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Global Data Center Environment Sensors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Data Center Environment Sensors market size is expected to reach $ 901 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

Data Center Environment Sensors are monitoring devices used to measure and track critical environmental conditions within data center facilities, including temperature, humidity, airflow, smoke, water leakage, and particulate levels, to ensure safe and efficient operation of IT equipment. These sensors provide real-time data to data center infrastructure management (DCIM) or building management systems (BMS), enabling early detection of environmental risks, optimization of cooling efficiency, prevention of equipment failure, and compliance with operational standards. In 2025, global Data Center Solid-State Transformer production reached approximately 536 k units with an average global market price of around 1100 USD/unit. The production capacity for Data Center Solid-State Transformer in 2025 was approximately 600 units. The typical gross profit margin for Data Center Solid-State Transformer is between 20% and 40%.

The Data Center Environment Sensors market is driven by the rapid expansion of cloud computing, AI workloads, and hyperscale data centers, which require precise real-time monitoring to ensure operational reliability and energy efficiency. These sensors monitor critical parameters such as temperature, humidity, airflow, smoke, water leakage, and particulate levels, enabling proactive fault detection, thermal management, and optimized cooling performance. The market is supported by growing adoption of intelligent infrastructure management systems, rising concerns over downtime and equipment failure, and increasing focus on energy efficiency and sustainability. North America, Asia-Pacific, and Europe are the key growth regions, while industry trends include wireless sensor networks, AI-driven analytics, integration with DCIM platforms,

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and edge-based monitoring solutions.

This report studies the global Data Center Environment Sensors production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study
Global Data Center Environment Sensors total production and demand, 2021-2032, (K Units)
Global Data Center Environment Sensors total production value, 2021-2032, (USD Million)
Global Data Center Environment Sensors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Data Center Environment Sensors consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Data Center Environment Sensors domestic production, consumption, key domestic manufacturers and share
Global Data Center Environment Sensors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Data Center Environment Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Data Center Environment Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Data Center Environment 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 nVent, TTK Leak Detection, Vertiv, TATSUTA, RLE Technologies, Aqualeak Detection, Sontay, Envirotech Alarms, Vutlan, Dorlen Products, etc.

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

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Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Data Center Environment 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 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 Data Center Environment Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Data Center Environment Sensors Market, Segmentation by Type:

Temperature Sensor

Humidity Sensor

Other

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Global Data Center Environment Sensors Market, Segmentation by Network:

Standalone Sensor

Network-based Sensor

Global Data Center Environment Sensors Market, Segmentation by Grade:

Room-level

Rack-level

Global Data Center Environment Sensors Market, Segmentation by Application:

Cloud Data Centers

AI Data Centers/AI Servers

High-Performance Computing (HPC)

Enterprise Data Centers

Others

Companies Profiled:

nVent

TTK Leak Detection

Vertiv

TATSUTA

RLE Technologies

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Aqualeak Detection

Sontay

Envirotech Alarms

Vutlan

Dorlen Products

Greystone

CMR Electrical

Key Questions Answered:

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

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