

Global Weather Measuring Instruments Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Weather Measuring Instruments competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. In 2024, the global weather measuring instrument market will see sales of approximately 3.41 million units, with an average price of approximately \$620 per unit and an overall gross profit margin of approximately 38%. Weather measuring instruments are specialized devices used to collect and monitor meteorological data such as temperature, humidity, wind speed, wind direction, atmospheric pressure, precipitation, and radiation intensity in real time. They are widely used in meteorological observatories, agricultural climate monitoring, environmental protection, aviation and navigation, construction, and outdoor sports. Market growth is driven by multiple factors, including increased demand for weather monitoring due to global climate change, the rapid development of smart agriculture and environmental monitoring, and the maturity of sensor and wireless communication technologies. However, this market is also hindered by factors such as rising R&D costs due to high precision requirements, unstable government procurement budgets, and inconsistent standards across countries. Future opportunities lie primarily in the integration of the Internet of Things and big data platforms, the expansion of low-cost portable weather instruments into the consumer market, and growing investment in agriculture and disaster prevention and mitigation in emerging countries. The upstream supply chain primarily includes raw materials such as sensor chips, air pressure sensors, and optical and electronic components. The downstream supply chain includes the National Meteorological Administration, research institutions, agricultural and environmental departments, and outdoor sports brands. Kestrel, a major manufacturer of portable weather instruments, boasts an annual production capacity of approximately 350,000 units, focusing on

portable and tactical applications. The market trend for weather measuring instruments is characterized by a convergence of intelligence, portability, and data. Global climate change and the frequent occurrence of extreme weather events are driving growing demand for high-precision, long-duration monitoring equipment from government agencies, research institutions, and industries such as agriculture, transportation, and energy. Furthermore, advances in sensors, miniaturized circuits, and wireless communication technologies are driving the popularity of portable, multi-parameter integrated products, expanding meteorological data collection from professional applications to include outdoor sports, disaster prevention and mitigation, and the consumer market. Furthermore, the integration of the Internet of Things (IoT), big data, and AI analytics is enabling meteorological instruments to evolve from simple data collection to intelligent monitoring and forecasting capabilities, enhancing the value of downstream users. Overall, the industry is expected to maintain medium-to-high growth over the next few years. Agricultural modernization and infrastructure development in emerging countries will represent new growth markets, while the competitive landscape is shifting towards technological innovation and branding.

The global Weather Measuring Instruments market size was estimated at USD 2114.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 6.30% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Weather Measuring Instruments 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 Weather Measuring Instruments 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 Weather Measuring Instruments market.

Global Weather Measuring Instruments 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

Vaisala
Met One Instruments
Gill Instruments
Davis Instruments
Campbell Scientific
Oregon Scientific
Xylem
Changchun Meteorological
Kestrel
PCE Instruments
La Crosse Technology
Airmar
AcuRite
ADB SAFEGATE
Lufft

Market Segmentation (by Type)

Anemometer

Barometer
Hygrometer
Weather Station
Others

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 Weather Measuring Instruments Market
Overview of the regional outlook of the Weather Measuring Instruments Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

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 Weather Measuring Instruments 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 Weather Measuring Instruments, 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 Weather Measuring Instruments
- 1.2 Key Market Segments
 - 1.2.1 Weather Measuring Instruments Segment by Type
 - 1.2.2 Weather Measuring Instruments 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 WEATHER MEASURING INSTRUMENTS MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Weather Measuring Instruments Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Weather Measuring Instruments Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 WEATHER MEASURING INSTRUMENTS MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Weather Measuring Instruments Product Life Cycle
- 3.3 Global Weather Measuring Instruments Sales by Manufacturers (2020-2025)
- 3.4 Global Weather Measuring Instruments Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Weather Measuring Instruments Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Weather Measuring Instruments Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Weather Measuring Instruments Market Competitive Situation and Trends
 - 3.8.1 Weather Measuring Instruments Market Concentration Rate

3.8.2 Global 5 and 10 Largest Weather Measuring Instruments Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 WEATHER MEASURING INSTRUMENTS INDUSTRY CHAIN ANALYSIS

4.1 Weather Measuring Instruments 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 WEATHER MEASURING INSTRUMENTS 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 Weather Measuring Instruments 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 Weather Measuring Instruments Market

5.7 ESG Ratings of Leading Companies

6 WEATHER MEASURING INSTRUMENTS MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Weather Measuring Instruments Sales Market Share by Type (2020-2025)

6.3 Global Weather Measuring Instruments Market Size by Type (2020-2025)

6.4 Global Weather Measuring Instruments Price by Type (2020-2025)

7 WEATHER MEASURING INSTRUMENTS MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Weather Measuring Instruments Market Sales by Application (2020-2025)

7.3 Global Weather Measuring Instruments Market Size (M USD) by Application (2020-2025)

7.4 Global Weather Measuring Instruments Sales Growth Rate by Application (2020-2025)

8 WEATHER MEASURING INSTRUMENTS MARKET SALES BY REGION

8.1 Global Weather Measuring Instruments Sales by Region

8.1.1 Global Weather Measuring Instruments Sales by Region

8.1.2 Global Weather Measuring Instruments Sales Market Share by Region

8.2 Global Weather Measuring Instruments Market Size by Region

8.2.1 Global Weather Measuring Instruments Market Size by Region

8.2.2 Global Weather Measuring Instruments Market Size by Region

8.3 North America

8.3.1 North America Weather Measuring Instruments Sales by Country

8.3.2 North America Weather Measuring Instruments 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 Weather Measuring Instruments Sales by Country

8.4.2 Europe Weather Measuring Instruments 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 Weather Measuring Instruments Sales by Region

8.5.2 Asia Pacific Weather Measuring Instruments 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 Weather Measuring Instruments Sales by Country
 - 8.6.2 South America Weather Measuring Instruments 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 Weather Measuring Instruments Sales by Region
 - 8.7.2 Middle East and Africa Weather Measuring Instruments 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 WEATHER MEASURING INSTRUMENTS MARKET PRODUCTION BY REGION

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

- 9.7.1 China Weather Measuring Instruments Production Growth Rate (2020-2025)
- 9.7.2 China Weather Measuring Instruments Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Vaisala

- 10.1.1 Vaisala Basic Information
- 10.1.2 Vaisala Weather Measuring Instruments Product Overview
- 10.1.3 Vaisala Weather Measuring Instruments Product Market Performance
- 10.1.4 Vaisala Business Overview
- 10.1.5 Vaisala SWOT Analysis
- 10.1.6 Vaisala Recent Developments

10.2 Met One Instruments

- 10.2.1 Met One Instruments Basic Information
- 10.2.2 Met One Instruments Weather Measuring Instruments Product Overview
- 10.2.3 Met One Instruments Weather Measuring Instruments Product Market Performance
- 10.2.4 Met One Instruments Business Overview
- 10.2.5 Met One Instruments SWOT Analysis
- 10.2.6 Met One Instruments Recent Developments

10.3 Gill Instruments

- 10.3.1 Gill Instruments Basic Information
- 10.3.2 Gill Instruments Weather Measuring Instruments Product Overview
- 10.3.3 Gill Instruments Weather Measuring Instruments Product Market Performance
- 10.3.4 Gill Instruments Business Overview
- 10.3.5 Gill Instruments SWOT Analysis
- 10.3.6 Gill Instruments Recent Developments

10.4 Davis Instruments

- 10.4.1 Davis Instruments Basic Information
- 10.4.2 Davis Instruments Weather Measuring Instruments Product Overview
- 10.4.3 Davis Instruments Weather Measuring Instruments Product Market Performance
- 10.4.4 Davis Instruments Business Overview
- 10.4.5 Davis Instruments Recent Developments

10.5 Campbell Scientific

- 10.5.1 Campbell Scientific Basic Information
- 10.5.2 Campbell Scientific Weather Measuring Instruments Product Overview
- 10.5.3 Campbell Scientific Weather Measuring Instruments Product Market

Performance

- 10.5.4 Campbell Scientific Business Overview
- 10.5.5 Campbell Scientific Recent Developments

10.6 Oregon Scientific

- 10.6.1 Oregon Scientific Basic Information
- 10.6.2 Oregon Scientific Weather Measuring Instruments Product Overview
- 10.6.3 Oregon Scientific Weather Measuring Instruments Product Market Performance
- 10.6.4 Oregon Scientific Business Overview
- 10.6.5 Oregon Scientific Recent Developments

10.7 Xylem

- 10.7.1 Xylem Basic Information
- 10.7.2 Xylem Weather Measuring Instruments Product Overview
- 10.7.3 Xylem Weather Measuring Instruments Product Market Performance
- 10.7.4 Xylem Business Overview
- 10.7.5 Xylem Recent Developments

10.8 Changchun Meteorological

- 10.8.1 Changchun Meteorological Basic Information
- 10.8.2 Changchun Meteorological Weather Measuring Instruments Product Overview
- 10.8.3 Changchun Meteorological Weather Measuring Instruments Product Market

Performance

- 10.8.4 Changchun Meteorological Business Overview
- 10.8.5 Changchun Meteorological Recent Developments

10.9 Kestrel

- 10.9.1 Kestrel Basic Information
- 10.9.2 Kestrel Weather Measuring Instruments Product Overview
- 10.9.3 Kestrel Weather Measuring Instruments Product Market Performance
- 10.9.4 Kestrel Business Overview
- 10.9.5 Kestrel Recent Developments

10.10 PCE Instruments

- 10.10.1 PCE Instruments Basic Information
- 10.10.2 PCE Instruments Weather Measuring Instruments Product Overview
- 10.10.3 PCE Instruments Weather Measuring Instruments Product Market

Performance

- 10.10.4 PCE Instruments Business Overview
- 10.10.5 PCE Instruments Recent Developments

10.11 La Crosse Technology

- 10.11.1 La Crosse Technology Basic Information
- 10.11.2 La Crosse Technology Weather Measuring Instruments Product Overview
- 10.11.3 La Crosse Technology Weather Measuring Instruments Product Market

Performance

- 10.11.4 La Crosse Technology Business Overview
- 10.11.5 La Crosse Technology Recent Developments

10.12 Airmar

- 10.12.1 Airmar Basic Information
- 10.12.2 Airmar Weather Measuring Instruments Product Overview
- 10.12.3 Airmar Weather Measuring Instruments Product Market Performance
- 10.12.4 Airmar Business Overview
- 10.12.5 Airmar Recent Developments

10.13 AcuRite

- 10.13.1 AcuRite Basic Information
- 10.13.2 AcuRite Weather Measuring Instruments Product Overview
- 10.13.3 AcuRite Weather Measuring Instruments Product Market Performance
- 10.13.4 AcuRite Business Overview
- 10.13.5 AcuRite Recent Developments

10.14 ADB SAFEGATE

- 10.14.1 ADB SAFEGATE Basic Information
- 10.14.2 ADB SAFEGATE Weather Measuring Instruments Product Overview
- 10.14.3 ADB SAFEGATE Weather Measuring Instruments Product Market

Performance

- 10.14.4 ADB SAFEGATE Business Overview
- 10.14.5 ADB SAFEGATE Recent Developments

10.15 Lufft

- 10.15.1 Lufft Basic Information
- 10.15.2 Lufft Weather Measuring Instruments Product Overview
- 10.15.3 Lufft Weather Measuring Instruments Product Market Performance
- 10.15.4 Lufft Business Overview
- 10.15.5 Lufft Recent Developments

11 WEATHER MEASURING INSTRUMENTS MARKET FORECAST BY REGION

11.1 Global Weather Measuring Instruments Market Size Forecast

11.2 Global Weather Measuring Instruments Market Forecast by Region

- 11.2.1 North America Market Size Forecast by Country
- 11.2.2 Europe Weather Measuring Instruments Market Size Forecast by Country
- 11.2.3 Asia Pacific Weather Measuring Instruments Market Size Forecast by Region
- 11.2.4 South America Weather Measuring Instruments Market Size Forecast by

Country

- 11.2.5 Middle East and Africa Forecasted Sales of Weather Measuring Instruments by

Country

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

12.1 Global Weather Measuring Instruments Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Weather Measuring Instruments by Type (2026-2035)

12.1.2 Global Weather Measuring Instruments Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Weather Measuring Instruments by Type (2026-2035)

12.2 Global Weather Measuring Instruments Market Forecast by Application (2026-2035)

12.2.1 Global Weather Measuring Instruments Sales (K Units) Forecast by Application

12.2.2 Global Weather Measuring Instruments 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 Weather Measuring Instruments Market Size by Type (M USD)

Table 4. Global Weather Measuring Instruments Market Size by Application

Table 5. Weather Measuring Instruments Market Size Comparison by Region (M USD)

Table 6. Global Weather Measuring Instruments Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Weather Measuring Instruments Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Weather Measuring Instruments Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Weather Measuring Instruments Revenue Share by Manufacturers (2020-2025)

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

Table 11. Global Market Weather Measuring Instruments Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Weather Measuring Instruments 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. Weather Measuring Instruments 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 Weather Measuring Instruments Sales by Type (K Units)

Table 27. Global Weather Measuring Instruments Market Size by Type (M USD)

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

- Table 50. South America Weather Measuring Instruments Sales by Country (2020-2025) & (K Units)
- Table 51. South America Weather Measuring Instruments Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa Weather Measuring Instruments Sales by Region (2020-2025) & (K Units)
- Table 53. Middle East and Africa Weather Measuring Instruments Market Size by Region (2020-2025) & (M USD)
- Table 54. Global Weather Measuring Instruments Production (K Units) by Region(2020-2025)
- Table 55. Global Weather Measuring Instruments Revenue (US\$ Million) by Region (2020-2025)
- Table 56. Global Weather Measuring Instruments Revenue Market Share by Region (2020-2025)
- Table 57. Global Weather Measuring Instruments Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 58. North America Weather Measuring Instruments Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 59. Europe Weather Measuring Instruments Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 60. Japan Weather Measuring Instruments Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 61. China Weather Measuring Instruments Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 62. Vaisala Basic Information
- Table 63. Vaisala Weather Measuring Instruments Product Overview
- Table 64. Vaisala Weather Measuring Instruments Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 65. Vaisala Business Overview
- Table 66. Vaisala SWOT Analysis
- Table 67. Vaisala Recent Developments
- Table 68. Met One Instruments Basic Information
- Table 69. Met One Instruments Weather Measuring Instruments Product Overview
- Table 70. Met One Instruments Weather Measuring Instruments Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 71. Met One Instruments Business Overview
- Table 72. Met One Instruments SWOT Analysis
- Table 73. Met One Instruments Recent Developments
- Table 74. Gill Instruments Basic Information

- Table 75. Gill Instruments Weather Measuring Instruments Product Overview
- Table 76. Gill Instruments Weather Measuring Instruments Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 77. Gill Instruments Business Overview
- Table 78. Gill Instruments SWOT Analysis
- Table 79. Gill Instruments Recent Developments
- Table 80. Davis Instruments Basic Information
- Table 81. Davis Instruments Weather Measuring Instruments Product Overview
- Table 82. Davis Instruments Weather Measuring Instruments Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. Davis Instruments Business Overview
- Table 84. Davis Instruments Recent Developments
- Table 85. Campbell Scientific Basic Information
- Table 86. Campbell Scientific Weather Measuring Instruments Product Overview
- Table 87. Campbell Scientific Weather Measuring Instruments Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. Campbell Scientific Business Overview
- Table 89. Campbell Scientific Recent Developments
- Table 90. Oregon Scientific Basic Information
- Table 91. Oregon Scientific Weather Measuring Instruments Product Overview
- Table 92. Oregon Scientific Weather Measuring Instruments Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. Oregon Scientific Business Overview
- Table 94. Oregon Scientific Recent Developments
- Table 95. Xylem Basic Information
- Table 96. Xylem Weather Measuring Instruments Product Overview
- Table 97. Xylem Weather Measuring Instruments Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. Xylem Business Overview
- Table 99. Xylem Recent Developments
- Table 100. Changchun Meteorological Basic Information
- Table 101. Changchun Meteorological Weather Measuring Instruments Product Overview
- Table 102. Changchun Meteorological Weather Measuring Instruments Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 103. Changchun Meteorological Business Overview
- Table 104. Changchun Meteorological Recent Developments
- Table 105. Kestrel Basic Information
- Table 106. Kestrel Weather Measuring Instruments Product Overview

- Table 107. Kestrel Weather Measuring Instruments Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 108. Kestrel Business Overview
- Table 109. Kestrel Recent Developments
- Table 110. PCE Instruments Basic Information
- Table 111. PCE Instruments Weather Measuring Instruments Product Overview
- Table 112. PCE Instruments Weather Measuring Instruments Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 113. PCE Instruments Business Overview
- Table 114. PCE Instruments Recent Developments
- Table 115. La Crosse Technology Basic Information
- Table 116. La Crosse Technology Weather Measuring Instruments Product Overview
- Table 117. La Crosse Technology Weather Measuring Instruments Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 118. La Crosse Technology Business Overview
- Table 119. La Crosse Technology Recent Developments
- Table 120. Airmar Basic Information
- Table 121. Airmar Weather Measuring Instruments Product Overview
- Table 122. Airmar Weather Measuring Instruments Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 123. Airmar Business Overview
- Table 124. Airmar Recent Developments
- Table 125. AcuRite Basic Information
- Table 126. AcuRite Weather Measuring Instruments Product Overview
- Table 127. AcuRite Weather Measuring Instruments Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 128. AcuRite Business Overview
- Table 129. AcuRite Recent Developments
- Table 130. ADB SAFEGATE Basic Information
- Table 131. ADB SAFEGATE Weather Measuring Instruments Product Overview
- Table 132. ADB SAFEGATE Weather Measuring Instruments Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 133. ADB SAFEGATE Business Overview
- Table 134. ADB SAFEGATE Recent Developments
- Table 135. Lufft Basic Information
- Table 136. Lufft Weather Measuring Instruments Product Overview
- Table 137. Lufft Weather Measuring Instruments Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 138. Lufft Business Overview

Table 139. Lufft Recent Developments

Table 140. Global Weather Measuring Instruments Sales Forecast by Region (2026-2035) & (K Units)

Table 141. Global Weather Measuring Instruments Market Size Forecast by Region (2026-2035) & (M USD)

Table 142. North America Weather Measuring Instruments Sales Forecast by Country (2026-2035) & (K Units)

Table 143. North America Weather Measuring Instruments Market Size Forecast by Country (2026-2035) & (M USD)

Table 144. Europe Weather Measuring Instruments Sales Forecast by Country (2026-2035) & (K Units)

Table 145. Europe Weather Measuring Instruments Market Size Forecast by Country (2026-2035) & (M USD)

Table 146. Asia Pacific Weather Measuring Instruments Sales Forecast by Region (2026-2035) & (K Units)

Table 147. Asia Pacific Weather Measuring Instruments Market Size Forecast by Region (2026-2035) & (M USD)

Table 148. South America Weather Measuring Instruments Sales Forecast by Country (2026-2035) & (K Units)

Table 149. South America Weather Measuring Instruments Market Size Forecast by Country (2026-2035) & (M USD)

Table 150. Middle East and Africa Weather Measuring Instruments Sales Forecast by Country (2026-2035) & (Units)

Table 151. Middle East and Africa Weather Measuring Instruments Market Size Forecast by Country (2026-2035) & (M USD)

Table 152. Global Weather Measuring Instruments Sales Forecast by Type (2026-2035) & (K Units)

Table 153. Global Weather Measuring Instruments Market Size Forecast by Type (2026-2035) & (M USD)

Table 154. Global Weather Measuring Instruments Price Forecast by Type (2026-2035) & (USD/Unit)

Table 155. Global Weather Measuring Instruments Sales (K Units) Forecast by Application (2026-2035)

Table 156. Global Weather Measuring Instruments Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Weather Measuring Instruments
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Weather Measuring Instruments Market Size (M USD), 2025-2035
- Figure 5. Global Weather Measuring Instruments Market Size (M USD) (2020-2035)
- Figure 6. Global Weather Measuring Instruments 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. Weather Measuring Instruments Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Weather Measuring Instruments Product Life Cycle
- Figure 13. Weather Measuring Instruments Sales Share by Manufacturers in 2025
- Figure 14. Global Weather Measuring Instruments Revenue Share by Manufacturers in 2025
- Figure 15. Weather Measuring Instruments Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Weather Measuring Instruments Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Weather Measuring Instruments Revenue in 2025
- Figure 18. Industry Chain Map of Weather Measuring Instruments
- Figure 19. Global Weather Measuring Instruments Market PEST Analysis
- Figure 20. Global Weather Measuring Instruments 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 Weather Measuring Instruments Market Share by Type
- Figure 27. Sales Market Share of Weather Measuring Instruments by Type (2020-2025)
- Figure 28. Sales Market Share of Weather Measuring Instruments by Type in 2025
- Figure 29. Market Share of Weather Measuring Instruments by Type (2020-2025)
- Figure 30. Market Share of Weather Measuring Instruments by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Weather Measuring Instruments Market Share by Application

Figure 33. Global Weather Measuring Instruments Sales Market Share by Application (2020-2025)

Figure 34. Global Weather Measuring Instruments Sales Market Share by Application in 2025

Figure 35. Global Weather Measuring Instruments Market Share by Application (2020-2025)

Figure 36. Global Weather Measuring Instruments Market Share by Application in 2025

Figure 37. Global Weather Measuring Instruments Sales Growth Rate by Application (2020-2025)

Figure 38. Global Weather Measuring Instruments Sales Market Share by Region (2020-2025)

Figure 39. Global Weather Measuring Instruments Market Size by Region (2020-2025)

Figure 40. North America Weather Measuring Instruments Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Weather Measuring Instruments Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Weather Measuring Instruments Sales Market Share by Country in 2024

Figure 43. North America Weather Measuring Instruments Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Weather Measuring Instruments Market Size by Country in 2024

Figure 45. U.S. Weather Measuring Instruments Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Weather Measuring Instruments Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Weather Measuring Instruments Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Weather Measuring Instruments Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Weather Measuring Instruments Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Weather Measuring Instruments Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Weather Measuring Instruments Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Weather Measuring Instruments Sales Market Share by Country in 2024

Figure 53. Europe Weather Measuring Instruments Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Weather Measuring Instruments Market Size by Country in 2024

Figure 55. Germany Weather Measuring Instruments Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Weather Measuring Instruments Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Weather Measuring Instruments Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Weather Measuring Instruments Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Weather Measuring Instruments Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Weather Measuring Instruments Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Weather Measuring Instruments Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Weather Measuring Instruments Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Weather Measuring Instruments Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Weather Measuring Instruments Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Weather Measuring Instruments Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Weather Measuring Instruments Sales Market Share by Region in 2024

Figure 67. Asia Pacific Weather Measuring Instruments Market Size by Region in 2024

Figure 68. China Weather Measuring Instruments Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Weather Measuring Instruments Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Weather Measuring Instruments Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Weather Measuring Instruments Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Weather Measuring Instruments Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Weather Measuring Instruments Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 74. India Weather Measuring Instruments Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Weather Measuring Instruments Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Weather Measuring Instruments Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Weather Measuring Instruments Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Weather Measuring Instruments Sales and Growth Rate (K Units)

Figure 79. South America Weather Measuring Instruments Sales Market Share by Country in 2024

Figure 80. South America Weather Measuring Instruments Market Size and Growth Rate (M USD)

Figure 81. South America Weather Measuring Instruments Market Size by Country in 2024

Figure 82. Brazil Weather Measuring Instruments Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Weather Measuring Instruments Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Weather Measuring Instruments Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Weather Measuring Instruments Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Weather Measuring Instruments Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Weather Measuring Instruments Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Weather Measuring Instruments Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Weather Measuring Instruments Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Weather Measuring Instruments Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Weather Measuring Instruments Market Size by Region in 2024

Figure 92. Saudi Arabia Weather Measuring Instruments Sales and Growth Rate (2020-2025) & (K Units)

- Figure 93. Saudi Arabia Weather Measuring Instruments Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 94. UAE Weather Measuring Instruments Sales and Growth Rate (2020-2025) & (K Units)
- Figure 95. UAE Weather Measuring Instruments Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 96. Egypt Weather Measuring Instruments Sales and Growth Rate (2020-2025) & (K Units)
- Figure 97. Egypt Weather Measuring Instruments Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 98. Nigeria Weather Measuring Instruments Sales and Growth Rate (2020-2025) & (K Units)
- Figure 99. Nigeria Weather Measuring Instruments Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 100. South Africa Weather Measuring Instruments Sales and Growth Rate (2020-2025) & (K Units)
- Figure 101. South Africa Weather Measuring Instruments Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 102. Global Weather Measuring Instruments Production Market Share by Region (2020-2025)
- Figure 103. North America Weather Measuring Instruments Production (K Units) Growth Rate (2020-2025)
- Figure 104. Europe Weather Measuring Instruments Production (K Units) Growth Rate (2020-2025)
- Figure 105. Japan Weather Measuring Instruments Production (K Units) Growth Rate (2020-2025)
- Figure 106. China Weather Measuring Instruments Production (K Units) Growth Rate (2020-2025)
- Figure 107. Global Weather Measuring Instruments Sales Forecast by Volume (2020-2035) & (K Units)
- Figure 108. Global Weather Measuring Instruments Market Size Forecast by Value (2020-2035) & (M USD)
- Figure 109. Global Weather Measuring Instruments Sales Market Share Forecast by Type (2026-2035)
- Figure 110. Global Weather Measuring Instruments Market Share Forecast by Type (2026-2035)
- Figure 111. Global Weather Measuring Instruments Sales Forecast by Application (2026-2035)
- Figure 112. Global Weather Measuring Instruments Market Share Forecast by

Application (2026-2035)

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