

Global Data Center Environment Sensors Market Growth 2026-2032

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Abstracts

The global Data Center Environment Sensors market size is predicted to grow from US\$ 577 million in 2025 to US\$ 875 million in 2032; it is expected to grow at a CAGR of 6.5% from 2026 to 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,

and edge-based monitoring solutions.

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

This Insight Report provides a comprehensive analysis of the global Data Center Environment Sensors 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 Data Center Environment Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Data Center Environment Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Data Center Environment Sensors 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 Data Center Environment Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Data Center Environment Sensors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Temperature Sensor

Humidity Sensor

Other

Segmentation by Network:

Standalone Sensor

Network-based Sensor

Segmentation by Grade:

Room-level

Rack-level

Segmentation by Application:

Cloud Data Centers

AI Data Centers/AI Servers

High-Performance Computing (HPC)

Enterprise Data Centers

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.

nVent

TTK Leak Detection

Vertiv

TATSUTA

RLE Technologies

Aqualeak Detection

Sontay

Envirotech Alarms

Vutlan

Dorlen Products

Greystone

CMR Electrical

Key Questions Addressed in this Report

What is the 10-year outlook for the global Data Center Environment Sensors market?

What factors are driving Data Center Environment Sensors market growth, globally and by region?

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

How do Data Center Environment Sensors market opportunities vary by end market size?

How does Data Center Environment Sensors break out by Type, by Application?

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