 46. Sutron Corporation Basic Information, Manufacturing Base and Competitors

Table 47. Sutron Corporation Major Business

Table 48. Sutron Corporation Field Weather Station Product and Services

Table 49. Sutron Corporation Field Weather Station Sales Quantity (K Units), Average

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

Table 50. Sutron Corporation Recent Developments/Updates

Table 51. Pessl Instruments GmbH Basic Information, Manufacturing Base and Competitors

Table 52. Pessl Instruments GmbH Major Business

Table 53. Pessl Instruments GmbH Field Weather Station Product and Services

Table 54. Pessl Instruments GmbH Field Weather Station Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 55. Pessl Instruments GmbH Recent Developments/Updates

Table 56. Davis Instruments Basic Information, Manufacturing Base and Competitors

Table 57. Davis Instruments Major Business

Table 58. Davis Instruments Field Weather Station Product and Services

Table 59. Davis Instruments Field Weather Station Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 60. Davis Instruments Recent Developments/Updates

Table 61. Yantai Sensor Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 62. Yantai Sensor Co., Ltd. Major Business

Table 63. Yantai Sensor Co., Ltd. Field Weather Station Product and Services

Table 64. Yantai Sensor Co., Ltd. Field Weather Station Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 65. Yantai Sensor Co., Ltd. Recent Developments/Updates

Table 66. Chongqing Tangtian Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 67. Chongqing Tangtian Technology Co., Ltd. Major Business

Table 68. Chongqing Tangtian Technology Co., Ltd. Field Weather Station Product and Services

Table 69. Chongqing Tangtian Technology Co., Ltd. Field Weather Station Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 70. Chongqing Tangtian Technology Co., Ltd. Recent Developments/Updates

Table 71. Shandong Renke Control Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 72. Shandong Renke Control Technology Co., Ltd. Major Business

Table 73. Shandong Renke Control Technology Co., Ltd. Field Weather Station Product and Services

Table 74. Shandong Renke Control Technology Co., Ltd. Field Weather Station Sales

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

Table 75. Shandong Renke Control Technology Co., Ltd. Recent Developments/Updates

Table 76. Xiamen Chenmai Wisdom Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 77. Xiamen Chenmai Wisdom Technology Co., Ltd. Major Business

Table 78. Xiamen Chenmai Wisdom Technology Co., Ltd. Field Weather Station Product and Services

Table 79. Xiamen Chenmai Wisdom Technology Co., Ltd. Field Weather Station Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 80. Xiamen Chenmai Wisdom Technology Co., Ltd. Recent Developments/Updates

Table 81. Shenzhen Yifan Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 82. Shenzhen Yifan Technology Co., Ltd. Major Business

Table 83. Shenzhen Yifan Technology Co., Ltd. Field Weather Station Product and Services

Table 84. Shenzhen Yifan Technology Co., Ltd. Field Weather Station Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Shenzhen Yifan Technology Co., Ltd. Recent Developments/Updates

Table 86. Global Field Weather Station Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 87. Global Field Weather Station Revenue by Manufacturer (2021-2026) & (USD Million)

Table 88. Global Field Weather Station Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 89. Market Position of Manufacturers in Field Weather Station, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 90. Head Office and Field Weather Station Production Site of Key Manufacturer

Table 91. Field Weather Station Market: Company Product Type Footprint

Table 92. Field Weather Station Market: Company Product Application Footprint

Table 93. Field Weather Station New Market Entrants and Barriers to Market Entry

Table 94. Field Weather Station Mergers, Acquisition, Agreements, and Collaborations

Table 95. Global Field Weather Station Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 96. Global Field Weather Station Sales Quantity by Region (2021-2026) & (K

Units)

Table 97. Global Field Weather Station Sales Quantity by Region (2027-2032) & (K Units)

Table 98. Global Field Weather Station Consumption Value by Region (2021-2026) & (USD Million)

Table 99. Global Field Weather Station Consumption Value by Region (2027-2032) & (USD Million)

Table 100. Global Field Weather Station Average Price by Region (2021-2026) & (US\$/Unit)

Table 101. Global Field Weather Station Average Price by Region (2027-2032) & (US\$/Unit)

Table 102. Global Field Weather Station Sales Quantity by Type (2021-2026) & (K Units)

Table 103. Global Field Weather Station Sales Quantity by Type (2027-2032) & (K Units)

Table 104. Global Field Weather Station Consumption Value by Type (2021-2026) & (USD Million)

Table 105. Global Field Weather Station Consumption Value by Type (2027-2032) & (USD Million)

Table 106. Global Field Weather Station Average Price by Type (2021-2026) & (US\$/Unit)

Table 107. Global Field Weather Station Average Price by Type (2027-2032) & (US\$/Unit)

Table 108. Global Field Weather Station Sales Quantity by Application (2021-2026) & (K Units)

Table 109. Global Field Weather Station Sales Quantity by Application (2027-2032) & (K Units)

Table 110. Global Field Weather Station Consumption Value by Application (2021-2026) & (USD Million)

Table 111. Global Field Weather Station Consumption Value by Application (2027-2032) & (USD Million)

Table 112. Global Field Weather Station Average Price by Application (2021-2026) & (US\$/Unit)

Table 113. Global Field Weather Station Average Price by Application (2027-2032) & (US\$/Unit)

Table 114. North America Field Weather Station Sales Quantity by Type (2021-2026) & (K Units)

Table 115. North America Field Weather Station Sales Quantity by Type (2027-2032) & (K Units)

Table 116. North America Field Weather Station Sales Quantity by Application (2021-2026) & (K Units)

Table 117. North America Field Weather Station Sales Quantity by Application (2027-2032) & (K Units)

Table 118. North America Field Weather Station Sales Quantity by Country (2021-2026) & (K Units)

Table 119. North America Field Weather Station Sales Quantity by Country (2027-2032) & (K Units)

Table 120. North America Field Weather Station Consumption Value by Country (2021-2026) & (USD Million)

Table 121. North America Field Weather Station Consumption Value by Country (2027-2032) & (USD Million)

Table 122. Europe Field Weather Station Sales Quantity by Type (2021-2026) & (K Units)

Table 123. Europe Field Weather Station Sales Quantity by Type (2027-2032) & (K Units)

Table 124. Europe Field Weather Station Sales Quantity by Application (2021-2026) & (K Units)

Table 125. Europe Field Weather Station Sales Quantity by Application (2027-2032) & (K Units)

Table 126. Europe Field Weather Station Sales Quantity by Country (2021-2026) & (K Units)

Table 127. Europe Field Weather Station Sales Quantity by Country (2027-2032) & (K Units)

Table 128. Europe Field Weather Station Consumption Value by Country (2021-2026) & (USD Million)

Table 129. Europe Field Weather Station Consumption Value by Country (2027-2032) & (USD Million)

Table 130. Asia-Pacific Field Weather Station Sales Quantity by Type (2021-2026) & (K Units)

Table 131. Asia-Pacific Field Weather Station Sales Quantity by Type (2027-2032) & (K Units)

Table 132. Asia-Pacific Field Weather Station Sales Quantity by Application (2021-2026) & (K Units)

Table 133. Asia-Pacific Field Weather Station Sales Quantity by Application (2027-2032) & (K Units)

Table 134. Asia-Pacific Field Weather Station Sales Quantity by Region (2021-2026) & (K Units)

Table 135. Asia-Pacific Field Weather Station Sales Quantity by Region (2027-2032) &

(K Units)

Table 136. Asia-Pacific Field Weather Station Consumption Value by Region
(2021-2026) & (USD Million)

Table 137. Asia-Pacific Field Weather Station Consumption Value by Region
(2027-2032) & (USD Million)

Table 138. South America Field Weather Station Sales Quantity by Type (2021-2026) &
(K Units)

Table 139. South America Field Weather Station Sales Quantity by Type (2027-2032) &
(K Units)

Table 140. South America Field Weather Station Sales Quantity by Application
(2021-2026) & (K Units)

Table 141. South America Field Weather Station Sales Quantity by Application
(2027-2032) & (K Units)

Table 142. South America Field Weather Station Sales Quantity by Country
(2021-2026) & (K Units)

Table 143. South America Field Weather Station Sales Quantity by Country
(2027-2032) & (K Units)

Table 144. South America Field Weather Station Consumption Value by Country
(2021-2026) & (USD Million)

Table 145. South America Field Weather Station Consumption Value by Country
(2027-2032) & (USD Million)

Table 146. Middle East & Africa Field Weather Station Sales Quantity by Type
(2021-2026) & (K Units)

Table 147. Middle East & Africa Field Weather Station Sales Quantity by Type
(2027-2032) & (K Units)

Table 148. Middle East & Africa Field Weather Station Sales Quantity by Application
(2021-2026) & (K Units)

Table 149. Middle East & Africa Field Weather Station Sales Quantity by Application
(2027-2032) & (K Units)

Table 150. Middle East & Africa Field Weather Station Sales Quantity by Country
(2021-2026) & (K Units)

Table 151. Middle East & Africa Field Weather Station Sales Quantity by Country
(2027-2032) & (K Units)

Table 152. Middle East & Africa Field Weather Station Consumption Value by Country
(2021-2026) & (USD Million)

Table 153. Middle East & Africa Field Weather Station Consumption Value by Country
(2027-2032) & (USD Million)

Table 154. Field Weather Station Raw Material

Table 155. Key Manufacturers of Field Weather Station Raw Materials

Table 156. Field Weather Station Typical Distributors

Table 157. Field Weather Station Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Field Weather Station Picture

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

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

Figure 4. Electric Examples

Figure 5. Solar Energy Examples

Figure 6. Others Examples

Figure 7. Global Field Weather Station Revenue by Manufacturing Process, (USD Million), 2021 & 2025 & 2032

Figure 8. Global Field Weather Station Revenue Market Share by Manufacturing Process in 2025

Figure 9. Modular Assembly Examples

Figure 10. Integrated Cast Examples

Figure 11. 3D Printed Components Examples

Figure 12. Welded Frame Examples

Figure 13. Global Field Weather Station Revenue by Raw Material, (USD Million), 2021 & 2025 & 2032

Figure 14. Global Field Weather Station Revenue Market Share by Raw Material in 2025

Figure 15. Aluminum Alloy Examples

Figure 16. Stainless Steel Examples

Figure 17. Polycarbonate Examples

Figure 18. Composite Material Examples

Figure 19. Global Field Weather Station Revenue by Physical Structure, (USD Million), 2021 & 2025 & 2032

Figure 20. Global Field Weather Station Revenue Market Share by Physical Structure in 2025

Figure 21. Single-Sensor Tower Examples

Figure 22. Multi-Sensor Mast Examples

Figure 23. Enclosed Station Cabinet Examples

Figure 24. Portable Field Unit Examples

Figure 25. Global Field Weather Station Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 26. Global Field Weather Station Revenue Market Share by Application in 2025

Figure 27. Control Pests Examples

Figure 28. Climate Monitoring Examples

Figure 29. Soil Temperature Monitoring Examples

Figure 30. Others Examples

Figure 31. Global Field Weather Station Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 32. Global Field Weather Station Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 33. Global Field Weather Station Sales Quantity (2021-2032) & (K Units)

Figure 34. Global Field Weather Station Price (2021-2032) & (US\$/Unit)

Figure 35. Global Field Weather Station Sales Quantity Market Share by Manufacturer in 2025

Figure 36. Global Field Weather Station Revenue Market Share by Manufacturer in 2025

Figure 37. Producer Shipments of Field Weather Station by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 38. Top 3 Field Weather Station Manufacturer (Revenue) Market Share in 2025

Figure 39. Top 6 Field Weather Station Manufacturer (Revenue) Market Share in 2025

Figure 40. Global Field Weather Station Sales Quantity Market Share by Region (2021-2032)

Figure 41. Global Field Weather Station Consumption Value Market Share by Region (2021-2032)

Figure 42. North America Field Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 43. Europe Field Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 44. Asia-Pacific Field Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 45. South America Field Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 46. Middle East & Africa Field Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 47. Global Field Weather Station Sales Quantity Market Share by Type (2021-2032)

Figure 48. Global Field Weather Station Consumption Value Market Share by Type (2021-2032)

Figure 49. Global Field Weather Station Average Price by Type (2021-2032) & (US\$/Unit)

Figure 50. Global Field Weather Station Sales Quantity Market Share by Application (2021-2032)

Figure 51. Global Field Weather Station Revenue Market Share by Application (2021-2032)

Figure 52. Global Field Weather Station Average Price by Application (2021-2032) & (US\$/Unit)

Figure 53. North America Field Weather Station Sales Quantity Market Share by Type (2021-2032)

Figure 54. North America Field Weather Station Sales Quantity Market Share by Application (2021-2032)

Figure 55. North America Field Weather Station Sales Quantity Market Share by Country (2021-2032)

Figure 56. North America Field Weather Station Consumption Value Market Share by Country (2021-2032)

Figure 57. United States Field Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 58. Canada Field Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 59. Mexico Field Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 60. Europe Field Weather Station Sales Quantity Market Share by Type (2021-2032)

Figure 61. Europe Field Weather Station Sales Quantity Market Share by Application (2021-2032)

Figure 62. Europe Field Weather Station Sales Quantity Market Share by Country (2021-2032)

Figure 63. Europe Field Weather Station Consumption Value Market Share by Country (2021-2032)

Figure 64. Germany Field Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 65. France Field Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 66. United Kingdom Field Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 67. Russia Field Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 68. Italy Field Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 69. Asia-Pacific Field Weather Station Sales Quantity Market Share by Type (2021-2032)

Figure 70. Asia-Pacific Field Weather Station Sales Quantity Market Share by Application (2021-2032)

Figure 71. Asia-Pacific Field Weather Station Sales Quantity Market Share by Region (2021-2032)

Figure 72. Asia-Pacific Field Weather Station Consumption Value Market Share by Region (2021-2032)

Figure 73. China Field Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 74. Japan Field Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 75. South Korea Field Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 76. India Field Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 77. Southeast Asia Field Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 78. Australia Field Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 79. South America Field Weather Station Sales Quantity Market Share by Type (2021-2032)

Figure 80. South America Field Weather Station Sales Quantity Market Share by Application (2021-2032)

Figure 81. South America Field Weather Station Sales Quantity Market Share by Country (2021-2032)

Figure 82. South America Field Weather Station Consumption Value Market Share by Country (2021-2032)

Figure 83. Brazil Field Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 84. Argentina Field Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 85. Middle East & Africa Field Weather Station Sales Quantity Market Share by Type (2021-2032)

Figure 86. Middle East & Africa Field Weather Station Sales Quantity Market Share by Application (2021-2032)

Figure 87. Middle East & Africa Field Weather Station Sales Quantity Market Share by Country (2021-2032)

Figure 88. Middle East & Africa Field Weather Station Consumption Value Market Share by Country (2021-2032)

Figure 89. Turkey Field Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 90. Egypt Field Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 91. Saudi Arabia Field Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 92. South Africa Field Weather Station Consumption Value (2021-2032) & (USD Million)

Figure 93. Field Weather Station Market Drivers

Figure 94. Field Weather Station Market Restraints

Figure 95. Field Weather Station Market Trends

Figure 96. Porters Five Forces Analysis

Figure 97. Manufacturing Cost Structure Analysis of Field Weather Station in 2025

Figure 98. Manufacturing Process Analysis of Field Weather Station

Figure 99. Field Weather Station Industrial Chain

Figure 100. Sales Channel: Direct to End-User vs Distributors

Figure 101. Direct Channel Pros & Cons

Figure 102. Indirect Channel Pros & Cons

Figure 103. Methodology

Figure 104. Research Process and Data Source

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