

Global Smart Weather Data Sensor Market Research Report 2026(Status and Outlook)

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Abstracts

A smart weather data sensor is a sensor device used to measure single or multiple meteorological parameters (such as temperature, humidity, wind speed, wind direction, atmospheric pressure, rainfall, etc.). Its core function is to convert meteorological information in the physical environment into standard electrical signals or digital signals and transmit them to the data processing system. It is highly professional and suitable for scenarios such as industrial monitoring and agricultural meteorological services.

The global Smart Weather Data Sensor market size was estimated at USD 668.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 4.40% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Smart Weather Data Sensor market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Smart Weather Data Sensor market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding

of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Smart Weather Data Sensor market.

Global Smart Weather Data Sensor Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Met One
ENVIRA
Vaisala
RM Young
Onetemp
Campbell Scientific
Lufft
Meter Group
Aeron Systems
Siemens
Ahlborn
PULSONIC
BARANI DESIGN Technologies
Davis Instruments
Gill Instruments
OTT HydroMet

Market Segmentation (by Type)

Portable Type
Fixed Type

Market Segmentation (by Application)

Agriculture
Industrial
Military
Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Smart Weather Data Sensor Market
Overview of the regional outlook of the Smart Weather Data Sensor Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Smart Weather Data Sensor Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Smart Weather Data Sensor, their

output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Smart Weather Data Sensor

1.2 Key Market Segments

1.2.1 Smart Weather Data Sensor Segment by Type

1.2.2 Smart Weather Data Sensor Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 SMART WEATHER DATA SENSOR MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Smart Weather Data Sensor Market Size (M USD) Estimates and Forecasts (2020-2035)

2.1.2 Global Smart Weather Data Sensor Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 SMART WEATHER DATA SENSOR MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Smart Weather Data Sensor Product Life Cycle

3.3 Global Smart Weather Data Sensor Sales by Manufacturers (2020-2025)

3.4 Global Smart Weather Data Sensor Revenue Market Share by Manufacturers (2020-2025)

3.5 Smart Weather Data Sensor Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Smart Weather Data Sensor Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Smart Weather Data Sensor Market Competitive Situation and Trends

3.8.1 Smart Weather Data Sensor Market Concentration Rate

3.8.2 Global 5 and 10 Largest Smart Weather Data Sensor Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 SMART WEATHER DATA SENSOR INDUSTRY CHAIN ANALYSIS

4.1 Smart Weather Data Sensor Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF SMART WEATHER DATA SENSOR MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Smart Weather Data Sensor Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Smart Weather Data Sensor Market

5.7 ESG Ratings of Leading Companies

6 SMART WEATHER DATA SENSOR MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Smart Weather Data Sensor Sales Market Share by Type (2020-2025)

6.3 Global Smart Weather Data Sensor Market Size by Type (2020-2025)

6.4 Global Smart Weather Data Sensor Price by Type (2020-2025)

7 SMART WEATHER DATA SENSOR MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Smart Weather Data Sensor Market Sales by Application (2020-2025)
- 7.3 Global Smart Weather Data Sensor Market Size (M USD) by Application (2020-2025)
- 7.4 Global Smart Weather Data Sensor Sales Growth Rate by Application (2020-2025)

8 SMART WEATHER DATA SENSOR MARKET SALES BY REGION

- 8.1 Global Smart Weather Data Sensor Sales by Region
 - 8.1.1 Global Smart Weather Data Sensor Sales by Region
 - 8.1.2 Global Smart Weather Data Sensor Sales Market Share by Region
- 8.2 Global Smart Weather Data Sensor Market Size by Region
 - 8.2.1 Global Smart Weather Data Sensor Market Size by Region
 - 8.2.2 Global Smart Weather Data Sensor Market Size by Region
- 8.3 North America
 - 8.3.1 North America Smart Weather Data Sensor Sales by Country
 - 8.3.2 North America Smart Weather Data Sensor Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Smart Weather Data Sensor Sales by Country
 - 8.4.2 Europe Smart Weather Data Sensor Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Smart Weather Data Sensor Sales by Region
 - 8.5.2 Asia Pacific Smart Weather Data Sensor Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Smart Weather Data Sensor Sales by Country

- 8.6.2 South America Smart Weather Data Sensor Market Size by Country
- 8.6.3 Brazil Market Overview
- 8.6.4 Argentina Market Overview
- 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Smart Weather Data Sensor Sales by Region
 - 8.7.2 Middle East and Africa Smart Weather Data Sensor Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 SMART WEATHER DATA SENSOR MARKET PRODUCTION BY REGION

- 9.1 Global Production of Smart Weather Data Sensor by Region(2020-2025)
- 9.2 Global Smart Weather Data Sensor Revenue Market Share by Region (2020-2025)
- 9.3 Global Smart Weather Data Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Smart Weather Data Sensor Production
 - 9.4.1 North America Smart Weather Data Sensor Production Growth Rate (2020-2025)
 - 9.4.2 North America Smart Weather Data Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Smart Weather Data Sensor Production
 - 9.5.1 Europe Smart Weather Data Sensor Production Growth Rate (2020-2025)
 - 9.5.2 Europe Smart Weather Data Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Smart Weather Data Sensor Production (2020-2025)
 - 9.6.1 Japan Smart Weather Data Sensor Production Growth Rate (2020-2025)
 - 9.6.2 Japan Smart Weather Data Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Smart Weather Data Sensor Production (2020-2025)
 - 9.7.1 China Smart Weather Data Sensor Production Growth Rate (2020-2025)
 - 9.7.2 China Smart Weather Data Sensor Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

- 10.1 Met One

- 10.1.1 Met One Basic Information
- 10.1.2 Met One Smart Weather Data Sensor Product Overview
- 10.1.3 Met One Smart Weather Data Sensor Product Market Performance
- 10.1.4 Met One Business Overview
- 10.1.5 Met One SWOT Analysis
- 10.1.6 Met One Recent Developments
- 10.2 ENVIRA
 - 10.2.1 ENVIRA Basic Information
 - 10.2.2 ENVIRA Smart Weather Data Sensor Product Overview
 - 10.2.3 ENVIRA Smart Weather Data Sensor Product Market Performance
 - 10.2.4 ENVIRA Business Overview
 - 10.2.5 ENVIRA SWOT Analysis
 - 10.2.6 ENVIRA Recent Developments
- 10.3 Vaisala
 - 10.3.1 Vaisala Basic Information
 - 10.3.2 Vaisala Smart Weather Data Sensor Product Overview
 - 10.3.3 Vaisala Smart Weather Data Sensor Product Market Performance
 - 10.3.4 Vaisala Business Overview
 - 10.3.5 Vaisala SWOT Analysis
 - 10.3.6 Vaisala Recent Developments
- 10.4 RM Young
 - 10.4.1 RM Young Basic Information
 - 10.4.2 RM Young Smart Weather Data Sensor Product Overview
 - 10.4.3 RM Young Smart Weather Data Sensor Product Market Performance
 - 10.4.4 RM Young Business Overview
 - 10.4.5 RM Young Recent Developments
- 10.5 Onetemp
 - 10.5.1 Onetemp Basic Information
 - 10.5.2 Onetemp Smart Weather Data Sensor Product Overview
 - 10.5.3 Onetemp Smart Weather Data Sensor Product Market Performance
 - 10.5.4 Onetemp Business Overview
 - 10.5.5 Onetemp Recent Developments
- 10.6 Campbell Scientific
 - 10.6.1 Campbell Scientific Basic Information
 - 10.6.2 Campbell Scientific Smart Weather Data Sensor Product Overview
 - 10.6.3 Campbell Scientific Smart Weather Data Sensor Product Market Performance
 - 10.6.4 Campbell Scientific Business Overview
 - 10.6.5 Campbell Scientific Recent Developments
- 10.7 Lufft

- 10.7.1 Lufft Basic Information
- 10.7.2 Lufft Smart Weather Data Sensor Product Overview
- 10.7.3 Lufft Smart Weather Data Sensor Product Market Performance
- 10.7.4 Lufft Business Overview
- 10.7.5 Lufft Recent Developments
- 10.8 Meter Group
 - 10.8.1 Meter Group Basic Information
 - 10.8.2 Meter Group Smart Weather Data Sensor Product Overview
 - 10.8.3 Meter Group Smart Weather Data Sensor Product Market Performance
 - 10.8.4 Meter Group Business Overview
 - 10.8.5 Meter Group Recent Developments
- 10.9 Aeron Systems
 - 10.9.1 Aeron Systems Basic Information
 - 10.9.2 Aeron Systems Smart Weather Data Sensor Product Overview
 - 10.9.3 Aeron Systems Smart Weather Data Sensor Product Market Performance
 - 10.9.4 Aeron Systems Business Overview
 - 10.9.5 Aeron Systems Recent Developments
- 10.10 Siemens
 - 10.10.1 Siemens Basic Information
 - 10.10.2 Siemens Smart Weather Data Sensor Product Overview
 - 10.10.3 Siemens Smart Weather Data Sensor Product Market Performance
 - 10.10.4 Siemens Business Overview
 - 10.10.5 Siemens Recent Developments
- 10.11 Ahlborn
 - 10.11.1 Ahlborn Basic Information
 - 10.11.2 Ahlborn Smart Weather Data Sensor Product Overview
 - 10.11.3 Ahlborn Smart Weather Data Sensor Product Market Performance
 - 10.11.4 Ahlborn Business Overview
 - 10.11.5 Ahlborn Recent Developments
- 10.12 PULSONIC
 - 10.12.1 PULSONIC Basic Information
 - 10.12.2 PULSONIC Smart Weather Data Sensor Product Overview
 - 10.12.3 PULSONIC Smart Weather Data Sensor Product Market Performance
 - 10.12.4 PULSONIC Business Overview
 - 10.12.5 PULSONIC Recent Developments
- 10.13 BARANI DESIGN Technologies
 - 10.13.1 BARANI DESIGN Technologies Basic Information
 - 10.13.2 BARANI DESIGN Technologies Smart Weather Data Sensor Product Overview

10.13.3 BARANI DESIGN Technologies Smart Weather Data Sensor Product Market Performance

10.13.4 BARANI DESIGN Technologies Business Overview

10.13.5 BARANI DESIGN Technologies Recent Developments

10.14 Davis Instruments

10.14.1 Davis Instruments Basic Information

10.14.2 Davis Instruments Smart Weather Data Sensor Product Overview

10.14.3 Davis Instruments Smart Weather Data Sensor Product Market Performance

10.14.4 Davis Instruments Business Overview

10.14.5 Davis Instruments Recent Developments

10.15 Gill Instruments

10.15.1 Gill Instruments Basic Information

10.15.2 Gill Instruments Smart Weather Data Sensor Product Overview

10.15.3 Gill Instruments Smart Weather Data Sensor Product Market Performance

10.15.4 Gill Instruments Business Overview

10.15.5 Gill Instruments Recent Developments

10.16 OTT HydroMet

10.16.1 OTT HydroMet Basic Information

10.16.2 OTT HydroMet Smart Weather Data Sensor Product Overview

10.16.3 OTT HydroMet Smart Weather Data Sensor Product Market Performance

10.16.4 OTT HydroMet Business Overview

10.16.5 OTT HydroMet Recent Developments

11 SMART WEATHER DATA SENSOR MARKET FORECAST BY REGION

11.1 Global Smart Weather Data Sensor Market Size Forecast

11.2 Global Smart Weather Data Sensor Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Smart Weather Data Sensor Market Size Forecast by Country

11.2.3 Asia Pacific Smart Weather Data Sensor Market Size Forecast by Region

11.2.4 South America Smart Weather Data Sensor Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Smart Weather Data Sensor by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Smart Weather Data Sensor Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Smart Weather Data Sensor by Type (2026-2035)

12.1.2 Global Smart Weather Data Sensor Market Size Forecast by Type (2026-2035)

- 12.1.3 Global Forecasted Price of Smart Weather Data Sensor by Type (2026-2035)
- 12.2 Global Smart Weather Data Sensor Market Forecast by Application (2026-2035)
 - 12.2.1 Global Smart Weather Data Sensor Sales (K Units) Forecast by Application
 - 12.2.2 Global Smart Weather Data Sensor Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Smart Weather Data Sensor Market Size by Type (M USD)

Table 4. Global Smart Weather Data Sensor Market Size by Application

Table 5. Smart Weather Data Sensor Market Size Comparison by Region (M USD)

Table 6. Global Smart Weather Data Sensor Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Smart Weather Data Sensor Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Smart Weather Data Sensor Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Smart Weather Data Sensor Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Smart Weather Data Sensor as of 2025)

Table 11. Global Market Smart Weather Data Sensor Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Smart Weather Data Sensor Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Smart Weather Data Sensor Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Smart Weather Data Sensor Sales by Type (K Units)

Table 27. Global Smart Weather Data Sensor Market Size by Type (M USD)

- Table 28. Global Smart Weather Data Sensor Sales (K Units) by Type (2020-2025)
- Table 29. Global Smart Weather Data Sensor Sales Market Share by Type (2020-2025)
- Table 30. Global Smart Weather Data Sensor Market Size (M USD) by Type (2020-2025)
- Table 31. Global Smart Weather Data Sensor Market Share by Type (2020-2025)
- Table 32. Global Smart Weather Data Sensor Price (USD/Unit) by Type (2020-2025)
- Table 33. Global Smart Weather Data Sensor Sales (K Units) by Application
- Table 34. Global Smart Weather Data Sensor Market Size by Application
- Table 35. Global Smart Weather Data Sensor Sales by Application (2020-2025) & (K Units)
- Table 36. Global Smart Weather Data Sensor Sales Market Share by Application (2020-2025)
- Table 37. Global Smart Weather Data Sensor Market Size by Application (2020-2025) & (M USD)
- Table 38. Global Smart Weather Data Sensor Market Share by Application (2020-2025)
- Table 39. Global Smart Weather Data Sensor Sales Growth Rate by Application (2020-2025)
- Table 40. Global Smart Weather Data Sensor Sales by Region (2020-2025) & (K Units)
- Table 41. Global Smart Weather Data Sensor Sales Market Share by Region (2020-2025)
- Table 42. Global Smart Weather Data Sensor Market Size by Region (2020-2025) & (M USD)
- Table 43. Global Smart Weather Data Sensor Market Size by Region (2020-2025)
- Table 44. North America Smart Weather Data Sensor Sales by Country (2020-2025) & (K Units)
- Table 45. North America Smart Weather Data Sensor Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe Smart Weather Data Sensor Sales by Country (2020-2025) & (K Units)
- Table 47. Europe Smart Weather Data Sensor Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific Smart Weather Data Sensor Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific Smart Weather Data Sensor Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Smart Weather Data Sensor Sales by Country (2020-2025) & (K Units)
- Table 51. South America Smart Weather Data Sensor Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Smart Weather Data Sensor Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa Smart Weather Data Sensor Market Size by Region (2020-2025) & (M USD)

Table 54. Global Smart Weather Data Sensor Production (K Units) by Region(2020-2025)

Table 55. Global Smart Weather Data Sensor Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Smart Weather Data Sensor Revenue Market Share by Region (2020-2025)

Table 57. Global Smart Weather Data Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Smart Weather Data Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Smart Weather Data Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Smart Weather Data Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Smart Weather Data Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Met One Basic Information

Table 63. Met One Smart Weather Data Sensor Product Overview

Table 64. Met One Smart Weather Data Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Met One Business Overview

Table 66. Met One SWOT Analysis

Table 67. Met One Recent Developments

Table 68. ENVIRA Basic Information

Table 69. ENVIRA Smart Weather Data Sensor Product Overview

Table 70. ENVIRA Smart Weather Data Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. ENVIRA Business Overview

Table 72. ENVIRA SWOT Analysis

Table 73. ENVIRA Recent Developments

Table 74. Vaisala Basic Information

Table 75. Vaisala Smart Weather Data Sensor Product Overview

Table 76. Vaisala Smart Weather Data Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. Vaisala Business Overview

- Table 78. Vaisala SWOT Analysis
- Table 79. Vaisala Recent Developments
- Table 80. RM Young Basic Information
- Table 81. RM Young Smart Weather Data Sensor Product Overview
- Table 82. RM Young Smart Weather Data Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. RM Young Business Overview
- Table 84. RM Young Recent Developments
- Table 85. Onetemp Basic Information
- Table 86. Onetemp Smart Weather Data Sensor Product Overview
- Table 87. Onetemp Smart Weather Data Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. Onetemp Business Overview
- Table 89. Onetemp Recent Developments
- Table 90. Campbell Scientific Basic Information
- Table 91. Campbell Scientific Smart Weather Data Sensor Product Overview
- Table 92. Campbell Scientific Smart Weather Data Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. Campbell Scientific Business Overview
- Table 94. Campbell Scientific Recent Developments
- Table 95. Lufft Basic Information
- Table 96. Lufft Smart Weather Data Sensor Product Overview
- Table 97. Lufft Smart Weather Data Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. Lufft Business Overview
- Table 99. Lufft Recent Developments
- Table 100. Meter Group Basic Information
- Table 101. Meter Group Smart Weather Data Sensor Product Overview
- Table 102. Meter Group Smart Weather Data Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 103. Meter Group Business Overview
- Table 104. Meter Group Recent Developments
- Table 105. Aeron Systems Basic Information
- Table 106. Aeron Systems Smart Weather Data Sensor Product Overview
- Table 107. Aeron Systems Smart Weather Data Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 108. Aeron Systems Business Overview
- Table 109. Aeron Systems Recent Developments
- Table 110. Siemens Basic Information

- Table 111. Siemens Smart Weather Data Sensor Product Overview
- Table 112. Siemens Smart Weather Data Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 113. Siemens Business Overview
- Table 114. Siemens Recent Developments
- Table 115. Ahlborn Basic Information
- Table 116. Ahlborn Smart Weather Data Sensor Product Overview
- Table 117. Ahlborn Smart Weather Data Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 118. Ahlborn Business Overview
- Table 119. Ahlborn Recent Developments
- Table 120. PULSONIC Basic Information
- Table 121. PULSONIC Smart Weather Data Sensor Product Overview
- Table 122. PULSONIC Smart Weather Data Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 123. PULSONIC Business Overview
- Table 124. PULSONIC Recent Developments
- Table 125. BARANI DESIGN Technologies Basic Information
- Table 126. BARANI DESIGN Technologies Smart Weather Data Sensor Product Overview
- Table 127. BARANI DESIGN Technologies Smart Weather Data Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 128. BARANI DESIGN Technologies Business Overview
- Table 129. BARANI DESIGN Technologies Recent Developments
- Table 130. Davis Instruments Basic Information
- Table 131. Davis Instruments Smart Weather Data Sensor Product Overview
- Table 132. Davis Instruments Smart Weather Data Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 133. Davis Instruments Business Overview
- Table 134. Davis Instruments Recent Developments
- Table 135. Gill Instruments Basic Information
- Table 136. Gill Instruments Smart Weather Data Sensor Product Overview
- Table 137. Gill Instruments Smart Weather Data Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 138. Gill Instruments Business Overview
- Table 139. Gill Instruments Recent Developments
- Table 140. OTT HydroMet Basic Information
- Table 141. OTT HydroMet Smart Weather Data Sensor Product Overview
- Table 142. OTT HydroMet Smart Weather Data Sensor Sales (K Units), Revenue (M

USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 143. OTT HydroMet Business Overview

Table 144. OTT HydroMet Recent Developments

Table 145. Global Smart Weather Data Sensor Sales Forecast by Region (2026-2035) & (K Units)

Table 146. Global Smart Weather Data Sensor Market Size Forecast by Region (2026-2035) & (M USD)

Table 147. North America Smart Weather Data Sensor Sales Forecast by Country (2026-2035) & (K Units)

Table 148. North America Smart Weather Data Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 149. Europe Smart Weather Data Sensor Sales Forecast by Country (2026-2035) & (K Units)

Table 150. Europe Smart Weather Data Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 151. Asia Pacific Smart Weather Data Sensor Sales Forecast by Region (2026-2035) & (K Units)

Table 152. Asia Pacific Smart Weather Data Sensor Market Size Forecast by Region (2026-2035) & (M USD)

Table 153. South America Smart Weather Data Sensor Sales Forecast by Country (2026-2035) & (K Units)

Table 154. South America Smart Weather Data Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 155. Middle East and Africa Smart Weather Data Sensor Sales Forecast by Country (2026-2035) & (Units)

Table 156. Middle East and Africa Smart Weather Data Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 157. Global Smart Weather Data Sensor Sales Forecast by Type (2026-2035) & (K Units)

Table 158. Global Smart Weather Data Sensor Market Size Forecast by Type (2026-2035) & (M USD)

Table 159. Global Smart Weather Data Sensor Price Forecast by Type (2026-2035) & (USD/Unit)

Table 160. Global Smart Weather Data Sensor Sales (K Units) Forecast by Application (2026-2035)

Table 161. Global Smart Weather Data Sensor Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Smart Weather Data Sensor
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Smart Weather Data Sensor Market Size (M USD), 2025-2035
- Figure 5. Global Smart Weather Data Sensor Market Size (M USD) (2020-2035)
- Figure 6. Global Smart Weather Data Sensor Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Smart Weather Data Sensor Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Smart Weather Data Sensor Product Life Cycle
- Figure 13. Smart Weather Data Sensor Sales Share by Manufacturers in 2025
- Figure 14. Global Smart Weather Data Sensor Revenue Share by Manufacturers in 2025
- Figure 15. Smart Weather Data Sensor Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Smart Weather Data Sensor Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Smart Weather Data Sensor Revenue in 2025
- Figure 18. Industry Chain Map of Smart Weather Data Sensor
- Figure 19. Global Smart Weather Data Sensor Market PEST Analysis
- Figure 20. Global Smart Weather Data Sensor Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Smart Weather Data Sensor Market Share by Type
- Figure 27. Sales Market Share of Smart Weather Data Sensor by Type (2020-2025)
- Figure 28. Sales Market Share of Smart Weather Data Sensor by Type in 2025
- Figure 29. Market Share of Smart Weather Data Sensor by Type (2020-2025)
- Figure 30. Market Share of Smart Weather Data Sensor by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

- Figure 32. Global Smart Weather Data Sensor Market Share by Application
- Figure 33. Global Smart Weather Data Sensor Sales Market Share by Application (2020-2025)
- Figure 34. Global Smart Weather Data Sensor Sales Market Share by Application in 2025
- Figure 35. Global Smart Weather Data Sensor Market Share by Application (2020-2025)
- Figure 36. Global Smart Weather Data Sensor Market Share by Application in 2025
- Figure 37. Global Smart Weather Data Sensor Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Smart Weather Data Sensor Sales Market Share by Region (2020-2025)
- Figure 39. Global Smart Weather Data Sensor Market Size by Region (2020-2025)
- Figure 40. North America Smart Weather Data Sensor Sales and Growth Rate (2020-2025) & (K Units)
- Figure 41. North America Smart Weather Data Sensor Sales and Growth Rate (2020-2025) & (K Units)
- Figure 42. North America Smart Weather Data Sensor Sales Market Share by Country in 2024
- Figure 43. North America Smart Weather Data Sensor Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Smart Weather Data Sensor Market Size by Country in 2024
- Figure 45. U.S. Smart Weather Data Sensor Sales and Growth Rate (2020-2025) & (K Units)
- Figure 46. U.S. Smart Weather Data Sensor Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Smart Weather Data Sensor Sales (K Units) and Growth Rate (2020-2025)
- Figure 48. Canada Smart Weather Data Sensor Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Smart Weather Data Sensor Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Smart Weather Data Sensor Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe Smart Weather Data Sensor Sales and Growth Rate (2020-2025) & (K Units)
- Figure 52. Europe Smart Weather Data Sensor Sales Market Share by Country in 2024
- Figure 53. Europe Smart Weather Data Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Smart Weather Data Sensor Market Size by Country in 2024

Figure 55. Germany Smart Weather Data Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Smart Weather Data Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Smart Weather Data Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Smart Weather Data Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Smart Weather Data Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Smart Weather Data Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Smart Weather Data Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Smart Weather Data Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Smart Weather Data Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Smart Weather Data Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Smart Weather Data Sensor Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Smart Weather Data Sensor Sales Market Share by Region in 2024

Figure 67. Asia Pacific Smart Weather Data Sensor Market Size by Region in 2024

Figure 68. China Smart Weather Data Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Smart Weather Data Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Smart Weather Data Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Smart Weather Data Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Smart Weather Data Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Smart Weather Data Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Smart Weather Data Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Smart Weather Data Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Smart Weather Data Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Smart Weather Data Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Smart Weather Data Sensor Sales and Growth Rate (K Units)

Figure 79. South America Smart Weather Data Sensor Sales Market Share by Country in 2024

Figure 80. South America Smart Weather Data Sensor Market Size and Growth Rate (M USD)

Figure 81. South America Smart Weather Data Sensor Market Size by Country in 2024

Figure 82. Brazil Smart Weather Data Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Smart Weather Data Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Smart Weather Data Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Smart Weather Data Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Smart Weather Data Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Smart Weather Data Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Smart Weather Data Sensor Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Smart Weather Data Sensor Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Smart Weather Data Sensor Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Smart Weather Data Sensor Market Size by Region in 2024

Figure 92. Saudi Arabia Smart Weather Data Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Smart Weather Data Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Smart Weather Data Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Smart Weather Data Sensor Market Size and Growth Rate (2020-2025)

& (M USD)

Figure 96. Egypt Smart Weather Data Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Smart Weather Data Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Smart Weather Data Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Smart Weather Data Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Smart Weather Data Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Smart Weather Data Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Smart Weather Data Sensor Production Market Share by Region (2020-2025)

Figure 103. North America Smart Weather Data Sensor Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Smart Weather Data Sensor Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Smart Weather Data Sensor Production (K Units) Growth Rate (2020-2025)

Figure 106. China Smart Weather Data Sensor Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Smart Weather Data Sensor Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Smart Weather Data Sensor Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Smart Weather Data Sensor Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Smart Weather Data Sensor Market Share Forecast by Type (2026-2035)

Figure 111. Global Smart Weather Data Sensor Sales Forecast by Application (2026-2035)

Figure 112. Global Smart Weather Data Sensor Market Share Forecast by Application (2026-2035)

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