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Global R290 Sensor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global R290 Sensor market size was valued at US$ 25.72 million in 2025 and is forecast to a readjusted size of US$ 69.02 million by 2032 with a CAGR of 15.0% during review period.

R290 Sensor is a type of gas sensor designed to detect the concentration or leakage of R290 refrigerant in refrigeration systems. R290, also known as propane, has the chemical formula C?H? and is classified as a highly flammable natural refrigerant. It is widely used in heat pumps, air conditioners, commercial refrigeration equipment, refrigerated display cabinets, refrigerators, and industrial refrigeration systems. R290 sensors typically use infrared, photoacoustic, semiconductor, or other gas-sensing technologies to continuously monitor R290 concentrations in the surrounding air. When the detected concentration reaches a predefined safety threshold, the sensor sends an alarm or control signal to the equipment control system, helping reduce the risk of fire or explosion caused by refrigerant leakage. In this study, R290 Sensors mainly include leak detection sensors, sensor modules, and intelligent detection modules used in refrigeration and HVAC equipment, excluding general-purpose propane sensors used only for LPG alarms, fuel gas monitoring, or industrial process measurement.R290 Sensors are generally priced at approximately USD 20–80 per unit for mainstream OEM applications, although prices vary significantly by sensing technology, accuracy, certification, output interface, and order volume. Basic semiconductor/MOS sensors may cost around USD 5–20/unit, while NDIR and photoacoustic R290 sensor modules typically range from USD 25–80/unit. High-performance industrial or intelligent leak-detection modules can reach USD 80–200 or more per unit. For reference, Senseair Sunlight R290 is currently listed at about USD 28.7/unit at 250-piece volume, while Amphenol SGX INIR7-R290 is around USD 55/unit at 100 pieces; specialized industrial NDIR products can exceed USD 190/unit. The upstream industry chain mainly includes

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infrared emitters, MEMS components, semiconductor sensing materials, optical filters, microcontrollers, ASICs, housings, connectors, and calibration gases. Midstream manufacturers integrate sensing elements, signal-processing circuits, compensation algorithms, communication interfaces, and safety functions into calibrated sensor modules. Downstream customers mainly include heat pump, air-conditioning, commercial refrigeration, refrigerator/freezer, cold-chain, industrial refrigeration, and transportation refrigeration equipment manufacturers.

Report Scope

This report is a detailed and comprehensive analysis for global R290 Sensor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global R290 Sensor market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global R290 Sensor market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global R290 Sensor market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global R290 Sensor market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

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To determine the size of the total market opportunity of global and key countries

To assess the growth potential for R290 Sensor

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global R290 Sensor market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Sensirion AG, Danfoss, NevadaNano, Amphenol, TE Connectivity, AKM, NISSHA FIS, Cubic Sensor and Instrument, Zhengzhou Winsen Electronics, smartGAS Mikrosensorik, etc.

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

R290 Sensor market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

Market segment by Type

DIR Infrared Sensor

Photoacoustic Sensor

Semiconductor/MOS Sensor

Other

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Market segment by Installation

Embedded Type

Duct-mounted Type.

Remote Type

Market segment by Detection Range

Low Concentration R290 Sensors

LEL-range R290 Sensors

Wide-range R290 Sensors

Market segment by Application

Heat Pumps and Air Conditioning

Commercial Refrigeration

Industrial Refrigeration and Cold Chain

Refrigerators and Freezers

Transport Refrigeration and Automotive HVAC

Others

Major players covered

Sensirion AG

Danfoss

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NevadaNano

Amphenol

TE Connectivity

AKM

NISSHA FIS

Cubic Sensor and Instrument

Zhengzhou Winsen Electronics

smartGAS Mikrosensorik

Figaro Engineering

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe R290 Sensor product scope, market overview, market estimation caveats and base year.

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Chapter 2, to profile the top manufacturers of R290 Sensor, with price, sales quantity, revenue, and global market share of R290 Sensor from 2021 to 2026.

Chapter 3, the R290 Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the R290 Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and R290 Sensor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of R290 Sensor.

Chapter 14 and 15, to describe R290 Sensor sales channel, distributors, customers, research findings and conclusion.

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