

Global Present Weather Monitoring Sensor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Present Weather Monitoring Sensor market size was valued at US\$ 31.28 million in 2025 and is forecast to a readjusted size of US\$ 39.63 million by 2032 with a CAGR of 3.5% during review period.

A Present Weather Monitoring Sensor is a specialized meteorological instrument designed to automatically detect and classify ongoing weather phenomena. Using optical techniques such as forward scatter or extinction, it analyzes the interaction between light and airborne particles or precipitation to identify conditions including rain, snow, mixed precipitation, fog, and haze, while simultaneously reporting visibility and related parameters. In 2025, global Present Weather Monitoring Sensor sales reached approximately 3,800 Units, with an average price of 8,000 US\$/Unit.

Present weather monitoring sensors are produced in relatively low volumes with project-driven manufacturing, relying on precision optics, electronics assembly, and rigorous calibration rather than mass production lines. Supported by technical barriers and safety-critical end users, the sector typically maintains mid-to-high gross margins, with an upstream supply chain focused on optical and electronic components, sensor manufacturing in the midstream, and downstream demand from aviation, transportation, and meteorological monitoring applications.

This report is a detailed and comprehensive analysis for global Present Weather Monitoring Sensor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as

well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Present Weather Monitoring Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

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

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

Global Present Weather Monitoring Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Present Weather Monitoring Sensor

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Present Weather Monitoring Sensor market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Campbell, Vaisala, Belfort Instrument, Senseca UK (Biral), Lufft, Boschung, ADB SAFEGATE (All Weather, Inc.), Optical Scientific Inc, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

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

Market segment by Type

Portable

Fixed

Market segment by Sensor

Forward Scatter Optical Sensor

Extinction / In-beam Optical Sensor

Laser Disdrometer-based Sensor

Market segment by Optical Configuration

Single-Angle Scatter Design

Multi-Angle Scatter Design

Market segment by Application

Aviation

Road & Transportation

Meteorological Networks

Others

Major players covered

Campbell

Vaisala

Belfort Instrument

Senseca UK (Biral)

Lufft

Boschung

ADB SAFEGATE (All Weather, Inc.)

Optical Scientific Inc

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 Present Weather Monitoring Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Present Weather Monitoring Sensor, with

price, sales quantity, revenue, and global market share of Present Weather Monitoring Sensor from 2021 to 2026.

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

Chapter 4, the Present Weather Monitoring Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Present Weather Monitoring Sensor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Present Weather Monitoring Sensor.

Chapter 14 and 15, to describe Present Weather Monitoring Sensor sales channel, distributors, customers, research findings and conclusion.

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