

Global Present Weather Sensors 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 Sensors 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 sensor is typically an optical instrument (often based on forward-scatter or extinction principles) that reports meteorological optical range (MOR) and automatically classifies ongoing weather phenomena—such as rain, snow, fog/haze, or mixed precipitation—sometimes also providing precipitation intensity and accumulation. It is widely deployed as a core field sensor within automated observing systems for aviation and surface networks to deliver consistent, unattended, near-real-time weather-phenomena and visibility reporting. In 2025, global present weather sensor sales reached approximately 3,800 Units, with an average price of 8,000 US\$/Unit.

Growth is primarily driven by safety-critical, automated operations: aviation surface observing networks remain a durable demand base (the U.S. ASOS network alone operates at 900+ sites), while modernization across surface observing networks (with a WMO-cited backbone of ~11,000 land stations) increases the need for standardized, machine-generated present-weather codes and visibility reporting—creating both new deployments and replacement cycles. Transportation monitoring further reinforces demand where actionable detection of fog and winter precipitation improves operational decision-making and warnings.

This report is a detailed and comprehensive analysis for global Present Weather Sensors 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 Sensors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

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

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

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

The Primary Objectives in This Report Are:

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

To assess the growth potential for Present Weather Sensors

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 Sensors 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 Sensors 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 Measurement Scope

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 Sensors product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Present Weather Sensors 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 Sensors 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 Sensors.

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

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