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Global Aircraft Temperature Sensors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Aircraft Temperature Sensors market size is expected to reach $ 863 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

Aircraft Temperature Sensors are airborne sensing devices designed to measure temperature at critical locations within fixed-wing aircraft and convert the measured condition into resistance, thermoelectric voltage, analog output or digital data for flight, engine and system control. The market covers total air temperature and outside air temperature probes, engine exhaust gas, turbine inlet and interstage temperature sensors, cylinder-head probes, and sensors for fuel, oil, hydraulic fluid, bleed air, brakes, cabin environments, batteries and electronic equipment. Typical products integrate a thermocouple, platinum resistance temperature detector, thermistor or semiconductor sensing element with a metallic sheath, ceramic or mineral insulation, lead wires, an aerospace connector, mounting hardware and, where required, anti-icing heaters, redundant sensing elements or signal-conditioning electronics. Key specifications include temperature range, accuracy, response time, drift, insulation resistance, vibration resistance, thermal-shock endurance, interchangeability, redundancy, weight and environmental qualification. Aircraft Temperature Sensors provide inputs to air-data computers, engine control systems, cockpit displays, environmental controls and health-monitoring systems for performance calculation, overtemperature protection, fuel management, fault diagnosis and maintenance planning.

In 2025, global aircraft temperature sensor production reached approximately 1325 k units, the average price is 450 usd/unit.

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Key Findings

General aviation probe prices commonly range from approximately USD 55 to USD 180 per unit

Certified outside-air temperature probes can approach USD 600 per unit in the general aviation market

Transport-category total air temperature probes typically carry prices of several thousand dollars per unit

RTDs dominate precision air and fluid measurements while thermocouples remain central to high-temperature engine sensing

Market Trends

The Aircraft Temperature Sensors market is moving from stand-alone analog probes toward more integrated, redundant and health-monitoring-oriented sensing architectures. Total air temperature products are being upgraded through more robust sensing elements, tighter accuracy under sideslip conditions, improved ice-crystal tolerance and self-regulated anti-icing heaters. Engine applications increasingly require sensors that combine rapid thermal response with resistance to vibration, oxidation, pressure cycling and prolonged exposure to extreme gas-path temperatures. Airframe manufacturers are also seeking lighter probes, smaller connectors, dual- or triple-element redundancy and designs that integrate more readily with digital engine controls, air-data computers and aircraft health-management systems. Platinum RTDs remain important where repeatability, stability and moderate-temperature accuracy are decisive, while thermocouples continue to dominate turbine, exhaust and other high-temperature locations. New aircraft architectures are widening the addressable measurement range to batteries, electric motors, inverters and power-distribution equipment, creating demand for electrically insulated, lightweight and multi-point sensing solutions. Long-term product differentiation will depend less on the sensing element alone and more on packaging design, environmental qualification, calibration stability, fault detection and the ability to remain supported throughout an aircraft platform’s operating life.

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Market Dynamics

Drivers

Demand for Aircraft Temperature Sensors is supported by new aircraft production, engine deliveries, fleet utilization and the recurring replacement requirements of installed aircraft. GAMA reported 1,782 piston-airplane, 594 turboprop and 854 business-jet deliveries in 2025, each of which requires multiple temperature-measurement points across engines, air-data systems, fluids, environmental controls and onboard equipment. Safety and operating efficiency are fundamental demand drivers because inaccurate temperature information can affect airspeed calculations, engine fuel scheduling, turbine-temperature protection, cooling-system performance and maintenance decisions. Modern propulsion systems also use temperature measurements as essential inputs for electronic engine control and condition monitoring. Aircraft operators increasingly seek predictive maintenance and better fault isolation to reduce unscheduled removals and aircraft-on-ground events, supporting demand for stable sensors with known drift characteristics and traceable calibration. The growing electronic and thermal load of avionics, connectivity equipment and electrified subsystems further increases the number of temperature-monitoring points required per aircraft.

Restraints

The market is constrained by lengthy qualification cycles, highly platform-specific designs and relatively low production volumes for many individual part numbers. A temperature sensor intended for airborne installation may need to withstand combinations of altitude, vibration, shock, humidity, fluids, icing, electromagnetic interference and rapid temperature change. RTCA DO-160G provides widely referenced environmental test procedures, but the required categories depend on the installation location and aircraft program, making qualification costly and difficult to standardize across platforms. Changes to sensing elements, sheath materials, connectors, manufacturing processes or suppliers may require renewed engineering substantiation and customer approval. Engine and external-air probes must also balance conflicting requirements such as fast response, structural strength, oxidation resistance and minimum heat-conduction error. Approved products frequently remain tied to specific aircraft, engine or system designs, limiting interchangeability and extending customer-validation periods. These characteristics increase development expense and create working-capital pressure, particularly for smaller suppliers maintaining numerous low-

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volume legacy products.

Opportunities

The installed aircraft fleet creates substantial opportunities in replacement, retrofit and lifecycle-extension programs. Temperature probes are exposed to vibration, contamination, thermal cycling, erosion and connector degradation, generating recurring demand during scheduled maintenance and engine overhaul. Suppliers can create additional value by developing approved alternatives for obsolete part numbers, providing shorter lead times and offering sensor-and-harness assemblies that simplify installation. Increasing use of connected aircraft health monitoring also creates opportunities for sensors with improved calibration stability, built-in diagnostics, redundant elements and outputs suitable for digital control systems. Electrified aircraft subsystems expand the application base beyond traditional engine and air-data measurements to battery packs, motors, power electronics, generators and high-voltage distribution equipment. Further opportunities exist in lighter RTD assemblies, high-temperature thermocouples, flexible surface sensors and multi-point arrays capable of monitoring temperature gradients rather than a single location. Manufacturers that combine sensing-element technology, mechanical packaging, environmental testing, calibration and airworthiness documentation are positioned to capture more value than component-only suppliers.

Challenges

Aircraft Temperature Sensors manufacturers must maintain reliable production and technical support over aircraft and engine lifecycles that can extend for several decades. Batch-to-batch variation in platinum resistance, thermocouple output, insulation quality, sheath geometry or junction construction can influence calibration, response time and long-term drift. Suppliers must therefore sustain material traceability, special-process controls and calibrated test equipment even when annual demand for an individual part number is limited. Counterfeit or inadequately documented replacement parts create additional safety and commercial risks in the aftermarket, while approved replacement products must be shown to be suitable for the applicable aircraft configuration. Supply-chain concentration in platinum, nickel alloys, mineral-insulated cable, aerospace connectors and specialist welding processes can affect lead times. The industry also faces increasing pressure to improve accuracy and reliability without adding weight, electrical load or installation complexity. Competitive success requires simultaneous expertise in sensing physics, metallurgy, aerodynamics,

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electronics, certification and aircraft-system integration, creating a high technical threshold for new entrants.

Industry Chain Analysis

The upstream chain includes platinum and nickel resistance materials, nickel-based thermocouple alloys, metal-oxide thermistor ceramics, semiconductor sensing dies, stainless steel and nickel-alloy sheaths, magnesium-oxide insulation, alumina ceramics, glass-to-metal seals, high-temperature wires, aerospace connectors and anti-icing heater elements. Component suppliers provide RTD chips, wound platinum elements, thermocouple wire, mineral-insulated cable, precision resistors and signal-conditioning electronics. Material selection is closely linked to application temperature and environment: platinum supports stable precision measurement, thermocouple alloys enable measurement in engine hot sections, and nickel-based housings provide oxidation and fatigue resistance. Input-material cost is important, particularly for platinum and specialty alloys, but it usually represents a smaller portion of final product value than engineering, qualification and quality assurance.

Midstream activities include sensing-element fabrication, junction welding, sheath assembly, mineral-insulation compaction, machining, hermetic sealing, connector installation, heater integration, calibration and environmental testing. Higher-tier suppliers integrate probes with wiring harnesses, signal-conditioning modules or air-data and engine-control interfaces. Value creation is concentrated in response-time control, calibration repeatability, thermal-conduction-error management, vibration endurance, packaging reliability and successful platform qualification. Downstream customers include airframe OEMs, engine and APU manufacturers, air-data and avionics suppliers, airlines, business-aircraft operators, general aviation owners, military users and MRO organizations. Original-equipment contracts provide long program duration but involve extensive qualification and pricing pressure, while aftermarket products can achieve higher unit values because customers require approved configuration, documentation, traceability and rapid AOG availability.

Segment Insights

By sensing technology, RTD and platinum resistance products represent the central segment for total and outside air temperature, fuel, oil, hydraulic and environmental-control measurements. Their advantages include repeatability, long-term stability and

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predictable resistance-temperature characteristics, making them suitable for air-data and control applications that require reliable accuracy. Thermocouples occupy the leading position in high-temperature engine applications such as exhaust gas, turbine inlet, interstage turbine and turbine gas measurement because they operate across a wide temperature range and generate a signal without an external excitation source. Thermistors and semiconductor sensors serve lower- and moderate-temperature applications in cabins, avionics, batteries and electronic equipment where compact size and sensitivity are important.

By application, engine temperature sensors form the most technically demanding and higher-value segment because they must withstand severe vibration, high gas temperatures and rapid thermal transients while providing inputs to engine control and overtemperature protection. TAT and OAT probes represent a smaller-volume but high-qualification segment, particularly on transport and business aircraft, where aerodynamic design, anti-icing and measurement accuracy affect air-data calculations. General aviation EGT, CHT, TIT and oil-temperature probes constitute a broader aftermarket segment with lower unit prices and more standardized installation formats. Fluid, brake, cabin and equipment temperature sensors form a diverse group in which products are frequently customized around specific installation, wiring and control-system requirements.

Downstream Market Opportunities

Commercial aircraft and engine production provide stable original-equipment opportunities, while the installed fleet generates recurring replacement demand through maintenance checks, engine shop visits and component failures. Business and general aviation offer attractive aftermarket opportunities because operators frequently purchase EGT, CHT, TIT, OAT and oil-temperature probes through approved service and distribution channels. Aircraft modernization programs create demand for sensors compatible with upgraded engine monitors, digital displays and air-data computers. Additional opportunities are developing in electric and hybrid-electric aircraft, where batteries, motors and power electronics require dense and electrically isolated temperature monitoring. Suppliers can strengthen customer retention through long-term parts availability, repair and calibration services, installation kits, cross-reference support and rapid AOG delivery. The strongest commercial position is generally achieved when the supplier controls the sensitive element, probe construction, calibration process and approval documentation rather than relying on externally sourced generic sensing components.

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Regional Insights

North America is the principal regional demand and supplier center for Aircraft Temperature Sensors, supported by extensive commercial, business and general aviation manufacturing, a large installed aircraft fleet and a mature MRO and aftermarket distribution system. The region contains diversified aerospace-system groups, specialist engine-sensor producers and general aviation probe manufacturers, allowing participation across original-equipment, retrofit and replacement markets. GAMA's 2025 delivery data also show continued production across piston, turboprop and business-jet categories, sustaining demand for multiple temperature sensors per aircraft. Europe represents another major engineering and production center, with particular strengths in commercial and military engine thermocouples, total-temperature probes, mineral-insulated sensing technology and specialized high-temperature assemblies. This report assesses the two regions as the main high-value markets because of their concentration of aircraft platforms, qualified suppliers and long-established airworthiness systems.

Asia-Pacific offers growing localization opportunities as regional aircraft programs, maintenance capacity and aerospace supply chains develop. China is expanding domestic high-reliability sensor capabilities, although public evidence indicates that much of the local industry remains concentrated in military aviation, aerospace research and broader high-end equipment rather than internationally certified civil-aircraft temperature probes. Japanese and other developed Asian aerospace suppliers participate more strongly through precision materials, electronic components and aircraft-system partnerships. Regional entry opportunities are therefore most credible in domestic aircraft programs, approved localization projects, MRO replacement and sensors for new electric or unmanned aircraft architectures. Certification recognition, platform qualification and sustained batch consistency remain more important than manufacturing cost alone, limiting rapid substitution of established international suppliers in flight-critical applications.

Competitive Landscape Analysis

The Aircraft Temperature Sensors market combines diversified aerospace-system groups with specialist sensing companies and general aviation aftermarket manufacturers. Collins Aerospace and Honeywell Aerospace compete through broad air-

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data, engine-control and aircraft-system integration capabilities. Parker Meggitt, AMETEK Sensors & Fluid Management Systems, Auxitrol Weston, Unison Industries and HarcoSemco focus strongly on engine, fluid and high-temperature sensing assemblies with established platform qualifications. TE Connectivity, Minco Products, Conax Technologies, THERMOCOAX, THERMO EST, Kulite Semiconductor Products and Curtiss-Wright compete through sensing-element technology, harsh-environment packaging, custom engineering and specialized aerospace production. UMA, Davtron, J.P. Instruments, Alcor and Electronics International address the general aviation and approved replacement market with EGT, CHT, TIT, OAT and related probes. represents the developing Chinese supplier base in high-reliability and aircraft pressure-temperature sensing. Competitive advantage depends on platform approval, sensing accuracy, response time, drift stability, environmental endurance, production traceability, documentation and long-term product support. Integrated aerospace groups benefit from direct relationships with aircraft and engine OEMs, while specialist suppliers can differentiate through customization, faster engineering response and support for low-volume legacy platforms.

Report Scope

This report studies the global Aircraft Temperature Sensors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Aircraft Temperature Sensors 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 Aircraft Temperature Sensors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Aircraft Temperature Sensors total production and demand, 2021-2032, (K Units)

Global Aircraft Temperature Sensors total production value, 2021-2032, (USD Million)

Global Aircraft Temperature Sensors production by region & country, production,

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value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Aircraft Temperature Sensors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Aircraft Temperature Sensors domestic production, consumption, key domestic manufacturers and share

Global Aircraft Temperature Sensors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Aircraft Temperature Sensors production by Measurement Object, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Aircraft Temperature Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Aircraft Temperature Sensors 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 Conax Technologies, LLC, AMETEK Sensors & Fluid Management Systems, THERMOCOAX, Custom Control Sensors, LLC, Unison Industries, LLC, Collins Aerospace, Honeywell Aerospace Technologies, Parker Meggitt, HarcoSemco LLC, Auxitrol Weston, 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 Aircraft Temperature Sensors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, by Measurement Object, 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

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2027-2032 as the forecast year.

Global Aircraft Temperature Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Aircraft Temperature Sensors Market, Segmentation by Measurement Object:

Gas Temperature Sensor

Water Temperature Sensor

Fuel Temperature Sensor

Others

Global Aircraft Temperature Sensors Market, Segmentation by Technology:

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Thermocouple Temperature Sensors

Resistance Temperature Detectors

Thermistor Temperature Sensors

Semiconductor Temperature Sensors

Global Aircraft Temperature Sensors Market, Segmentation by Temperature:

Up to 150°C Aircraft Temperature Sensors

151–600°C Aircraft Temperature Sensors

601–1000°C Aircraft Temperature Sensors

Above 1000°C Aircraft Temperature Sensors

Global Aircraft Temperature Sensors Market, Segmentation by Application:

Airliner

General Aviation

Business Aircraft

Others

Companies Profiled:

Conax Technologies, LLC

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AMETEK Sensors & Fluid Management Systems

THERMOCOAX

Custom Control Sensors, LLC

Unison Industries, LLC

Collins Aerospace

Honeywell Aerospace Technologies

Parker Meggitt

HarcoSemco LLC

Auxitrol Weston

TE Connectivity plc

Kulite Semiconductor Products, Inc.

Curtiss-Wright Corporation

THERMO EST

UMA, Inc.

Davtron, Inc.

J.P. Instruments, Inc.

Alcor, Inc.

Electronics International, Inc.

Minco Products, Inc.

Nanjing GOVA Technology Co., Ltd.

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Key Questions Answered:

1. How big is the global Aircraft Temperature Sensors market?
2. What is the demand of the global Aircraft Temperature Sensors market?
3. What is the year over year growth of the global Aircraft Temperature Sensors market?
4. What is the production and production value of the global Aircraft Temperature Sensors market?
5. Who are the key producers in the global Aircraft Temperature Sensors market?
6. What are the growth factors driving the market demand?

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