

Global Present Weather Monitoring Sensor Market Growth 2026-2032

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Abstracts

The global Present Weather Monitoring Sensor market size is predicted to grow from US\$ 29.74 million in 2025 to US\$ 38.15 million in 2032; it is expected to grow at a CAGR of 3.7% from 2026 to 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.

United States market for Present Weather Monitoring Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Present Weather Monitoring Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Present Weather Monitoring Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Present Weather Monitoring Sensor players cover Campbell, Vaisala, Belfort Instrument, Senseca UK (Biral), Lufft, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Present Weather Monitoring Sensor Industry Forecast" looks at past sales and reviews total world Present Weather Monitoring Sensor sales in 2025, providing a comprehensive analysis by region and market sector of projected Present Weather Monitoring Sensor sales for 2026 through 2032. With Present Weather Monitoring Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Present Weather Monitoring Sensor industry.

This Insight Report provides a comprehensive analysis of the global Present Weather Monitoring Sensor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Present Weather Monitoring Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Present Weather Monitoring Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Present Weather Monitoring Sensor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Present Weather Monitoring Sensor.

This report presents a comprehensive overview, market shares, and growth opportunities of Present Weather Monitoring Sensor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Portable

Fixed

Segmentation by Sensor:

Forward Scatter Optical Sensor

Extinction / In-beam Optical Sensor

Laser Disdrometer-based Sensor

Segmentation by Optical Configuration:

Single-Angle Scatter Design

Multi-Angle Scatter Design

Segmentation by Application:

Aviation

Road & Transportation

Meteorological Networks

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Campbell

Vaisala

Belfort Instrument

Senseca UK (Biral)

Lufft

Boschung

ADB SAFEGATE (All Weather, Inc.)

Optical Scientific Inc

Key Questions Addressed in this Report

What is the 10-year outlook for the global Present Weather Monitoring Sensor market?

What factors are driving Present Weather Monitoring Sensor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Present Weather Monitoring Sensor market opportunities vary by end market size?

How does Present Weather Monitoring Sensor break out by Type, by Application?

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