

Global Aircraft Ice Accretion Detection 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 Aircraft Ice Accretion Detection Sensors market size was valued at US\$ 484 million in 2025 and is forecast to a readjusted size of US\$ 738 million by 2032 with a CAGR of 6.2% during review period.

Aircraft ice accretion detection sensors are specialized aerospace sensors designed to detect and measure the formation of ice on critical aircraft surfaces such as wings, engine inlets, and pitot tubes during flight. These sensors operate using technologies such as vibrating probes, optical detection, thermal sensing, or impedance measurement to identify ice buildup in real time and trigger anti-icing or de-icing systems. From a value chain perspective, upstream includes precision electronics, aerospace-grade materials, sensing elements, and embedded systems; midstream involves sensor design, calibration, environmental testing, and certification under aviation standards (e.g., FAA, EASA); downstream demand comes from commercial aircraft manufacturers, military aviation programs, business jets, and retrofit markets. In 2025, the average selling price is approximately US\$2,850 per unit, with global shipments around 165,000 units. The industry maintains gross margins of 38%–55%, supported by high reliability requirements, certification barriers, and long aircraft lifecycle demand.

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

Global Aircraft Ice Accretion Detection 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 Aircraft Ice Accretion Detection 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 Aircraft Ice Accretion Detection 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 Aircraft Ice Accretion Detection 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 Aircraft Ice Accretion Detection 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 Collins Aerospace, Honeywell Aerospace, Curtiss-Wright, Goodrich (RTX), Meggitt (Parker Meggitt), Safran Electronics & Defense, Thales, United Electric Controls, Rosemount Aerospace (Emerson), Zhejiang Windey, etc.

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

Market Segmentation

Aircraft Ice Accretion Detection 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

Vibrating Probe Sensors

Optical Ice Detection

Thermal Sensors

Impedance-based Sensors

Market segment by System Integration

Standalone Sensors

Integrated Ice Protection Systems

Avionics-integrated Sensors

Market segment by Output Type

Analog Output

Digital Output

Smart Sensor (Self-diagnostic)

Market segment by Application

Commercial Aircraft

Military Aircraft

Business Jets

UAV / Drones

Major players covered

Collins Aerospace

Honeywell Aerospace

Curtiss-Wright

Goodrich (RTX)

Meggitt (Parker Meggitt)

Safran Electronics & Defense

Thales

United Electric Controls

Rosemount Aerospace (Emerson)

Zhejiang Windey

AVIC Avionics Systems

Shanghai Aircraft Manufacturing (AVIC)

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 Aircraft Ice Accretion Detection Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Aircraft Ice Accretion Detection Sensors, with price, sales quantity, revenue, and global market share of Aircraft Ice Accretion Detection Sensors from 2021 to 2026.

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

Chapter 4, the Aircraft Ice Accretion Detection 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 Aircraft Ice Accretion Detection 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 Aircraft Ice Accretion Detection Sensors.

Chapter 14 and 15, to describe Aircraft Ice Accretion Detection Sensors sales channel, distributors, customers, research findings and conclusion.

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