

Global Refrigerant Gas Leakage Monitoring Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Refrigerant Gas Leakage Monitoring Sensor market size is expected to reach \$ 239 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032).

In 2025, global Refrigerant Gas Leakage Monitoring Sensor production reached approximately 2.63 million units, with an average global market price of around US\$ 50 per unit.

A refrigerant gas leakage monitoring sensor is a gas-sensing device/module used in HVAC&R equipment to continuously detect leaking refrigerants?especially flammable/low-flammability A2L/A3 refrigerants such as R32, R454-family, and R290?and trigger alarms or safety actions (ventilation, load shutdown, warnings) once thresholds are reached. With low-GWP refrigerant adoption accelerating, safety standards such as UL 60335-2-40 emphasize robustness, reliability, drift/deviation handling, and installation/testing requirements, driving a shift from bare sensing elements toward system-level refrigerant detection modules (RDS) with compensation, self-check, and relay/communication interfaces.

Upstream includes sensing elements and critical materials/devices (NDIR IR source/detector and optical cell; thermal-conductivity elements; MOX sensing materials), industrial MCUs/PMICs, relays/drivers, connectors/harnesses, sealed housings for IP protection, and calibration/test tooling. Midstream suppliers integrate compensation (T/H), drift handling/self-test, alarm logic, interfaces (relay, UART/I²C/RS485, etc.), and factory calibration for target refrigerants?often shipping complete modules/systems (RDS). Downstream HVAC&R OEMs and integrators connect sensors with control boards, blowers, valves, and safety logic across air conditioners, heat pumps, refrigeration cabinets/rooms, commercial refrigeration, and cold-chain equipment. Representative midstream examples: Sensirion (thermal-conductivity RDS), Amphenol SGX (NDIR for R32/R290), Figaro (A2L modules).

The annual production capacity of a single-line Refrigerant Gas Leakage Monitoring Sensor is approximately 30k units, with a gross profit margin of approximately 15%-25%.

The market is being reshaped by low-GWP refrigerant transitions, where safety compliance becomes a hard requirement rather than a feature?pushing products from bare sensing elements toward system-level modules with compensation, self-check, drift management, and safety outputs aligned with lifecycle reliability expectations. Selective and environmentally robust approaches (e.g., NDIR and engineered thermal-conductivity systems) tend to gain traction, while modular, reusable interfaces (relay + digital communication) help OEMs reuse platforms and shorten validation cycles. Key drivers include standards/regulations, broader A2L adoption in AC/heat pumps and refrigeration, and OEM preference for diagnosable, serviceable, replaceable modules; headwinds include calibration complexity across refrigerants and applications, harsh field conditions (condensation/oil mist/dust) that can impact false alarms and lifetime, and cost pressure plus supply consistency constraints during scale-up. Overall, suppliers that combine compliance-driven system design, robust calibration/drift control, and integration/validation support are best positioned in the ongoing refrigerant upgrade cycle.

This report studies the global Refrigerant Gas Leakage Monitoring Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Refrigerant Gas Leakage Monitoring Sensor 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 Refrigerant Gas Leakage Monitoring Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Refrigerant Gas Leakage Monitoring Sensor total production and demand, 2021-2032, (K Units)

Global Refrigerant Gas Leakage Monitoring Sensor total production value, 2021-2032, (USD Million)

Global Refrigerant Gas Leakage Monitoring Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Refrigerant Gas Leakage Monitoring Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Refrigerant Gas Leakage Monitoring Sensor domestic production, consumption, key domestic manufacturers and share

Global Refrigerant Gas Leakage Monitoring Sensor production by manufacturer,

production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Refrigerant Gas Leakage Monitoring Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Refrigerant Gas Leakage Monitoring Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Refrigerant Gas Leakage Monitoring Sensor 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 Aquilar Ltd, Carel, Honeywell, Critical Environment, Flir, MSA Safety, RC Systems, Sensirion, Tek Troniks, Figaro Engineering, 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 Refrigerant Gas Leakage Monitoring Sensor 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 Refrigerant Gas Leakage Monitoring Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Refrigerant Gas Leakage Monitoring Sensor Market, Segmentation by Type:

Flush Mounted Type

Fixed Type

Hand Held Type

Global Refrigerant Gas Leakage Monitoring Sensor Market, Segmentation by Detection Principle:

Infrared

Thermal Conductivity

Semiconductor

Global Refrigerant Gas Leakage Monitoring Sensor Market, Segmentation by Protection Rating:

Waterproof

Dustproof

Others

Global Refrigerant Gas Leakage Monitoring Sensor Market, Segmentation by Application:

Refrigerator

Industrial Freezer

Air Conditioner

Others

Companies Profiled:

Aquilar Ltd

Carel

Honeywell

Critical Environment

Flir

MSA Safety

RC Systems

Sensirion

Tek Troniks

Figaro Engineering

NevadaNano

Sensata

Amphenol

Danfoss

Senva

Cubic Sensor

Unitense

Key Questions Answered:

1. How big is the global Refrigerant Gas Leakage Monitoring Sensor market?
2. What is the demand of the global Refrigerant Gas Leakage Monitoring Sensor market?
3. What is the year over year growth of the global Refrigerant Gas Leakage Monitoring Sensor market?
4. What is the production and production value of the global Refrigerant Gas Leakage Monitoring Sensor market?
5. Who are the key producers in the global Refrigerant Gas Leakage Monitoring Sensor market?
6. What are the growth factors driving the market demand?

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