

Global Present Weather Monitoring Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Present Weather Monitoring Sensor market size is expected to reach \$ 39.63 million by 2032, rising at a market growth of 3.5% CAGR during the forecast period (2026-2032).

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 studies the global Present Weather Monitoring Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Present Weather Monitoring Sensor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends

and competition, as well as details the characteristics of Present Weather Monitoring Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Present Weather Monitoring Sensor total production and demand, 2021-2032, (Units)

Global Present Weather Monitoring Sensor total production value, 2021-2032, (USD Million)

Global Present Weather Monitoring Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Present Weather Monitoring Sensor consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Present Weather Monitoring Sensor domestic production, consumption, key domestic manufacturers and share

Global Present Weather Monitoring Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Present Weather Monitoring Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Present Weather Monitoring Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Present Weather Monitoring Sensor market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Present Weather Monitoring Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by

year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Present Weather Monitoring Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Present Weather Monitoring Sensor Market, Segmentation by Type:

Portable

Fixed

Global Present Weather Monitoring Sensor Market, Segmentation by Sensor:

Forward Scatter Optical Sensor

Extinction / In-beam Optical Sensor

Laser Disdrometer-based Sensor

Global Present Weather Monitoring Sensor Market, Segmentation by Optical

Configuration:

Single-Angle Scatter Design

Multi-Angle Scatter Design

Global Present Weather Monitoring Sensor Market, Segmentation by Application:

Aviation

Road & Transportation

Meteorological Networks

Others

Companies Profiled:

Campbell

Vaisala

Belfort Instrument

Senseca UK (Biral)

Lufft

Boschung

ADB SAFEGATE (All Weather, Inc.)

Optical Scientific Inc

Key Questions Answered:

1. How big is the global Present Weather Monitoring Sensor market?

2. What is the demand of the global Present Weather Monitoring Sensor market?
3. What is the year over year growth of the global Present Weather Monitoring Sensor market?
4. What is the production and production value of the global Present Weather Monitoring Sensor market?
5. Who are the key producers in the global Present Weather Monitoring Sensor market?
6. What are the growth factors driving the market demand?

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