

Global AI Data Center Leak Detection System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI Data Center Leak Detection System market size is expected to reach \$ 918 million by 2032, rising at a market growth of 14.8% CAGR during the forecast period (2026-2032).

AI data center leak detection system is an environmental safety solution designed to continuously monitor data halls, equipment rooms and cooling infrastructure for unintended liquid releases. It detects water, coolant, glycol mixtures, condensate and other conductive fluids and generates location-, zone- or equipment-level alarms. A typical system consists of spot leak sensors, sensing cables, sensing tapes, zone controllers, distance-location controllers, alarm modules, communication gateways and monitoring software.

Upstream suppliers provide conductive sensing materials, polymer jackets, electrodes, cables, connectors, relays, control chips, power modules, communication modules, alarms, displays and industrial enclosures. Material corrosion resistance, contamination tolerance, response speed and reusability directly affect detection sensitivity, false-alarm rates and service life. As liquid cooling expands, sensing components must also detect fluids with different conductivity characteristics, including water and glycol-based coolants.

The midstream segment includes leak detection equipment manufacturers, environmental monitoring companies, data center infrastructure management software providers, building automation suppliers and cooling-system manufacturers. These companies undertake sensor engineering, sensing-cable production, leak-location algorithm development, controller manufacturing, communication integration and system commissioning. Leak detection, flow monitoring and alarm control are

increasingly being integrated directly into coolant distribution units and other liquid-cooling equipment rather than being installed only as separate monitoring systems.

Downstream customers include hyperscale data centers, colocation facilities, enterprise data centers, edge facilities, telecommunications rooms and high-performance computing centers. Systems may be procured by data center owners, engineering contractors, cooling-equipment suppliers or facility-management service providers. Aftermarket activities include installation, commissioning, cable cleaning, functional testing, controller upgrades, fault diagnosis and periodic calibration.

The market has favorable long-term growth prospects. Conventional air-cooled data centers already face leakage risks from chilled-water piping, cooling-unit condensate, humidification systems and fire-protection infrastructure. The deployment of high-power servers and artificial intelligence computing equipment is accelerating the use of direct-to-chip cooling, rear-door heat exchangers and coolant distribution units. As liquid circuits extend closer to racks and electronic components, even a small leak can cause equipment damage, operational disruption and significant repair costs, increasing demand for rapid detection, precise location and automated response.

Future growth will be driven by three major factors. New high-density facilities are expected to incorporate leak detection as a standard safety function within liquid-cooling infrastructure. Existing air-cooled facilities adopting liquid or hybrid cooling will require additional sensing cables, spot sensors and controllers. In addition, products will evolve from basic liquid-presence alarms toward intelligent systems with distance location, self-diagnostics, event analysis, predictive maintenance and automatic valve-isolation functions.

Market development may be constrained by inconsistent system standards, variations among coolant properties, contamination of sensing cables, improper installation and false alarms. Competition will therefore increasingly focus on detection accuracy, location precision, reliability, communication compatibility and integration with cooling equipment and facility-management platforms. Suppliers with broad product portfolios, liquid-cooling expertise and global data center service capabilities are likely to gain a stronger competitive position.

Report Scope

This report studies the global AI Data Center Leak Detection System demand, key

companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI Data Center Leak Detection System, 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 AI Data Center Leak Detection System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI Data Center Leak Detection System total market, 2021-2032, (USD Million)
Global AI Data Center Leak Detection System total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: AI Data Center Leak Detection System total market, key domestic companies, and share, (USD Million)

Global AI Data Center Leak Detection System revenue by player, revenue and market share 2021-2026, (USD Million)

Global AI Data Center Leak Detection System total market by Type, CAGR, 2021-2032, (USD Million)

Global AI Data Center Leak Detection System total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global AI Data Center Leak Detection System market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include nVent RAYCHEM, TTK SAS, RLE Technologies, Schneider Electric SE, AKCP, Aqualeak Detection Ltd., Andel Ltd., CMR Electrical Ltd., Jakarta Ltd., HW group s.r.o., 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 AI Data Center Leak Detection System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 AI Data Center Leak Detection System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI Data Center Leak Detection System Market, Segmentation by Type:

Conductive Resistance-Based Detection

Optical Detection

Capacitive Detection

Pressure/Flow-Balance Detection

Acoustic Detection

Global AI Data Center Leak Detection System Market, Segmentation by Liquid Type:

Water and Water-Glycol Coolants

Dielectric Coolants

Oil and Hydrocarbon Fluids

Acid, Alkali and Chemical Fluids

Multi-Liquid Detection

Global AI Data Center Leak Detection System Market, Segmentation by Detection Location:

Server and Cold-Plate Level

In-Rack and CDU Level

Row and Distribution-Piping Level

Raised-Floor and Data-Hall Level

Plant-Room and Facility Level

Global AI Data Center Leak Detection System Market, Segmentation by Application:

Direct-to-Chip Liquid Cooling

Immersion Cooling

Coolant Distribution Units and Manifolds

Chilled-Water and Facility Piping

HPC and AI Server Racks

Others

Companies Profiled:

nVent RAYCHEM

TTK SAS

RLE Technologies

Schneider Electric SE

AKCP

Aqualeak Detection Ltd.

Andel Ltd.

CMR Electrical Ltd.

Jacarta Ltd.

HW group s.r.o.

Sensaphone

Dorlen Products, Inc.

Shenzhen Xiangwei Measurement & Control Technology Co., Ltd.

Shenzhen Yajiang Measurement & Control Technology Co., Ltd.

Shenzhen Gaodi Automatic Control Equipment Co., Ltd.

Shenzhen Best Control Technology Co., Ltd.

Key Questions Answered

1. How big is the global AI Data Center Leak Detection System market?
2. What is the demand of the global AI Data Center Leak Detection System market?
3. What is the year over year growth of the global AI Data Center Leak Detection System market?
4. What is the total value of the global AI Data Center Leak Detection System market?

5. Who are the Major Players in the global AI Data Center Leak Detection System market?
6. What are the growth factors driving the market demand?

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