

Global Data Center Monitoring Sensor Market Growth 2026-2032

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Abstracts

The global Data Center Monitoring Sensor market size is predicted to grow from US\$ 1575 million in 2025 to US\$ 3088 million in 2032; it is expected to grow at a CAGR of 10.3% from 2026 to 2032.

In 2024, global Data Center Monitoring Sensor production capacity is 25 million units, with production volume reached approximately 18.80 million units, with an average global market price of around US\$ 80 per unit. The market gross margin is mainly 35%-45%.

Data Center Monitoring Sensors refer to various types of sensors deployed in data center environments, cabinets, power supply systems, cooling systems, and critical infrastructure. These sensors collect real-time data on temperature, humidity, airflow, differential pressure, water immersion, smoke, vibration, current, voltage, power, access control, and equipment operating status, transmitting this information back to DCIM, BMS, or cloud platforms. This enables refined management of data center energy efficiency (PUE), environmental safety, equipment health, and operational strategies. They are the core inputs to the data center's "visualization-early warning-automatic optimization" system and are crucial foundational components supporting green energy saving, intelligent operation and maintenance, edge computing, and the stable operation of hyperscale cloud data centers.

The data center monitoring sensor industry chain consists of "upstream chips and sensor components ? modules and communication interfaces ? sensor system manufacturers ? gateways and monitoring platforms ? data center integrators and end users." Upstream components include temperature and humidity chips, MEMS pressure sensors, ultrasonic/thermal anemometer sensors, fiber optic water immersion cables,

smoke detectors, current transformers (CTs), and power detection chips. Midstream manufacturers develop various types of sensors, including temperature and humidity sensors, differential pressure sensors, airflow sensors, water immersion sensors, vibration sensors, and power sensors, and integrate communication modules such as RS485, CAN, Modbus, Ethernet, LoRa, and BLE. Downstream components utilize DCIM/BMS/EMS gateways for data acquisition, edge computing, visualization, and automatic control, ultimately applying to cloud computing IDCs, colocation centers, enterprise data centers, communication rooms, and edge data centers. This industry chain exhibits the typical characteristics of "upstream chip technology-driven ? midstream brand solution integration ? downstream intelligent DCIM implementation."

The Data Center Monitoring Sensor market has significant future growth potential, primarily driven by the explosive growth in computing power demand, hybrid cloud expansion, IDC cluster construction, and strengthened green and energy-saving policies. With the increasing prevalence of AI training clusters, liquid-cooled servers, and high-density cabinets, data centers are placing higher demands on the accuracy and response speed of monitoring key parameters such as temperature, humidity, airflow, differential pressure, and power, driving the rapid penetration of higher-resolution, more-located, and more intelligent sensors. Simultaneously, reducing Power Usage Effectiveness (PUE) has become a rigid KPI for global IDCs, making refined airflow management in cabinets, hot and cold aisle differential pressure monitoring, and air conditioning linkage control new growth areas. The accelerated construction of edge data centers is also expanding the demand for wireless, low-power, and integrated sensors. In terms of security, multimodal sensors for water immersion, smoke, vibration, and intrusion detection are showing an increasing trend in financial, government, and telecommunications operator data centers. On the technology side, the widespread adoption of AI-driven operations and maintenance (AIOps) and digital twins further amplifies the value of sensor data, making "high-precision sensors + gateway + DCIM" a standard configuration for IDCs. Overall, the global data center monitoring sensor market will maintain a steady growth of near 10% CAGR, with high-density environmental sensors, power monitoring sensors, and wireless and smart sensors showing the fastest growth. It will remain in a long-term upward cycle for the next 5-8 years.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the "Data Center Monitoring Sensor Industry Forecast" looks at past sales and reviews total world Data Center Monitoring Sensor sales in 2025, providing a comprehensive analysis by region and market sector

of projected Data Center Monitoring Sensor sales for 2026 through 2032. With Data Center Monitoring Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Data Center Monitoring Sensor industry.

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

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

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

Market Segmentation

Segmentation by Type:

Temperature Sensor

Humidity Sensor

Pressure Sensor

Gas Sensor

Others

Segmentation by Function:

Environmental Sensors

Security Sensors

IT Infrastructure Sensors

Others

Segmentation by Application:

Enterprise Data Center

Colocation Data Center

Hyperscale Data Center

AI Data Center

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.

Schneider Electric

Vertiv

Siemens

ABB

Honeywell

Raritan

AKCP

Sensaphone

Tripp Lite

Ubiquiti Networks

Monnit

Server Technology

Environmental Monitoring Systems (EMS)

Geist

Optris

Data Aire

Packet Power

Rapild

Ningbo KELI

Gova Group

Key Questions Addressed in this Report

What is the 10-year outlook for the global Data Center Monitoring Sensor market?

What factors are driving Data Center Monitoring Sensor market growth, globally and by region?

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

How do Data Center Monitoring Sensor market opportunities vary by end market size?

How does Data Center Monitoring Sensor break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Data Center Monitoring Sensor Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Data Center Monitoring Sensor by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Data Center Monitoring Sensor by Country/Region, 2021, 2025 & 2032
- 2.2 Data Center Monitoring Sensor Segment by Type
 - 2.2.1 Temperature Sensor
 - 2.2.2 Humidity Sensor
 - 2.2.3 Pressure Sensor
 - 2.2.4 Gas Sensor
 - 2.2.5 Others
 - 2.2.6 Data Center Monitoring Sensor Sales by Type
 - 2.2.6.1 Global Data Center Monitoring Sensor Sales Market Share by Type (2021-2026)
 - 2.2.6.2 Global Data Center Monitoring Sensor Revenue and Market Share by Type (2021-2026)
 - 2.2.6.3 Global Data Center Monitoring Sensor Sale Price by Type (2021-2026)
- 2.3 Data Center Monitoring Sensor Segment by Function
 - 2.3.1 Environmental Sensors
 - 2.3.2 Security Sensors
 - 2.3.3 IT Infrastructure Sensors
 - 2.3.4 Others
 - 2.3.5 Data Center Monitoring Sensor Sales by Function

2.3.5.1 Global Data Center Monitoring Sensor Sales Market Share by Function (2021-2026)

2.3.5.2 Global Data Center Monitoring Sensor Revenue and Market Share by Function (2021-2026)

2.3.5.3 Global Data Center Monitoring Sensor Sale Price by Function (2021-2026)

2.4 Data Center Monitoring Sensor Segment by Application

2.4.1 Enterprise Data Center

2.4.2 Colocation Data Center

2.4.3 Hyperscale Data Center

2.4.4 AI Data Center

2.4.5 Data Center Monitoring Sensor Sales by Application

2.4.5.1 Global Data Center Monitoring Sensor Sale Market Share by Application (2021-2026)

2.4.5.2 Global Data Center Monitoring Sensor Revenue and Market Share by Application (2021-2026)

2.4.5.3 Global Data Center Monitoring Sensor Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Data Center Monitoring Sensor Breakdown Data by Company

3.1.1 Global Data Center Monitoring Sensor Annual Sales by Company (2021-2026)

3.1.2 Global Data Center Monitoring Sensor Sales Market Share by Company (2021-2026)

3.2 Global Data Center Monitoring Sensor Annual Revenue by Company (2021-2026)

3.2.1 Global Data Center Monitoring Sensor Revenue by Company (2021-2026)

3.2.2 Global Data Center Monitoring Sensor Revenue Market Share by Company (2021-2026)

3.3 Global Data Center Monitoring Sensor Sale Price by Company

3.4 Key Manufacturers Data Center Monitoring Sensor Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Data Center Monitoring Sensor Product Location Distribution

3.4.2 Players Data Center Monitoring Sensor Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR DATA CENTER MONITORING SENSOR BY

GEOGRAPHIC REGION

4.1 World Historic Data Center Monitoring Sensor Market Size by Geographic Region (2021-2026)

4.1.1 Global Data Center Monitoring Sensor Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Data Center Monitoring Sensor Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Data Center Monitoring Sensor Market Size by Country/Region (2021-2026)

4.2.1 Global Data Center Monitoring Sensor Annual Sales by Country/Region (2021-2026)

4.2.2 Global Data Center Monitoring Sensor Annual Revenue by Country/Region (2021-2026)

4.3 Americas Data Center Monitoring Sensor Sales Growth

4.4 APAC Data Center Monitoring Sensor Sales Growth

4.5 Europe Data Center Monitoring Sensor Sales Growth

4.6 Middle East & Africa Data Center Monitoring Sensor Sales Growth

5 AMERICAS

5.1 Americas Data Center Monitoring Sensor Sales by Country

5.1.1 Americas Data Center Monitoring Sensor Sales by Country (2021-2026)

5.1.2 Americas Data Center Monitoring Sensor Revenue by Country (2021-2026)

5.2 Americas Data Center Monitoring Sensor Sales by Type (2021-2026)

5.3 Americas Data Center Monitoring Sensor Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Data Center Monitoring Sensor Sales by Region

6.1.1 APAC Data Center Monitoring Sensor Sales by Region (2021-2026)

6.1.2 APAC Data Center Monitoring Sensor Revenue by Region (2021-2026)

6.2 APAC Data Center Monitoring Sensor Sales by Type (2021-2026)

6.3 APAC Data Center Monitoring Sensor Sales by Application (2021-2026)

6.4 China

- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Data Center Monitoring Sensor by Country
 - 7.1.1 Europe Data Center Monitoring Sensor Sales by Country (2021-2026)
 - 7.1.2 Europe Data Center Monitoring Sensor Revenue by Country (2021-2026)
- 7.2 Europe Data Center Monitoring Sensor Sales by Type (2021-2026)
- 7.3 Europe Data Center Monitoring Sensor Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Data Center Monitoring Sensor by Country
 - 8.1.1 Middle East & Africa Data Center Monitoring Sensor Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Data Center Monitoring Sensor Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Data Center Monitoring Sensor Sales by Type (2021-2026)
- 8.3 Middle East & Africa Data Center Monitoring Sensor Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Data Center Monitoring Sensor

10.3 Manufacturing Process Analysis of Data Center Monitoring Sensor

10.4 Industry Chain Structure of Data Center Monitoring Sensor

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Data Center Monitoring Sensor Distributors

11.3 Data Center Monitoring Sensor Customer

12 WORLD FORECAST REVIEW FOR DATA CENTER MONITORING SENSOR BY GEOGRAPHIC REGION

12.1 Global Data Center Monitoring Sensor Market Size Forecast by Region

12.1.1 Global Data Center Monitoring Sensor Forecast by Region (2027-2032)

12.1.2 Global Data Center Monitoring Sensor Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Data Center Monitoring Sensor Forecast by Type (2027-2032)

12.7 Global Data Center Monitoring Sensor Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Schneider Electric

13.1.1 Schneider Electric Company Information

13.1.2 Schneider Electric Data Center Monitoring Sensor Product Portfolios and Specifications

13.1.3 Schneider Electric Data Center Monitoring Sensor Sales, Revenue, Price and

Gross Margin (2021-2026)

13.1.4 Schneider Electric Main Business Overview

13.1.5 Schneider Electric Latest Developments

13.2 Vertiv

13.2.1 Vertiv Company Information

13.2.2 Vertiv Data Center Monitoring Sensor Product Portfolios and Specifications

13.2.3 Vertiv Data Center Monitoring Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Vertiv Main Business Overview

13.2.5 Vertiv Latest Developments

13.3 Siemens

13.3.1 Siemens Company Information

13.3.2 Siemens Data Center Monitoring Sensor Product Portfolios and Specifications

13.3.3 Siemens Data Center Monitoring Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Siemens Main Business Overview

13.3.5 Siemens Latest Developments

13.4 ABB

13.4.1 ABB Company Information

13.4.2 ABB Data Center Monitoring Sensor Product Portfolios and Specifications

13.4.3 ABB Data Center Monitoring Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 ABB Main Business Overview

13.4.5 ABB Latest Developments

13.5 Honeywell

13.5.1 Honeywell Company Information

13.5.2 Honeywell Data Center Monitoring Sensor Product Portfolios and Specifications

13.5.3 Honeywell Data Center Monitoring Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Honeywell Main Business Overview

13.5.5 Honeywell Latest Developments

13.6 Raritan

13.6.1 Raritan Company Information

13.6.2 Raritan Data Center Monitoring Sensor Product Portfolios and Specifications

13.6.3 Raritan Data Center Monitoring Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Raritan Main Business Overview

13.6.5 Raritan Latest Developments

13.7 AKCP

- 13.7.1 AKCP Company Information
- 13.7.2 AKCP Data Center Monitoring Sensor Product Portfolios and Specifications
- 13.7.3 AKCP Data Center Monitoring Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.7.4 AKCP Main Business Overview
- 13.7.5 AKCP Latest Developments
- 13.8 Sensaphone
 - 13.8.1 Sensaphone Company Information
 - 13.8.2 Sensaphone Data Center Monitoring Sensor Product Portfolios and Specifications
 - 13.8.3 Sensaphone Data Center Monitoring Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Sensaphone Main Business Overview
 - 13.8.5 Sensaphone Latest Developments
- 13.9 Tripp Lite
 - 13.9.1 Tripp Lite Company Information
 - 13.9.2 Tripp Lite Data Center Monitoring Sensor Product Portfolios and Specifications
 - 13.9.3 Tripp Lite Data Center Monitoring Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Tripp Lite Main Business Overview
 - 13.9.5 Tripp Lite Latest Developments
- 13.10 Ubiquiti Networks
 - 13.10.1 Ubiquiti Networks Company Information
 - 13.10.2 Ubiquiti Networks Data Center Monitoring Sensor Product Portfolios and Specifications
 - 13.10.3 Ubiquiti Networks Data Center Monitoring Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 Ubiquiti Networks Main Business Overview
 - 13.10.5 Ubiquiti Networks Latest Developments
- 13.11 Monnit
 - 13.11.1 Monnit Company Information
 - 13.11.2 Monnit Data Center Monitoring Sensor Product Portfolios and Specifications
 - 13.11.3 Monnit Data Center Monitoring Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Monnit Main Business Overview
 - 13.11.5 Monnit Latest Developments
- 13.12 Server Technology
 - 13.12.1 Server Technology Company Information
 - 13.12.2 Server Technology Data Center Monitoring Sensor Product Portfolios and

Specifications

13.12.3 Server Technology Data Center Monitoring Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Server Technology Main Business Overview

13.12.5 Server Technology Latest Developments

13.13 Environmental Monitoring Systems (EMS)

13.13.1 Environmental Monitoring Systems (EMS) Company Information

13.13.2 Environmental Monitoring Systems (EMS) Data Center Monitoring Sensor Product Portfolios and Specifications

13.13.3 Environmental Monitoring Systems (EMS) Data Center Monitoring Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Environmental Monitoring Systems (EMS) Main Business Overview

13.13.5 Environmental Monitoring Systems (EMS) Latest Developments

13.14 Geist

13.14.1 Geist Company Information

13.14.2 Geist Data Center Monitoring Sensor Product Portfolios and Specifications

13.14.3 Geist Data Center Monitoring Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Geist Main Business Overview

13.14.5 Geist Latest Developments

13.15 Optris

13.15.1 Optris Company Information

13.15.2 Optris Data Center Monitoring Sensor Product Portfolios and Specifications

13.15.3 Optris Data Center Monitoring Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Optris Main Business Overview

13.15.5 Optris Latest Developments

13.16 Data Aire

13.16.1 Data Aire Company Information

13.16.2 Data Aire Data Center Monitoring Sensor Product Portfolios and Specifications

13.16.3 Data Aire Data Center Monitoring Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.16.4 Data Aire Main Business Overview

13.16.5 Data Aire Latest Developments

13.17 Packet Power

13.17.1 Packet Power Company Information

13.17.2 Packet Power Data Center Monitoring Sensor Product Portfolios and Specifications

13.17.3 Packet Power Data Center Monitoring Sensor Sales, Revenue, Price and

Gross Margin (2021-2026)

13.17.4 Packet Power Main Business Overview

13.17.5 Packet Power Latest Developments

13.18 Rapild

13.18.1 Rapild Company Information

13.18.2 Rapild Data Center Monitoring Sensor Product Portfolios and Specifications

13.18.3 Rapild Data Center Monitoring Sensor Sales, Revenue, Price and Gross

Margin (2021-2026)

13.18.4 Rapild Main Business Overview

13.18.5 Rapild Latest Developments

13.19 Ningbo KELI

13.19.1 Ningbo KELI Company Information

13.19.2 Ningbo KELI Data Center Monitoring Sensor Product Portfolios and Specifications

13.19.3 Ningbo KELI Data Center Monitoring Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.19.4 Ningbo KELI Main Business Overview

13.19.5 Ningbo KELI Latest Developments

13.20 Gova Group

13.20.1 Gova Group Company Information

13.20.2 Gova Group Data Center Monitoring Sensor Product Portfolios and Specifications

13.20.3 Gova Group Data Center Monitoring Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.20.4 Gova Group Main Business Overview

13.20.5 Gova Group Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Data Center Monitoring Sensor Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Data Center Monitoring Sensor Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Temperature Sensor

Table 4. Major Players of Humidity Sensor

Table 5. Major Players of Pressure Sensor

Table 6. Major Players of Gas Sensor

Table 7. Major Players of Others

Table 8. Global Data Center Monitoring Sensor Sales by Type (2021-2026) & (K Units)

Table 9. Global Data Center Monitoring Sensor Sales Market Share by Type (2021-2026)

Table 10. Global Data Center Monitoring Sensor Revenue by Type (2021-2026) & (\$ million)

Table 11. Global Data Center Monitoring Sensor Revenue Market Share by Type (2021-2026)

Table 12. Global Data Center Monitoring Sensor Sale Price by Type (2021-2026) & (US\$/Unit)

Table 13. Major Players of Environmental Sensors

Table 14. Major Players of Security Sensors

Table 15. Major Players of IT Infrastructure Sensors

Table 16. Major Players of Others

Table 17. Global Data Center Monitoring Sensor Sales by Function (2021-2026) & (K Units)

Table 18. Global Data Center Monitoring Sensor Sales Market Share by Function (2021-2026)

Table 19. Global Data Center Monitoring Sensor Revenue by Function (2021-2026) & (\$ million)

Table 20. Global Data Center Monitoring Sensor Revenue Market Share by Function (2021-2026)

Table 21. Global Data Center Monitoring Sensor Sale Price by Function (2021-2026) & (US\$/Unit)

Table 22. Global Data Center Monitoring Sensor Sale by Application (2021-2026) & (K Units)

Table 23. Global Data Center Monitoring Sensor Sale Market Share by Application

(2021-2026)

Table 24. Global Data Center Monitoring Sensor Revenue by Application (2021-2026) & (\$ million)

Table 25. Global Data Center Monitoring Sensor Revenue Market Share by Application (2021-2026)

Table 26. Global Data Center Monitoring Sensor Sale Price by Application (2021-2026) & (US\$/Unit)

Table 27. Global Data Center Monitoring Sensor Sales by Company (2021-2026) & (K Units)

Table 28. Global Data Center Monitoring Sensor Sales Market Share by Company (2021-2026)

Table 29. Global Data Center Monitoring Sensor Revenue by Company (2021-2026) & (\$ millions)

Table 30. Global Data Center Monitoring Sensor Revenue Market Share by Company (2021-2026)

Table 31. Global Data Center Monitoring Sensor Sale Price by Company (2021-2026) & (US\$/Unit)

Table 32. Key Manufacturers Data Center Monitoring Sensor Producing Area Distribution and Sales Area

Table 33. Players Data Center Monitoring Sensor Products Offered

Table 34. Data Center Monitoring Sensor Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 35. New Products and Potential Entrants

Table 36. Market M&A Activity & Strategy

Table 37. Global Data Center Monitoring Sensor Sales by Geographic Region (2021-2026) & (K Units)

Table 38. Global Data Center Monitoring Sensor Sales Market Share Geographic Region (2021-2026)

Table 39. Global Data Center Monitoring Sensor Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 40. Global Data Center Monitoring Sensor Revenue Market Share by Geographic Region (2021-2026)

Table 41. Global Data Center Monitoring Sensor Sales by Country/Region (2021-2026) & (K Units)

Table 42. Global Data Center Monitoring Sensor Sales Market Share by Country/Region (2021-2026)

Table 43. Global Data Center Monitoring Sensor Revenue by Country/Region (2021-2026) & (\$ millions)

Table 44. Global Data Center Monitoring Sensor Revenue Market Share by

Country/Region (2021-2026)

Table 45. Americas Data Center Monitoring Sensor Sales by Country (2021-2026) & (K Units)

Table 46. Americas Data Center Monitoring Sensor Sales Market Share by Country (2021-2026)

Table 47. Americas Data Center Monitoring Sensor Revenue by Country (2021-2026) & (\$ millions)

Table 48. Americas Data Center Monitoring Sensor Sales by Type (2021-2026) & (K Units)

Table 49. Americas Data Center Monitoring Sensor Sales by Application (2021-2026) & (K Units)

Table 50. APAC Data Center Monitoring Sensor Sales by Region (2021-2026) & (K Units)

Table 51. APAC Data Center Monitoring Sensor Sales Market Share by Region (2021-2026)

Table 52. APAC Data Center Monitoring Sensor Revenue by Region (2021-2026) & (\$ millions)

Table 53. APAC Data Center Monitoring Sensor Sales by Type (2021-2026) & (K Units)

Table 54. APAC Data Center Monitoring Sensor Sales by Application (2021-2026) & (K Units)

Table 55. Europe Data Center Monitoring Sensor Sales by Country (2021-2026) & (K Units)

Table 56. Europe Data Center Monitoring Sensor Revenue by Country (2021-2026) & (\$ millions)

Table 57. Europe Data Center Monitoring Sensor Sales by Type (2021-2026) & (K Units)

Table 58. Europe Data Center Monitoring Sensor Sales by Application (2021-2026) & (K Units)

Table 59. Middle East & Africa Data Center Monitoring Sensor Sales by Country (2021-2026) & (K Units)

Table 60. Middle East & Africa Data Center Monitoring Sensor Revenue Market Share by Country (2021-2026)

Table 61. Middle East & Africa Data Center Monitoring Sensor Sales by Type (2021-2026) & (K Units)

Table 62. Middle East & Africa Data Center Monitoring Sensor Sales by Application (2021-2026) & (K Units)

Table 63. Key Market Drivers & Growth Opportunities of Data Center Monitoring Sensor

Table 64. Key Market Challenges & Risks of Data Center Monitoring Sensor

Table 65. Key Industry Trends of Data Center Monitoring Sensor

Table 66. Data Center Monitoring Sensor Raw Material
Table 67. Key Suppliers of Raw Materials
Table 68. Data Center Monitoring Sensor Distributors List
Table 69. Data Center Monitoring Sensor Customer List
Table 70. Global Data Center Monitoring Sensor Sales Forecast by Region (2027-2032) & (K Units)
Table 71. Global Data Center Monitoring Sensor Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 72. Americas Data Center Monitoring Sensor Sales Forecast by Country (2027-2032) & (K Units)
Table 73. Americas Data Center Monitoring Sensor Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 74. APAC Data Center Monitoring Sensor Sales Forecast by Region (2027-2032) & (K Units)
Table 75. APAC Data Center Monitoring Sensor Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 76. Europe Data Center Monitoring Sensor Sales Forecast by Country (2027-2032) & (K Units)
Table 77. Europe Data Center Monitoring Sensor Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 78. Middle East & Africa Data Center Monitoring Sensor Sales Forecast by Country (2027-2032) & (K Units)
Table 79. Middle East & Africa Data Center Monitoring Sensor Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 80. Global Data Center Monitoring Sensor Sales Forecast by Type (2027-2032) & (K Units)
Table 81. Global Data Center Monitoring Sensor Revenue Forecast by Type (2027-2032) & (\$ millions)
Table 82. Global Data Center Monitoring Sensor Sales Forecast by Application (2027-2032) & (K Units)
Table 83. Global Data Center Monitoring Sensor Revenue Forecast by Application (2027-2032) & (\$ millions)
Table 84. Schneider Electric Basic Information, Data Center Monitoring Sensor Manufacturing Base, Sales Area and Its Competitors
Table 85. Schneider Electric Data Center Monitoring Sensor Product Portfolios and Specifications
Table 86. Schneider Electric Data Center Monitoring Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 87. Schneider Electric Main Business

Table 88. Schneider Electric Latest Developments

Table 89. Vertiv Basic Information, Data Center Monitoring Sensor Manufacturing Base, Sales Area and Its Competitors

Table 90. Vertiv Data Center Monitoring Sensor Product Portfolios and Specifications

Table 91. Vertiv Data Center Monitoring Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 92. Vertiv Main Business

Table 93. Vertiv Latest Developments

Table 94. Siemens Basic Information, Data Center Monitoring Sensor Manufacturing Base, Sales Area and Its Competitors

Table 95. Siemens Data Center Monitoring Sensor Product Portfolios and Specifications

Table 96. Siemens Data Center Monitoring Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 97. Siemens Main Business

Table 98. Siemens Latest Developments

Table 99. ABB Basic Information, Data Center Monitoring Sensor Manufacturing Base, Sales Area and Its Competitors

Table 100. ABB Data Center Monitoring Sensor Product Portfolios and Specifications

Table 101. ABB Data Center Monitoring Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 102. ABB Main Business

Table 103. ABB Latest Developments

Table 104. Honeywell Basic Information, Data Center Monitoring Sensor Manufacturing Base, Sales Area and Its Competitors

Table 105. Honeywell Data Center Monitoring Sensor Product Portfolios and Specifications

Table 106. Honeywell Data Center Monitoring Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 107. Honeywell Main Business

Table 108. Honeywell Latest Developments

Table 109. Raritan Basic Information, Data Center Monitoring Sensor Manufacturing Base, Sales Area and Its Competitors

Table 110. Raritan Data Center Monitoring Sensor Product Portfolios and Specifications

Table 111. Raritan Data Center Monitoring Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 112. Raritan Main Business

Table 113. Raritan Latest Developments

Table 114. AKCP Basic Information, Data Center Monitoring Sensor Manufacturing Base, Sales Area and Its Competitors

Table 115. AKCP Data Center Monitoring Sensor Product Portfolios and Specifications

Table 116. AKCP Data Center Monitoring Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 117. AKCP Main Business

Table 118. AKCP Latest Developments

Table 119. Sensaphone Basic Information, Data Center Monitoring Sensor Manufacturing Base, Sales Area and Its Competitors

Table 120. Sensaphone Data Center Monitoring Sensor Product Portfolios and Specifications

Table 121. Sensaphone Data Center Monitoring Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 122. Sensaphone Main Business

Table 123. Sensaphone Latest Developments

Table 124. Tripp Lite Basic Information, Data Center Monitoring Sensor Manufacturing Base, Sales Area and Its Competitors

Table 125. Tripp Lite Data Center Monitoring Sensor Product Portfolios and Specifications

Table 126. Tripp Lite Data Center Monitoring Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 127. Tripp Lite Main Business

Table 128. Tripp Lite Latest Developments

Table 129. Ubiquiti Networks Basic Information, Data Center Monitoring Sensor Manufacturing Base, Sales Area and Its Competitors

Table 130. Ubiquiti Networks Data Center Monitoring Sensor Product Portfolios and Specifications

Table 131. Ubiquiti Networks Data Center Monitoring Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 132. Ubiquiti Networks Main Business

Table 133. Ubiquiti Networks Latest Developments

Table 134. Monnit Basic Information, Data Center Monitoring Sensor Manufacturing Base, Sales Area and Its Competitors

Table 135. Monnit Data Center Monitoring Sensor Product Portfolios and Specifications

Table 136. Monnit Data Center Monitoring Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 137. Monnit Main Business

Table 138. Monnit Latest Developments

Table 139. Server Technology Basic Information, Data Center Monitoring Sensor Manufacturing Base, Sales Area and Its Competitors

Table 140. Server Technology Data Center Monitoring Sensor Product Portfolios and

Specifications

Table 141. Server Technology Data Center Monitoring Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 142. Server Technology Main Business

Table 143. Server Technology Latest Developments

Table 144. Environmental Monitoring Systems (EMS) Basic Information, Data Center Monitoring Sensor Manufacturing Base, Sales Area and Its Competitors

Table 145. Environmental Monitoring Systems (EMS) Data Center Monitoring Sensor Product Portfolios and Specifications

Table 146. Environmental Monitoring Systems (EMS) Data Center Monitoring Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 147. Environmental Monitoring Systems (EMS) Main Business

Table 148. Environmental Monitoring Systems (EMS) Latest Developments

Table 149. Geist Basic Information, Data Center Monitoring Sensor Manufacturing Base, Sales Area and Its Competitors

Table 150. Geist Data Center Monitoring Sensor Product Portfolios and Specifications

Table 151. Geist Data Center Monitoring Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 152. Geist Main Business

Table 153. Geist Latest Developments

Table 154. Optris Basic Information, Data Center Monitoring Sensor Manufacturing Base, Sales Area and Its Competitors

Table 155. Optris Data Center Monitoring Sensor Product Portfolios and Specifications

Table 156. Optris Data Center Monitoring Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 157. Optris Main Business

Table 158. Optris Latest Developments

Table 159. Data Aire Basic Information, Data Center Monitoring Sensor Manufacturing Base, Sales Area and Its Competitors

Table 160. Data Aire Data Center Monitoring Sensor Product Portfolios and Specifications

Table 161. Data Aire Data Center Monitoring Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 162. Data Aire Main Business

Table 163. Data Aire Latest Developments

Table 164. Packet Power Basic Information, Data Center Monitoring Sensor Manufacturing Base, Sales Area and Its Competitors

Table 165. Packet Power Data Center Monitoring Sensor Product Portfolios and Specifications

Table 166. Packet Power Data Center Monitoring Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 167. Packet Power Main Business

Table 168. Packet Power Latest Developments

Table 169. Rapild Basic Information, Data Center Monitoring Sensor Manufacturing Base, Sales Area and Its Competitors

Table 170. Rapild Data Center Monitoring Sensor Product Portfolios and Specifications

Table 171. Rapild Data Center Monitoring Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 172. Rapild Main Business

Table 173. Rapild Latest Developments

Table 174. Ningbo KELI Basic Information, Data Center Monitoring Sensor Manufacturing Base, Sales Area and Its Competitors

Table 175. Ningbo KELI Data Center Monitoring Sensor Product Portfolios and Specifications

Table 176. Ningbo KELI Data Center Monitoring Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 177. Ningbo KELI Main Business

Table 178. Ningbo KELI Latest Developments

Table 179. Gova Group Basic Information, Data Center Monitoring Sensor Manufacturing Base, Sales Area and Its Competitors

Table 180. Gova Group Data Center Monitoring Sensor Product Portfolios and Specifications

Table 181. Gova Group Data Center Monitoring Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 182. Gova Group Main Business

Table 183. Gova Group Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Data Center Monitoring Sensor
- Figure 2. Data Center Monitoring Sensor Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Data Center Monitoring Sensor Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Data Center Monitoring Sensor Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Data Center Monitoring Sensor Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Data Center Monitoring Sensor Sales Market Share by Country/Region (2025)
- Figure 10. Data Center Monitoring Sensor Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Temperature Sensor
- Figure 12. Product Picture of Humidity Sensor
- Figure 13. Product Picture of Pressure Sensor
- Figure 14. Product Picture of Gas Sensor
- Figure 15. Product Picture of Others
- Figure 16. Global Data Center Monitoring Sensor Sales Market Share by Type in 2026
- Figure 17. Global Data Center Monitoring Sensor Revenue Market Share by Type (2021-2026)
- Figure 18. Product Picture of Environmental Sensors
- Figure 19. Product Picture of Security Sensors
- Figure 20. Product Picture of IT Infrastructure Sensors
- Figure 21. Product Picture of Others
- Figure 22. Global Data Center Monitoring Sensor Sales Market Share by Function in 2026
- Figure 23. Global Data Center Monitoring Sensor Revenue Market Share by Function (2021-2026)
- Figure 24. Data Center Monitoring Sensor Consumed in Enterprise Data Center
- Figure 25. Global Data Center Monitoring Sensor Market: Enterprise Data Center (2021-2026) & (K Units)
- Figure 26. Data Center Monitoring Sensor Consumed in Colocation Data Center
- Figure 27. Global Data Center Monitoring Sensor Market: Colocation Data Center

(2021-2026) & (K Units)

Figure 28. Data Center Monitoring Sensor Consumed in Hyperscale Data Center

Figure 29. Global Data Center Monitoring Sensor Market: Hyperscale Data Center
(2021-2026) & (K Units)

Figure 30. Data Center Monitoring Sensor Consumed in AI Data Center

Figure 31. Global Data Center Monitoring Sensor Market: AI Data Center (2021-2026) &
(K Units)

Figure 32. Global Data Center Monitoring Sensor Sale Market Share by Application
(2025)

Figure 33. Global Data Center Monitoring Sensor Revenue Market Share by Application
in 2026

Figure 34. Data Center Monitoring Sensor Sales by Company in 2026 (K Units)

Figure 35. Global Data Center Monitoring Sensor Sales Market Share by Company in
2026

Figure 36. Data Center Monitoring Sensor Revenue by Company in 2026 (\$ millions)

Figure 37. Global Data Center Monitoring Sensor Revenue Market Share by Company
in 2026

Figure 38. Global Data Center Monitoring Sensor Sales Market Share by Geographic
Region (2021-2026)

Figure 39. Global Data Center Monitoring Sensor Revenue Market Share by
Geographic Region in 2026

Figure 40. Americas Data Center Monitoring Sensor Sales 2021-2026 (K Units)

Figure 41. Americas Data Center Monitoring Sensor Revenue 2021-2026 (\$ millions)

Figure 42. APAC Data Center Monitoring Sensor Sales 2021-2026 (K Units)

Figure 43. APAC Data Center Monitoring Sensor Revenue 2021-2026 (\$ millions)

Figure 44. Europe Data Center Monitoring Sensor Sales 2021-2026 (K Units)

Figure 45. Europe Data Center Monitoring Sensor Revenue 2021-2026 (\$ millions)

Figure 46. Middle East & Africa Data Center Monitoring Sensor Sales 2021-2026 (K
Units)

Figure 47. Middle East & Africa Data Center Monitoring Sensor Revenue 2021-2026 (\$
millions)

Figure 48. Americas Data Center Monitoring Sensor Sales Market Share by Country in
2026

Figure 49. Americas Data Center Monitoring Sensor Revenue Market Share by Country
(2021-2026)

Figure 50. Americas Data Center Monitoring Sensor Sales Market Share by Type
(2021-2026)

Figure 51. Americas Data Center Monitoring Sensor Sales Market Share by Application
(2021-2026)

Figure 52. United States Data Center Monitoring Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 53. Canada Data Center Monitoring Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 54. Mexico Data Center Monitoring Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 55. Brazil Data Center Monitoring Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 56. APAC Data Center Monitoring Sensor Sales Market Share by Region in 2026

Figure 57. APAC Data Center Monitoring Sensor Revenue Market Share by Region (2021-2026)

Figure 58. APAC Data Center Monitoring Sensor Sales Market Share by Type (2021-2026)

Figure 59. APAC Data Center Monitoring Sensor Sales Market Share by Application (2021-2026)

Figure 60. China Data Center Monitoring Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 61. Japan Data Center Monitoring Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 62. South Korea Data Center Monitoring Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 63. Southeast Asia Data Center Monitoring Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 64. India Data Center Monitoring Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 65. Australia Data Center Monitoring Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 66. China Taiwan Data Center Monitoring Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 67. Europe Data Center Monitoring Sensor Sales Market Share by Country in 2026

Figure 68. Europe Data Center Monitoring Sensor Revenue Market Share by Country (2021-2026)

Figure 69. Europe Data Center Monitoring Sensor Sales Market Share by Type (2021-2026)

Figure 70. Europe Data Center Monitoring Sensor Sales Market Share by Application (2021-2026)

Figure 71. Germany Data Center Monitoring Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 72. France Data Center Monitoring Sensor Revenue Growth 2021-2026 (\$

millions)

Figure 73. UK Data Center Monitoring Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 74. Italy Data Center Monitoring Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 75. Russia Data Center Monitoring Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 76. Middle East & Africa Data Center Monitoring Sensor Sales Market Share by Country (2021-2026)

Figure 77. Middle East & Africa Data Center Monitoring Sensor Sales Market Share by Type (2021-2026)

Figure 78. Middle East & Africa Data Center Monitoring Sensor Sales Market Share by Application (2021-2026)

Figure 79. Egypt Data Center Monitoring Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 80. South Africa Data Center Monitoring Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 81. Israel Data Center Monitoring Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 82. Turkey Data Center Monitoring Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 83. GCC Countries Data Center Monitoring Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 84. Manufacturing Cost Structure Analysis of Data Center Monitoring Sensor in 2026

Figure 85. Manufacturing Process Analysis of Data Center Monitoring Sensor

Figure 86. Industry Chain Structure of Data Center Monitoring Sensor

Figure 87. Channels of Distribution

Figure 88. Global Data Center Monitoring Sensor Sales Market Forecast by Region (2027-2032)

Figure 89. Global Data Center Monitoring Sensor Revenue Market Share Forecast by Region (2027-2032)

Figure 90. Global Data Center Monitoring Sensor Sales Market Share Forecast by Type (2027-2032)

Figure 91. Global Data Center Monitoring Sensor Revenue Market Share Forecast by Type (2027-2032)

Figure 92. Global Data Center Monitoring Sensor Sales Market Share Forecast by Application (2027-2032)

Figure 93. Global Data Center Monitoring Sensor Revenue Market Share Forecast by Application (2027-2032)

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