

Global Meteorological Device Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Meteorological Device market size was valued at USD 1556.8 million in 2023 and is forecast to a readjusted size of USD 2094 million by 2030 with a CAGR of 4.3% during review period.

Meteorological instruments (or weather instruments), including meteorological sensors (weather sensors), are the equipment used to find the state of the atmosphere at a given time.

There are various types of meteorological devices used to measure and monitor weather conditions. Some common types of meteorological devices include:

? Thermometer: Measures temperature, typically using a mercury or digital sensor.

? Barometer: Measures atmospheric pressure, indicating changes in weather patterns.

? Anemometer: Measures wind speed and direction.

? Hygrometer: Measures humidity levels in the air.

? Rain Gauge: Measures the amount of rainfall in a given area over a period of time.

? Pyranometer: Measures solar radiation, including both direct and diffuse sunlight.

? Weather Balloon: Carries instruments such as radiosondes to collect data about temperature, humidity, pressure, and wind at different altitudes.

? Weather Radar: Uses radio waves to detect precipitation, measure its intensity, and track its movement.

? Weather Station: A complete set of instruments that includes various sensors for measuring temperature, humidity, pressure, wind speed and direction, and sometimes additional parameters like UV index and precipitation.

Global key players of of Meteorological Device include Vaisala, Gill Instruments, Lambrecht meteo (AEM), R. M. Young Company and Davis Instruments, etc. The top five players hold a share over 20%. Vaisala is the largest manufacturer of Meteorological Device in the world, has a share about 10%. In terms of type, it mainly includes Thermometer, Hygrometer, Barometer and Anemometer which totally take up about 75 percent of all types of product. In terms of application, market data review and forecast by the following general application: Meteorology, environmental Protection, transportation and agriculture, etc, with a share over 80%.

The Global Info Research report includes an overview of the development of the Meteorological Device industry chain, the market status of Meteorology (Thermometer, Hygrometer), Environmental Protection (Thermometer, Hygrometer), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Meteorological Device.

Regionally, the report analyzes the Meteorological Device markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Meteorological Device market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Meteorological Device market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Meteorological Device industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size,

including the sales quantity (Unit), revenue generated, and market share of different by Type (e.g., Thermometer, Hygrometer).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Meteorological Device market.

Regional Analysis: The report involves examining the Meteorological Device market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Meteorological Device market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Meteorological Device:

Company Analysis: Report covers individual Meteorological Device manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Meteorological Device This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Meteorology, Environmental Protection).

Technology Analysis: Report covers specific technologies relevant to Meteorological Device. It assesses the current state, advancements, and potential future developments in Meteorological Device areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Meteorological Device market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Meteorological Device market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Thermometer

Hygrometer

Barometer

Anemometer

Rain Gauge

Weather Station

Others

Market segment by Application

Meteorology

Environmental Protection

Transportation

Agriculture

Renewable Energy

Research and Education

Aviation

Others

Major players covered

Vaisala

Gill Instruments

Lambrech meteo (AEM)

R. M. Young Company

Davis Instruments

ANEOS

Munro Instruments

Nielsen-Kellerman

Skyview Weather

Observator Instruments

Met One Instruments (Acoem)

BARANI

Airmar

METER Group

China Huayun Meteorological Technology

Shanghai Changwang Meteotech

Changchun Cmio Meteorological

Changchun Meteorological Instrument

Shandong Fengtu IOT Technology

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 Meteorological Device product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Meteorological Device, with price, sales, revenue and global market share of Meteorological Device from 2019 to 2024.

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

Chapter 4, the Meteorological Device breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share

and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Meteorological Device market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Meteorological Device.

Chapter 14 and 15, to describe Meteorological Device sales channel, distributors, customers, research findings and conclusion.

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