



Global Silicon-based NDIR Sensors Market Outlook and Growth Opportunities 2026

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Electronics & Semiconductor	2026-07-04	215	PDF
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Description

The global Silicon-based NDIR Sensors market was valued at US\$ million in 2026 and is projected to reach US\$ million by 2032, implying a compound annual growth rate (CAGR) of % over 2026-2032.

The North America market for Silicon-based NDIR Sensors is projected to increase from US\$ million in 2026 to US\$ million by 2032, at a CAGR of % over 2026-2032.

The Europe market for Silicon-based NDIR Sensors is projected to increase from US\$ million in 2026 to US\$ million by 2032, at a CAGR of % over 2026-2032.

The Asia Pacific market for Silicon-based NDIR Sensors is projected to increase from US\$ million in 2026 to US\$ million by 2032, at a CAGR of % over 2026-2032.

In China, the Silicon-based NDIR Sensors market is projected to increase from US\$ million in 2026 to US\$ million by 2032, at a CAGR of % over 2026-2032.

Major global companies in the Silicon-based NDIR Sensors market include Amphenol Advanced Sensors, Senseair (Asahi Kasei Microdevices), Murata, Sensirion, MKS Instruments, Vaisala, Teledyne API, Honeywell and ELT SENSOR, among others. In 2025, the top three vendors together accounted for approximately % of global revenue.

This report provides an overview of the global Silicon-based NDIR Sensors market in terms of sales, revenue, and price, analyzing global market trends using historical revenue and sales data for 2021-2025, estimates for 2026, and projected CAGRs through 2032.

The study covers key producers of Silicon-based NDIR Sensors and sales in major regions and countries, assesses future market potential, and highlights priority regions and countries for segmenting the market into sub-sectors, with country-specific market value data for the U.S., Canada, Mexico, Brazil, China, Japan, South Korea, Southeast Asia, India, Germany, the U.K., Italy, the Middle East, Africa, and other countries.

The report also presents Silicon-based NDIR Sensors sales, revenue, market share, and industry ranking for the main manufacturers for 2021-2026, identifies the major stakeholders in the global market, and analyzes their competitive landscape and market positioning based on recent developments and segmental revenues. In addition, the report analyzes segment data by Type and Application—covering sales, revenue, and price—for 2021-2032, and evaluates and forecasts the Silicon-based NDIR Sensors market size, projected growth trends, production technologies, key applications, and end-use industries.

Silicon-based NDIR Sensors Segment by Company

- Amphenol Advanced Sensors
- Senseair (Asahi Kasei Microdevices)
- Murata

Sensirion
MKS Instruments
Vaisala
Teledyne API
Honeywell
ELT SENSOR
E+E
Dwyer Instruments
Trane
Micro-Hybrid
Edinburgh Instruments
Alphasense
Cubic Sensor and Instrument Co.,Ltd
Nano Environmental Technology S.r.l. (N.E.T.)
Super Systems
ORIENTAL SYSTEM TECHNOLOGY INC.
smartGAS Mikrosensorik GmbH
SST Sensing Ltd
Winsen
Suzhou Promisense Co., Ltd.

Silicon-based NDIR Sensors Segment by Type

NDIR CO2 Sensors
NDIR Methane (CH4) Gas Sensors
NDIR CO Sensors
NDIR Propane Gas Sensors
NDIR Refrigerant Gases Sensors
NDIR Ethylene Gases Sensors
NDIR SF6 Infrared Sensors
Others

Silicon-based NDIR Sensors Segment by Application

Industrial Safety
Environmental Protection Industry
Medical Industry
Residential and Commercial Security
Power Industry
Automobile Industry
Research Institutions
Others

Silicon-based NDIR Sensors Segment by Region

North America
United States
Canada
Mexico
Europe
Germany
France

U.K.
Italy
Russia
Spain
Netherlands
Switzerland
Sweden
Poland
Asia-Pacific
China
Japan
South Korea
India
Australia
Taiwan
Southeast Asia
South America
Brazil
Argentina
Chile
Middle East & Africa
Egypt
South Africa
Israel
Türkiye
GCC Countries

Study Objectives

1. To analyze and research the global Silicon-based NDIR Sensors status and future forecast, involving, sales, revenue, growth rate (CAGR), market share, historical and forecast.
2. To present the key manufacturers, sales, revenue, market share, and Recent Developments.
3. To split the breakdown data by regions, type, manufacturers, and Application.
4. To analyze the global and key regions Silicon-based NDIR Sensors market potential and advantage, opportunity and challenge, restraints, and risks.
5. To identify Silicon-based NDIR Sensors significant trends, drivers, influence factors in global and regions.
6. To analyze Silicon-based NDIR Sensors competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Silicon-based NDIR Sensors market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.
2. This report will help stakeholders to understand the global industry status and trends of Silicon-based NDIR Sensors and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in sales and value), competitor ecosystem, new product development, expansion, and acquisition.

4. This report stays updated with novel technology integration, features, and the latest developments in the market.
5. This report helps stakeholders to gain insights into which regions to target globally.
6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Silicon-based NDIR Sensors.
7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

Chapter Outline

Chapter 1:

Provides an overview of the Silicon-based NDIR Sensors market, including product definition, global market growth prospects, sales value, sales volume, and average price forecasts (2021-2032).

Chapter 2:

Analysis key trends, drivers, challenges, and opportunities within the global Silicon-based NDIR Sensors industry.

Chapter 3:

Detailed analysis of Silicon-based NDIR Sensors manufacturers competitive landscape, price, sales and revenue market share, latest development plan, merger, and acquisition information, etc.

Chapter 4:

Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 5:

Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 6:

Sales and value of Silicon-based NDIR Sensors in regional level. It provides a quantitative analysis of the market size and development potential of each region and introduces the market development, future development prospects, market space, and market size of each country in the world.

Chapter 7:

Sales and value of Silicon-based NDIR Sensors in country level. It provides sigmate data by type, and by application for each country/region.

Chapter 8:

Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product sales, revenue, price, gross margin, product introduction, recent development, etc.

Chapter 9:

Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10:

Concluding Insights.

Table of Contents

1 Market Overview

- 1.1 Product Definition
- 1.2 Global Market Growth Prospects
 - 1.2.1 Global Silicon-based NDIR Sensors Sales Value (2021-2032)
 - 1.2.2 Global Silicon-based NDIR Sensors Sales Volume (2021-2032)
 - 1.2.3 Global Silicon-based NDIR Sensors Sales Average Price (2021-2032)
- 1.3 Assumptions and Limitations
- 1.4 Study Goals and Objectives

2 Silicon-based NDIR Sensors Market Dynamics

- 2.1 Silicon-based NDIR Sensors Industry Trends
- 2.2 Silicon-based NDIR Sensors Industry Drivers
- 2.3 Silicon-based NDIR Sensors Industry Opportunities and Challenges
- 2.4 Silicon-based NDIR Sensors Industry Restraints

3 Silicon-based NDIR Sensors Market by Company

- 3.1 Global Silicon-based NDIR Sensors Company Revenue Ranking in 2025
- 3.2 Global Silicon-based NDIR Sensors Revenue by Company (2021-2026)
- 3.3 Global Silicon-based NDIR Sensors Sales Volume by Company (2021-2026)
- 3.4 Global Silicon-based NDIR Sensors Average Price by Company (2021-2026)
- 3.5 Global Silicon-based NDIR Sensors Company Ranking (2024-2026)
- 3.6 Global Silicon-based NDIR Sensors Company Manufacturing Base and Headquarters
- 3.7 Global Silicon-based NDIR Sensors Company Product Type and Application
- 3.8 Global Silicon-based NDIR Sensors Company Establishment Date
- 3.9 Market Competitive Analysis
 - 3.9.1 Global Silicon-based NDIR Sensors Market Concentration Ratio (CR5 and HHI)
 - 3.9.2 Global Top 5 and 10 Company Market Share by Revenue in 2025
 - 3.9.3 2025 Silicon-based NDIR Sensors Tier 1, Tier 2, and Tier 3 Companies
- 3.10 Mergers and Acquisitions Expansion

4 Silicon-based NDIR Sensors Market by Type

- 4.1 Silicon-based NDIR Sensors Type Introduction
 - 4.1.1 NDIR CO2 Sensors
 - 4.1.2 NDIR Methane (CH4) Gas Sensors
 - 4.1.3 NDIR CO Sensors
 - 4.1.4 NDIR Propane Gas Sensors
 - 4.1.5 NDIR Refrigerant Gases Sensors
 - 4.1.6 NDIR Ethylene Gases Sensors
 - 4.1.7 NDIR SF6 Infrared Sensors
 - 4.1.8 Others
- 4.2 Global Silicon-based NDIR Sensors Sales Volume by Type
 - 4.2.1 Global Silicon-based NDIR Sensors Sales Volume by Type (2021 VS 2025 VS 2032)
 - 4.2.2 Global Silicon-based NDIR Sensors Sales Volume by Type (2021-2032)
 - 4.2.3 Global Silicon-based NDIR Sensors Sales Volume Share by Type (2021-2032)
- 4.3 Global Silicon-based NDIR Sensors Sales Value by Type
 - 4.3.1 Global Silicon-based NDIR Sensors Sales Value by Type (2021 VS 2025 VS 2032)

- 4.3.2 Global Silicon-based NDIR Sensors Sales Value by Type (2021-2032)
- 4.3.3 Global Silicon-based NDIR Sensors Sales Value Share by Type (2021-2032)

5 Silicon-based NDIR Sensors Market by Application

- 5.1 Silicon-based NDIR Sensors Application Introduction
 - 5.1.1 Industrial Safety
 - 5.1.2 Environmental Protection Industry
 - 5.1.3 Medical Industry
 - 5.1.4 Residential and Commercial Security
 - 5.1.5 Power Industry
 - 5.1.6 Automobile Industry
 - 5.1.7 Research Institutions
 - 5.1.8 Others
- 5.2 Global Silicon-based NDIR Sensors Sales Volume by Application
 - 5.2.1 Global Silicon-based NDIR Sensors Sales Volume by Application (2021 VS 2025 VS 2032)
 - 5.2.2 Global Silicon-based NDIR Sensors Sales Volume by Application (2021-2032)
 - 5.2.3 Global Silicon-based NDIR Sensors Sales Volume Share by Application (2021-2032)
- 5.3 Global Silicon-based NDIR Sensors Sales Value by Application
 - 5.3.1 Global Silicon-based NDIR Sensors Sales Value by Application (2021 VS 2025 VS 2032)
 - 5.3.2 Global Silicon-based NDIR Sensors Sales Value by Application (2021-2032)
 - 5.3.3 Global Silicon-based NDIR Sensors Sales Value Share by Application (2021-2032)

6 Silicon-based NDIR Sensors Regional Sales and Value Analysis

- 6.1 Global Silicon-based NDIR Sensors Sales by Region: 2021 VS 2025 VS 2032
- 6.2 Global Silicon-based NDIR Sensors Sales by Region (2021-2032)
 - 6.2.1 Global Silicon-based NDIR Sensors Sales by Region: 2021-2026
 - 6.2.2 Global Silicon-based NDIR Sensors Sales by Region (2027-2032)
- 6.3 Global Silicon-based NDIR Sensors Sales Value by Region: 2021 VS 2025 VS 2032
- 6.4 Global Silicon-based NDIR Sensors Sales Value by Region (2021-2032)
 - 6.4.1 Global Silicon-based NDIR Sensors Sales Value by Region: 2021-2026
 - 6.4.2 Global Silicon-based NDIR Sensors Sales Value by Region (2027-2032)
- 6.5 Global Silicon-based NDIR Sensors Market Price Analysis by Region (2021-2026)
- 6.6 North America
 - 6.6.1 North America Silicon-based NDIR Sensors Sales Value (2021-2032)
 - 6.6.2 North America Silicon-based NDIR Sensors Sales Value Share by Country, 2025 VS 2032
- 6.7 Europe
 - 6.7.1 Europe Silicon-based NDIR Sensors Sales Value (2021-2032)
 - 6.7.2 Europe Silicon-based NDIR Sensors Sales Value Share by Country, 2025 VS 2032
- 6.8 Asia-Pacific
 - 6.8.1 Asia-Pacific Silicon-based NDIR Sensors Sales Value (2021-2032)
 - 6.8.2 Asia-Pacific Silicon-based NDIR Sensors Sales Value Share by Country, 2025 VS 2032
- 6.9 South America
 - 6.9.1 South America Silicon-based NDIR Sensors Sales Value (2021-2032)
 - 6.9.2 South America Silicon-based NDIR Sensors Sales Value Share by Country, 2025 VS 2032
- 6.10 Middle East & Africa
 - 6.10.1 Middle East & Africa Silicon-based NDIR Sensors Sales Value (2021-2032)
 - 6.10.2 Middle East & Africa Silicon-based NDIR Sensors Sales Value Share by Country, 2025 VS 2032

7 Silicon-based NDIR Sensors Country-level Sales and Value Analysis

- 7.1 Global Silicon-based NDIR Sensors Sales by Country: 2021 VS 2025 VS 2032
- 7.2 Global Silicon-based NDIR Sensors Sales Value by Country: 2021 VS 2025 VS 2032
- 7.3 Global Silicon-based NDIR Sensors Sales by Country (2021-2032)
 - 7.3.1 Global Silicon-based NDIR Sensors Sales by Country (2021-2026)
 - 7.3.2 Global Silicon-based NDIR Sensors Sales by Country (2027-2032)
- 7.4 Global Silicon-based NDIR Sensors Sales Value by Country (2021-2032)
 - 7.4.1 Global Silicon-based NDIR Sensors Sales Value by Country (2021-2026)
 - 7.4.2 Global Silicon-based NDIR Sensors Sales Value by Country (2027-2032)
- 7.5 USA
 - 7.5.1 USA Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
 - 7.5.2 USA Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
 - 7.5.3 USA Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032
- 7.6 Canada
 - 7.6.1 Canada Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
 - 7.6.2 Canada Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
 - 7.6.3 Canada Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032
- 7.7 Mexico
 - 7.6.1 Mexico Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
 - 7.6.2 Mexico Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
 - 7.6.3 Mexico Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032
- 7.8 Germany
 - 7.8.1 Germany Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
 - 7.8.2 Germany Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
 - 7.8.3 Germany Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032
- 7.9 France
 - 7.9.1 France Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
 - 7.9.2 France Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
 - 7.9.3 France Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032
- 7.10 U.K.
 - 7.10.1 U.K. Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
 - 7.10.2 U.K. Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
 - 7.10.3 U.K. Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032
- 7.11 Italy
 - 7.11.1 Italy Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
 - 7.11.2 Italy Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
 - 7.11.3 Italy Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032
- 7.12 Spain
 - 7.12.1 Spain Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
 - 7.12.2 Spain Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
 - 7.12.3 Spain Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032
- 7.13 Russia
 - 7.13.1 Russia Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
 - 7.13.2 Russia Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
 - 7.13.3 Russia Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032
- 7.14 Netherlands
 - 7.14.1 Netherlands Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
 - 7.14.2 Netherlands Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
 - 7.14.3 Netherlands Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032

7.15 Nordic Countries

- 7.15.1 Nordic Countries Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
- 7.15.2 Nordic Countries Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
- 7.15.3 Nordic Countries Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032

7.16 China

- 7.16.1 China Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
- 7.16.2 China Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
- 7.16.3 China Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032

7.17 Japan

- 7.17.1 Japan Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
- 7.17.2 Japan Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
- 7.17.3 Japan Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032

7.18 South Korea

- 7.18.1 South Korea Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
- 7.18.2 South Korea Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
- 7.18.3 South Korea Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032

7.19 India

- 7.19.1 India Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
- 7.19.2 India Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
- 7.19.3 India Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032

7.20 Australia

- 7.20.1 Australia Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
- 7.20.2 Australia Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
- 7.20.3 Australia Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032

7.21 Southeast Asia

- 7.21.1 Southeast Asia Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
- 7.21.2 Southeast Asia Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
- 7.21.3 Southeast Asia Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032

7.22 Brazil

- 7.22.1 Brazil Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
- 7.22.2 Brazil Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
- 7.22.3 Brazil Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032

7.23 Argentina

- 7.23.1 Argentina Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
- 7.23.2 Argentina Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
- 7.23.3 Argentina Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032

7.24 Chile

- 7.24.1 Chile Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
- 7.24.2 Chile Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
- 7.24.3 Chile Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032

7.25 Colombia

- 7.25.1 Colombia Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
- 7.25.2 Colombia Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
- 7.25.3 Colombia Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032

7.26 Peru

- 7.26.1 Peru Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
- 7.26.2 Peru Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
- 7.26.3 Peru Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032

7.27 Saudi Arabia

- 7.27.1 Saudi Arabia Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
- 7.27.2 Saudi Arabia Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
- 7.27.3 Saudi Arabia Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032

7.28 Israel

- 7.28.1 Israel Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
- 7.28.2 Israel Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
- 7.28.3 Israel Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032

7.29 UAE

- 7.29.1 UAE Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
- 7.29.2 UAE Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
- 7.29.3 UAE Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032

7.30 Turkey

- 7.30.1 Turkey Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
- 7.30.2 Turkey Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
- 7.30.3 Turkey Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032

7.31 Iran

- 7.31.1 Iran Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
- 7.31.2 Iran Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
- 7.31.3 Iran Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032

7.32 Egypt

- 7.32.1 Egypt Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032)
- 7.32.2 Egypt Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032
- 7.32.3 Egypt Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032

8 Company Profiles

8.1 Amphenol Advanced Sensors

- 8.1.1 Amphenol Advanced Sensors Company Information
- 8.1.2 Amphenol Advanced Sensors Business Overview
- 8.1.3 Amphenol Advanced Sensors Silicon-based NDIR Sensors Sales, Value and Gross Margin (2021-2026)
- 8.1.4 Amphenol Advanced Sensors Silicon-based NDIR Sensors Product Portfolio
- 8.1.5 Amphenol Advanced Sensors Recent Developments

8.2 Senseair (Asahi Kasei Microdevices)

- 8.2.1 Senseair (Asahi Kasei Microdevices) Company Information
- 8.2.2 Senseair (Asahi Kasei Microdevices) Business Overview
- 8.2.3 Senseair (Asahi Kasei Microdevices) Silicon-based NDIR Sensors Sales, Value and Gross Margin (2021-2026)
- 8.2.4 Senseair (Asahi Kasei Microdevices) Silicon-based NDIR Sensors Product Portfolio
- 8.2.5 Senseair (Asahi Kasei Microdevices) Recent Developments

8.3 Murata

- 8.3.1 Murata Company Information
- 8.3.2 Murata Business Overview
- 8.3.3 Murata Silicon-based NDIR Sensors Sales, Value and Gross Margin (2021-2026)
- 8.3.4 Murata Silicon-based NDIR Sensors Product Portfolio
- 8.3.5 Murata Recent Developments

8.4 Sensirion

- 8.4.1 Sensirion Company Information
- 8.4.2 Sensirion Business Overview
- 8.4.3 Sensirion Silicon-based NDIR Sensors Sales, Value and Gross Margin (2021-2026)

8.4.4 Sensirion Silicon-based NDIR Sensors Product Portfolio

8.4.5 Sensirion Recent Developments

8.5 MKS Instruments

8.5.1 MKS Instruments Company Information

8.5.2 MKS Instruments Business Overview

8.5.3 MKS Instruments Silicon-based NDIR Sensors Sales, Value and Gross Margin (2021-2026)

8.5.4 MKS Instruments Silicon-based NDIR Sensors Product Portfolio

8.5.5 MKS Instruments Recent Developments

8.6 Vaisala

8.6.1 Vaisala Company Information

8.6.2 Vaisala Business Overview

8.6.3 Vaisala Silicon-based NDIR Sensors Sales, Value and Gross Margin (2021-2026)

8.6.4 Vaisala Silicon-based NDIR Sensors Product Portfolio

8.6.5 Vaisala Recent Developments

8.7 Teledyne API

8.7.1 Teledyne API Company Information

8.7.2 Teledyne API Business Overview

8.7.3 Teledyne API Silicon-based NDIR Sensors Sales, Value and Gross Margin (2021-2026)

8.7.4 Teledyne API Silicon-based NDIR Sensors Product Portfolio

8.7.5 Teledyne API Recent Developments

8.8 Honeywell

8.8.1 Honeywell Company Information

8.8.2 Honeywell Business Overview

8.8.3 Honeywell Silicon-based NDIR Sensors Sales, Value and Gross Margin (2021-2026)

8.8.4 Honeywell Silicon-based NDIR Sensors Product Portfolio

8.8.5 Honeywell Recent Developments

8.9 ELT SENSOR

8.9.1 ELT SENSOR Company Information

8.9.2 ELT SENSOR Business Overview

8.9.3 ELT SENSOR Silicon-based NDIR Sensors Sales, Value and Gross Margin (2021-2026)

8.9.4 ELT SENSOR Silicon-based NDIR Sensors Product Portfolio

8.9.5 ELT SENSOR Recent Developments

8.10 E+E

8.10.1 E+E Company Information

8.10.2 E+E Business Overview

8.10.3 E+E Silicon-based NDIR Sensors Sales, Value and Gross Margin (2021-2026)

8.10.4 E+E Silicon-based NDIR Sensors Product Portfolio

8.10.5 E+E Recent Developments

8.11 Dwyer Instruments

8.11.1 Dwyer Instruments Company Information

8.11.2 Dwyer Instruments Business Overview

8.11.3 Dwyer Instruments Silicon-based NDIR Sensors Sales, Value and Gross Margin (2021-2026)

8.11.4 Dwyer Instruments Silicon-based NDIR Sensors Product Portfolio

8.11.5 Dwyer Instruments Recent Developments

8.12 Trane

8.12.1 Trane Company Information

8.12.2 Trane Business Overview

8.12.3 Trane Silicon-based NDIR Sensors Sales, Value and Gross Margin (2021-2026)

8.12.4 Trane Silicon-based NDIR Sensors Product Portfolio

8.12.5 Trane Recent Developments

8.13 Micro-Hybrid

8.13.1 Micro-Hybrid Company Information

8.13.2 Micro-Hybrid Business Overview

8.13.3 Micro-Hybrid Silicon-based NDIR Sensors Sales, Value and Gross Margin (2021-2026)

8.13.4 Micro-Hybrid Silicon-based NDIR Sensors Product Portfolio

8.13.5 Micro-Hybrid Recent Developments

8.14 Edinburgh Instruments

8.14.1 Edinburgh Instruments Company Information

8.14.2 Edinburgh Instruments Business Overview

8.14.3 Edinburgh Instruments Silicon-based NDIR Sensors Sales, Value and Gross Margin (2021-2026)

8.14.4 Edinburgh Instruments Silicon-based NDIR Sensors Product Portfolio

8.14.5 Edinburgh Instruments Recent Developments

8.15 Alphasense

8.15.1 Alphasense Company Information

8.15.2 Alphasense Business Overview

8.15.3 Alphasense Silicon-based NDIR Sensors Sales, Value and Gross Margin (2021-2026)

8.15.4 Alphasense Silicon-based NDIR Sensors Product Portfolio

8.15.5 Alphasense Recent Developments

8.16 Cubic Sensor and Instrument Co.,Ltd

8.16.1 Cubic Sensor and Instrument Co.,Ltd Company Information

8.16.2 Cubic Sensor and Instrument Co.,Ltd Business Overview

8.16.3 Cubic Sensor and Instrument Co.,Ltd Silicon-based NDIR Sensors Sales, Value and Gross Margin (2021-2026)

8.16.4 Cubic Sensor and Instrument Co.,Ltd Silicon-based NDIR Sensors Product Portfolio

8.16.5 Cubic Sensor and Instrument Co.,Ltd Recent Developments

8.17 Nano Environmental Technology S.r.l. (N.E.T.)

8.17.1 Nano Environmental Technology S.r.l. (N.E.T.) Company Information

8.17.2 Nano Environmental Technology S.r.l. (N.E.T.) Business Overview

8.17.3 Nano Environmental Technology S.r.l. (N.E.T.) Silicon-based NDIR Sensors Sales, Value and Gross Margin (2021-2026)

8.17.4 Nano Environmental Technology S.r.l. (N.E.T.) Silicon-based NDIR Sensors Product Portfolio

8.17.5 Nano Environmental Technology S.r.l. (N.E.T.) Recent Developments

8.18 Super Systems

8.18.1 Super Systems Company Information

8.18.2 Super Systems Business Overview

8.18.3 Super Systems Silicon-based NDIR Sensors Sales, Value and Gross Margin (2021-2026)

8.18.4 Super Systems Silicon-based NDIR Sensors Product Portfolio

8.18.5 Super Systems Recent Developments

8.19 ORIENTAL SYSTEM TECHNOLOGY INC.

8.19.1 ORIENTAL SYSTEM TECHNOLOGY INC. Company Information

8.19.2 ORIENTAL SYSTEM TECHNOLOGY INC. Business Overview

8.19.3 ORIENTAL SYSTEM TECHNOLOGY INC. Silicon-based NDIR Sensors Sales, Value and Gross Margin (2021-2026)

8.19.4 ORIENTAL SYSTEM TECHNOLOGY INC. Silicon-based NDIR Sensors Product Portfolio

8.19.5 ORIENTAL SYSTEM TECHNOLOGY INC. Recent Developments

8.20 smartGAS Mikrosensorik GmbH

8.20.1 smartGAS Mikrosensorik GmbH Company Information

8.20.2 smartGAS Mikrosensorik GmbH Business Overview

8.20.3 smartGAS Mikrosensorik GmbH Silicon-based NDIR Sensors Sales, Value and Gross Margin (2021-2026)

8.20.4 smartGAS Mikrosensorik GmbH Silicon-based NDIR Sensors Product Portfolio

8.20.5 smartGAS Mikrosensorik GmbH Recent Developments

8.21 SST Sensing Ltd

8.21.1 SST Sensing Ltd Company Information

8.21.2 SST Sensing Ltd Business Overview

8.21.3 SST Sensing Ltd Silicon-based NDIR Sensors Sales, Value and Gross Margin (2021-2026)

8.21.4 SST Sensing Ltd Silicon-based NDIR Sensors Product Portfolio

8.21.5 SST Sensing Ltd Recent Developments

8.22 Winsen

8.22.1 Winsen Company Information

8.22.2 Winsen Business Overview

8.22.3 Winsen Silicon-based NDIR Sensors Sales, Value and Gross Margin (2021-2026)

8.22.4 Winsen Silicon-based NDIR Sensors Product Portfolio

8.22.5 Winsen Recent Developments

8.23 Suzhou Promisense Co., Ltd.

8.23.1 Suzhou Promisense Co., Ltd. Company Information

8.23.2 Suzhou Promisense Co., Ltd. Business Overview

8.23.3 Suzhou Promisense Co., Ltd. Silicon-based NDIR Sensors Sales, Value and Gross Margin (2021-2026)

8.23.4 Suzhou Promisense Co., Ltd. Silicon-based NDIR Sensors Product Portfolio

8.23.5 Suzhou Promisense Co., Ltd. Recent Developments

9 Value Chain and Sales Channels Analysis

9.1 Silicon-based NDIR Sensors Value Chain Analysis

9.1.1 Silicon-based NDIR Sensors Key Raw Materials

9.1.2 Raw Materials Key Suppliers

9.1.3 Manufacturing Cost Structure

9.1.4 Silicon-based NDIR Sensors Sales Mode & Process

9.2 Silicon-based NDIR Sensors Sales Channels Analysis

9.2.1 Direct Comparison with Distribution Share

9.2.2 Silicon-based NDIR Sensors Distributors

9.2.3 Silicon-based NDIR Sensors Customers

10 Concluding Insights

11 Appendix

11.1 Reasons for Doing This Study

11.2 Research Methodology

11.3 Research Process

11.4 Authors List of This Report

11.5 Data Source

11.5.1 Secondary Sources

11.5.2 Primary Sources

List of Tables and Figures

List of Tables:

- Table 1: Silicon-based NDIR Sensors Industry Trends
- Table 2: Silicon-based NDIR Sensors Industry Drivers
- Table 3: Silicon-based NDIR Sensors Industry Opportunities and Challenges
- Table 4: Silicon-based NDIR Sensors Industry Restraints
- Table 5: Global Silicon-based NDIR Sensors Revenue by Company (US\$ Million) & (2021-2026)
- Table 6: Global Silicon-based NDIR Sensors Revenue Share by Company (2021-2026)
- Table 7: Global Silicon-based NDIR Sensors Sales Volume by Company (k units) & (2021-2026)
- Table 8: Global Silicon-based NDIR Sensors Sales Volume Share by Company (2021-2026)
- Table 9: Global Silicon-based NDIR Sensors Average Price (USD/unit) of Company (2021-2026)
- Table 10: Global Silicon-based NDIR Sensors Company Ranking, (2024-2026) & (USD Million)
- Table 11: Global Silicon-based NDIR Sensors Key Company Manufacturing Base & Headquarters
- Table 12: Global Silicon-based NDIR Sensors Company, Product Type & Application
- Table 13: Global Silicon-based NDIR Sensors Company Establishment Date
- Table 14: Global Company Market Concentration Ratio (CR5 and HHI)
- Table 15: Global Silicon-based NDIR Sensors by Company Type (Tier 1, Tier 2, and Tier 3) & (Based on Revenue of 2025)
- Table 16: Mergers & Acquisitions, Expansion
- Table 17: Significant Companies of NDIR CO2 Sensors
- Table 18: Significant Companies of NDIR Methane (CH4) Gas Sensors
- Table 19: Significant Companies of NDIR CO Sensors
- Table 20: Significant Companies of NDIR Propane Gas Sensors
- Table 21: Significant Companies of NDIR Refrigerant Gases Sensors
- Table 22: Significant Companies of NDIR Ethylene Gases Sensors
- Table 23: Significant Companies of NDIR SF6 Infrared Sensors
- Table 24: Significant Companies of Others
- Table 25: Global Silicon-based NDIR Sensors Sales Volume by Type 2021 VS 2025 VS 2032 (k units)
- Table 26: Global Silicon-based NDIR Sensors Sales Volume by Type (2021-2026) & (k units)
- Table 27: Global Silicon-based NDIR Sensors Sales Volume by Type (2027-2032) & (k units)
- Table 28: Global Silicon-based NDIR Sensors Sales Volume Share by Type (2021-2026)
- Table 29: Global Silicon-based NDIR Sensors Sales Volume Share by Type (2027-2032)
- Table 30: Global Silicon-based NDIR Sensors Sales Value by Type 2021 VS 2025 VS 2032 (US\$ Million)
- Table 31: Global Silicon-based NDIR Sensors Sales Value by Type (2021-2026) & (US\$ Million)
- Table 32: Global Silicon-based NDIR Sensors Sales Value by Type (2027-2032) & (US\$ Million)
- Table 33: Global Silicon-based NDIR Sensors Sales Value Share by Type (2021-2026)
- Table 34: Global Silicon-based NDIR Sensors Sales Value Share by Type (2027-2032)
- Table 35: Significant Companies of Industrial Safety
- Table 36: Significant Companies of Environmental Protection Industry
- Table 37: Significant Companies of Medical Industry
- Table 38: Significant Companies of Residential and Commercial Security
- Table 39: Significant Companies of Power Industry
- Table 40: Significant Companies of Automobile Industry
- Table 41: Significant Companies of Research Institutions
- Table 42: Significant Companies of Others
- Table 43: Global Silicon-based NDIR Sensors Sales Volume by Application 2021 VS 2025 VS 2032 (k units)
- Table 44: Global Silicon-based NDIR Sensors Sales Volume by Application (2021-2026) & (k units)
- Table 45: Global Silicon-based NDIR Sensors Sales Volume by Application (2027-2032) & (k units)
- Table 46: Global Silicon-based NDIR Sensors Sales Volume Share by Application (2021-2026)
- Table 47: Global Silicon-based NDIR Sensors Sales Volume Share by Application (2027-2032)
- Table 48: Global Silicon-based NDIR Sensors Sales Value by Application 2021 VS 2025 VS 2032 (US\$ Million)
- Table 49: Global Silicon-based NDIR Sensors Sales Value by Application (2021-2026) & (US\$ Million)
- Table 50: Global Silicon-based NDIR Sensors Sales Value by Application (2027-2032) & (US\$ Million)
- Table 51: Global Silicon-based NDIR Sensors Sales Value Share by Application (2021-2026)
- Table 52: Global Silicon-based NDIR Sensors Sales Value Share by Application (2027-2032)
- Table 53: Global Silicon-based NDIR Sensors Sales by Region: 2021 VS 2025 VS 2032 (k units)
- Table 54: Global Silicon-based NDIR Sensors Sales by Region (2021-2026) & (k units)
- Table 55: Global Silicon-based NDIR Sensors Sales Market Share by Region (2021-2026)

- Table 56: Global Silicon-based NDIR Sensors Sales by Region (2027-2032) & (k units)
- Table 57: Global Silicon-based NDIR Sensors Sales Market Share by Region (2027-2032)
- Table 58: Global Silicon-based NDIR Sensors Sales Value Comparison by Region: 2021 VS 2025 VS 2032 (US\$ Million)
- Table 59: Global Silicon-based NDIR Sensors Sales Value by Region (2021-2026) & (US\$ Million)
- Table 60: Global Silicon-based NDIR Sensors Sales Value Share by Region (2021-2026)
- Table 61: Global Silicon-based NDIR Sensors Sales Value by Region (2027-2032) & (US\$ Million)
- Table 62: Global Silicon-based NDIR Sensors Sales Value Share by Region (2027-2032)
- Table 63: Global Silicon-based NDIR Sensors Market Average Price (USD/unit) by Region (2021-2026)
- Table 64: Global Silicon-based NDIR Sensors Market Average Price (USD/unit) by Region (2027-2032)
- Table 65: Global Silicon-based NDIR Sensors Sales by Country: 2021 VS 2025 VS 2032 (k units)
- Table 66: Global Silicon-based NDIR Sensors Sales Value by Country: 2021 VS 2025 VS 2032 (US\$ Million)
- Table 67: Global Silicon-based NDIR Sensors Sales by Country (2021-2026) & (k units)
- Table 68: Global Silicon-based NDIR Sensors Sales Market Share by Country (2021-2026)
- Table 69: Global Silicon-based NDIR Sensors Sales by Country (2027-2032) & (k units)
- Table 70: Global Silicon-based NDIR Sensors Sales Market Share by Country (2027-2032)
- Table 71: Global Silicon-based NDIR Sensors Sales Value by Country (2021-2026) & (US\$ Million)
- Table 72: Global Silicon-based NDIR Sensors Sales Value Market Share by Country (2021-2026)
- Table 73: Global Silicon-based NDIR Sensors Sales Value by Country (2027-2032) & (US\$ Million)
- Table 74: Global Silicon-based NDIR Sensors Sales Value Market Share by Country (2027-2032)
- Table 75: Amphenol Advanced Sensors Company Information
- Table 76: Amphenol Advanced Sensors Business Overview
- Table 77: Amphenol Advanced Sensors Silicon-based NDIR Sensors Sales (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin (2021-2026)
- Table 78: Amphenol Advanced Sensors Silicon-based NDIR Sensors Product Portfolio
- Table 79: Amphenol Advanced Sensors Recent Development
- Table 80: Senseair (Asahi Kasei Microdevices) Company Information
- Table 81: Senseair (Asahi Kasei Microdevices) Business Overview
- Table 82: Senseair (Asahi Kasei Microdevices) Silicon-based NDIR Sensors Sales (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin (2021-2026)
- Table 83: Senseair (Asahi Kasei Microdevices) Silicon-based NDIR Sensors Product Portfolio
- Table 84: Senseair (Asahi Kasei Microdevices) Recent Development
- Table 85: Murata Company Information
- Table 86: Murata Business Overview
- Table 87: Murata Silicon-based NDIR Sensors Sales (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin (2021-2026)
- Table 88: Murata Silicon-based NDIR Sensors Product Portfolio
- Table 89: Murata Recent Development
- Table 90: Sensirion Company Information
- Table 91: Sensirion Business Overview
- Table 92: Sensirion Silicon-based NDIR Sensors Sales (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin (2021-2026)
- Table 93: Sensirion Silicon-based NDIR Sensors Product Portfolio
- Table 94: Sensirion Recent Development
- Table 95: MKS Instruments Company Information
- Table 96: MKS Instruments Business Overview
- Table 97: MKS Instruments Silicon-based NDIR Sensors Sales (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin (2021-2026)
- Table 98: MKS Instruments Silicon-based NDIR Sensors Product Portfolio
- Table 99: MKS Instruments Recent Development
- Table 100: Vaisala Company Information
- Table 101: Vaisala Business Overview
- Table 102: Vaisala Silicon-based NDIR Sensors Sales (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin (2021-2026)
- Table 103: Vaisala Silicon-based NDIR Sensors Product Portfolio
- Table 104: Vaisala Recent Development
- Table 105: Teledyne API Company Information
- Table 106: Teledyne API Business Overview
- Table 107: Teledyne API Silicon-based NDIR Sensors Sales (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin (2021-2026)
- Table 108: Teledyne API Silicon-based NDIR Sensors Product Portfolio
- Table 109: Teledyne API Recent Development
- Table 110: Honeywell Company Information
- Table 111: Honeywell Business Overview
- Table 112: Honeywell Silicon-based NDIR Sensors Sales (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin (2021-2026)

- [Table 113: Honeywell Silicon-based NDIR Sensors Product Portfolio](#)
- [Table 114: Honeywell Recent Development](#)
- [Table 115: ELT SENSOR Company Information](#)
- [Table 116: ELT SENSOR Business Overview](#)
- [Table 117: ELT SENSOR Silicon-based NDIR Sensors Sales \(k units\), Value \(US\\$ Million\), Price \(USD/unit\) and Gross Margin \(2021-2026\)](#)
- [Table 118: ELT SENSOR Silicon-based NDIR Sensors Product Portfolio](#)
- [Table 119: ELT SENSOR Recent Development](#)
- [Table 120: E+E Company Information](#)
- [Table 121: E+E Business Overview](#)
- [Table 122: E+E Silicon-based NDIR Sensors Sales \(k units\), Value \(US\\$ Million\), Price \(USD/unit\) and Gross Margin \(2021-2026\)](#)
- [Table 123: E+E Silicon-based NDIR Sensors Product Portfolio](#)
- [Table 124: E+E Recent Development](#)
- [Table 125: Dwyer Instruments Company Information](#)
- [Table 126: Dwyer Instruments Business Overview](#)
- [Table 127: Dwyer Instruments Silicon-based NDIR Sensors Sales \(k units\), Value \(US\\$ Million\), Price \(USD/unit\) and Gross Margin \(2021-2026\)](#)
- [Table 128: Dwyer Instruments Silicon-based NDIR Sensors Product Portfolio](#)
- [Table 129: Dwyer Instruments Recent Development](#)
- [Table 130: Trane Company Information](#)
- [Table 131: Trane Business Overview](#)
- [Table 132: Trane Silicon-based NDIR Sensors Sales \(k units\), Value \(US\\$ Million\), Price \(USD/unit\) and Gross Margin \(2021-2026\)](#)
- [Table 133: Trane Silicon-based NDIR Sensors Product Portfolio](#)
- [Table 134: Trane Recent Development](#)
- [Table 135: Micro-Hybrid Company Information](#)
- [Table 136: Micro-Hybrid Business Overview](#)
- [Table 137: Micro-Hybrid Silicon-based NDIR Sensors Sales \(k units\), Value \(US\\$ Million\), Price \(USD/unit\) and Gross Margin \(2021-2026\)](#)
- [Table 138: Micro-Hybrid Silicon-based NDIR Sensors Product Portfolio](#)
- [Table 139: Micro-Hybrid Recent Development](#)
- [Table 140: Edinburgh Instruments Company Information](#)
- [Table 141: Edinburgh Instruments Business Overview](#)
- [Table 142: Edinburgh Instruments Silicon-based NDIR Sensors Sales \(k units\), Value \(US\\$ Million\), Price \(USD/unit\) and Gross Margin \(2021-2026\)](#)
- [Table 143: Edinburgh Instruments Silicon-based NDIR Sensors Product Portfolio](#)
- [Table 144: Edinburgh Instruments Recent Development](#)
- [Table 145: Alphasense Company Information](#)
- [Table 146: Alphasense Business Overview](#)
- [Table 147: Alphasense Silicon-based NDIR Sensors Sales \(k units\), Value \(US\\$ Million\), Price \(USD/unit\) and Gross Margin \(2021-2026\)](#)
- [Table 148: Alphasense Silicon-based NDIR Sensors Product Portfolio](#)
- [Table 149: Alphasense Recent Development](#)
- [Table 150: Cubic Sensor and Instrument Co.,Ltd Company Information](#)
- [Table 151: Cubic Sensor and Instrument Co.,Ltd Business Overview](#)
- [Table 152: Cubic Sensor and Instrument Co.,Ltd Silicon-based NDIR Sensors Sales \(k units\), Value \(US\\$ Million\), Price \(USD/unit\) and Gross Margin \(2021-2026\)](#)
- [Table 153: Cubic Sensor and Instrument Co.,Ltd Silicon-based NDIR Sensors Product Portfolio](#)
- [Table 154: Cubic Sensor and Instrument Co.,Ltd Recent Development](#)
- [Table 155: Nano Environmental Technology S.r.l. \(N.E.T.\) Company Information](#)
- [Table 156: Nano Environmental Technology S.r.l. \(N.E.T.\) Business Overview](#)
- [Table 157: Nano Environmental Technology S.r.l. \(N.E.T.\) Silicon-based NDIR Sensors Sales \(k units\), Value \(US\\$ Million\), Price \(USD/unit\) and Gross Margin \(2021-2026\)](#)
- [Table 158: Nano Environmental Technology S.r.l. \(N.E.T.\) Silicon-based NDIR Sensors Product Portfolio](#)
- [Table 159: Nano Environmental Technology S.r.l. \(N.E.T.\) Recent Development](#)
- [Table 160: Super Systems Company Information](#)
- [Table 161: Super Systems Business Overview](#)
- [Table 162: Super Systems Silicon-based NDIR Sensors Sales \(k units\), Value \(US\\$ Million\), Price \(USD/unit\) and Gross Margin \(2021-2026\)](#)
- [Table 163: Super Systems Silicon-based NDIR Sensors Product Portfolio](#)
- [Table 164: Super Systems Recent Development](#)
- [Table 165: ORIENTAL SYSTEM TECHNOLOGY INC. Company Information](#)
- [Table 166: ORIENTAL SYSTEM TECHNOLOGY INC. Business Overview](#)
- [Table 167: ORIENTAL SYSTEM TECHNOLOGY INC. Silicon-based NDIR Sensors Sales \(k units\), Value \(US\\$ Million\), Price](#)

(USD/unit) and Gross Margin (2021-2026)

- Table 168: ORIENTAL SYSTEM TECHNOLOGY INC. Silicon-based NDIR Sensors Product Portfolio
- Table 169: ORIENTAL SYSTEM TECHNOLOGY INC. Recent Development
- Table 170: smartGAS Mikrosensorik GmbH Company Information
- Table 171: smartGAS Mikrosensorik GmbH Business Overview
- Table 172: smartGAS Mikrosensorik GmbH Silicon-based NDIR Sensors Sales (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin (2021-2026)
- Table 173: smartGAS Mikrosensorik GmbH Silicon-based NDIR Sensors Product Portfolio
- Table 174: smartGAS Mikrosensorik GmbH Recent Development
- Table 175: SST Sensing Ltd Company Information
- Table 176: SST Sensing Ltd Business Overview
- Table 177: SST Sensing Ltd Silicon-based NDIR Sensors Sales (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin (2021-2026)
- Table 178: SST Sensing Ltd Silicon-based NDIR Sensors Product Portfolio
- Table 179: SST Sensing Ltd Recent Development
- Table 180: Winsen Company Information
- Table 181: Winsen Business Overview
- Table 182: Winsen Silicon-based NDIR Sensors Sales (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin (2021-2026)
- Table 183: Winsen Silicon-based NDIR Sensors Product Portfolio
- Table 184: Winsen Recent Development
- Table 185: Suzhou Promisense Co., Ltd. Company Information
- Table 186: Suzhou Promisense Co., Ltd. Business Overview
- Table 187: Suzhou Promisense Co., Ltd. Silicon-based NDIR Sensors Sales (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin (2021-2026)
- Table 188: Suzhou Promisense Co., Ltd. Silicon-based NDIR Sensors Product Portfolio
- Table 189: Suzhou Promisense Co., Ltd. Recent Development
- Table 190: Key Raw Materials
- Table 191: Raw Materials Key Suppliers
- Table 192: Silicon-based NDIR Sensors Distributors List
- Table 193: Silicon-based NDIR Sensors Customers List
- Table 194: Research Programs/Design for This Report
- Table 195: Authors List of This Report
- Table 196: Secondary Sources
- Table 197: Primary Sources

List of Figures:

- Figure 1: Silicon-based NDIR Sensors Product Image
- Figure 2: Global Silicon-based NDIR Sensors Sales Value (US\$ Million), 2021 VS 2025 VS 2032
- Figure 3: Global Silicon-based NDIR Sensors Sales Value (2021-2032) & (US\$ Million)
- Figure 4: Global Silicon-based NDIR Sensors Sales (2021-2032) & (k units)
- Figure 5: Global Silicon-based NDIR Sensors Sales Average Price (USD/unit) & (2021-2032)
- Figure 6: Global Silicon-based NDIR Sensors Company Revenue Ranking in 2025 (US\$ Million)
- Figure 7: Global Top 5 and 10 Company Market Share by Revenue in 2025 (US\$ Million)
- Figure 8: Company Type (Tier 1, Tier 2, and Tier 3): 2021 VS 2025
- Figure 9: NDIR CO2 Sensors Image
- Figure 10: NDIR Methane (CH4) Gas Sensors Image
- Figure 11: NDIR CO Sensors Image
- Figure 12: NDIR Propane Gas Sensors Image
- Figure 13: NDIR Refrigerant Gases Sensors Image
- Figure 14: NDIR Ethylene Gases Sensors Image
- Figure 15: NDIR SF6 Infrared Sensors Image
- Figure 16: Others Image
- Figure 17: Global Silicon-based NDIR Sensors Sales Volume by Type (2021 VS 2025 VS 2032) & (k units)
- Figure 18: Global Silicon-based NDIR Sensors Sales Volume Share 2021 VS 2025 VS 2032
- Figure 19: Global Silicon-based NDIR Sensors Sales Volume Share by Type (2021-2032)
- Figure 20: Global Silicon-based NDIR Sensors Sales Value by Type (2021 VS 2025 VS 2032) & (US\$ Million)
- Figure 21: Global Silicon-based NDIR Sensors Sales Value Share 2021 VS 2025 VS 2032
- Figure 22: Global Silicon-based NDIR Sensors Sales Value Share by Type (2021-2032)
- Figure 23: Industrial Safety Image
- Figure 24: Environmental Protection Industry Image
- Figure 25: Medical Industry Image
- Figure 26: Residential and Commercial Security Image

- Figure 27: Power Industry Image
- Figure 28: Automobile Industry Image
- Figure 29: Research Institutions Image
- Figure 30: Others Image
- Figure 31: Global Silicon-based NDIR Sensors Sales Volume by Application (2021 VS 2025 VS 2032) & (k units)
- Figure 32: Global Silicon-based NDIR Sensors Sales Volume Share 2021 VS 2025 VS 2032
- Figure 33: Global Silicon-based NDIR Sensors Sales Volume Share by Application (2021-2032)
- Figure 34: Global Silicon-based NDIR Sensors Sales Value by Application (2021 VS 2025 VS 2032) & (US\$ Million)
- Figure 35: Global Silicon-based NDIR Sensors Sales Value Share 2021 VS 2025 VS 2032
- Figure 36: Global Silicon-based NDIR Sensors Sales Value Share by Application (2021-2032)
- Figure 37: Global Silicon-based NDIR Sensors Sales by Region: 2021 VS 2025 VS 2032 (k units)
- Figure 38: Global Silicon-based NDIR Sensors Sales Market Share by Region: 2021 VS 2025 VS 2032
- Figure 39: Global Silicon-based NDIR Sensors Sales Value Comparison by Region: 2021 VS 2025 VS 2032 (US\$ Million)
- Figure 40: Global Silicon-based NDIR Sensors Sales Value Share by Region: 2021 VS 2025 VS 2032
- Figure 41: North America Silicon-based NDIR Sensors Sales Value (2021-2032) & (US\$ Million)
- Figure 42: North America Silicon-based NDIR Sensors Sales Value Share by Country (%), 2025 VS 2032
- Figure 43: Europe Silicon-based NDIR Sensors Sales Value (2021-2032) & (US\$ Million)
- Figure 44: Europe Silicon-based NDIR Sensors Sales Value Share by Country (%), 2025 VS 2032
- Figure 45: Asia-Pacific Silicon-based NDIR Sensors Sales Value (2021-2032) & (US\$ Million)
- Figure 46: Asia-Pacific Silicon-based NDIR Sensors Sales Value Share by Country (%), 2025 VS 2032
- Figure 47: South America Silicon-based NDIR Sensors Sales Value (2021-2032) & (US\$ Million)
- Figure 48: South America Silicon-based NDIR Sensors Sales Value Share by Country (%), 2025 VS 2032
- Figure 49: Middle East & Africa Silicon-based NDIR Sensors Sales Value (2021-2032) & (US\$ Million)
- Figure 50: Middle East & Africa Silicon-based NDIR Sensors Sales Value Share by Country (%), 2025 VS 2032
- Figure 51: USA Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 52: USA Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)
- Figure 53: USA Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 54: Canada Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 55: Canada Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)
- Figure 56: Canada Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 57: Mexico Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 58: Mexico Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)
- Figure 59: Mexico Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 60: Germany Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 61: Germany Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)
- Figure 62: Germany Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 63: France Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 64: France Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)
- Figure 65: France Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 66: U.K. Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 67: U.K. Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)
- Figure 68: U.K. Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 69: Italy Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 70: Italy Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)
- Figure 71: Italy Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 72: Spain Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 73: Spain Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)
- Figure 74: Spain Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 75: Russia Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 76: Russia Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)
- Figure 77: Russia Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 78: Netherlands Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 79: Netherlands Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)
- Figure 80: Netherlands Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 81: Nordic Countries Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 82: Nordic Countries Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)
- Figure 83: Nordic Countries Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 84: China Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 85: China Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)
- Figure 86: China Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 87: Japan Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 88: Japan Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)
- Figure 89: Japan Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 90: South Korea Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 91: South Korea Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)

- Figure 92: South Korea Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 93: India Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 94: India Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)
- Figure 95: India Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 96: Australia Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 97: Australia Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)
- Figure 98: Australia Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 99: Southeast Asia Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 100: Southeast Asia Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)
- Figure 101: Southeast Asia Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 102: Brazil Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 103: Brazil Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)
- Figure 104: Brazil Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 105: Argentina Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 106: Argentina Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)
- Figure 107: Argentina Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 108: Chile Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 109: Chile Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)
- Figure 110: Chile Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 111: Colombia Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 112: Colombia Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)
- Figure 113: Colombia Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 114: Peru Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 115: Peru Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)
- Figure 116: Peru Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 117: Saudi Arabia Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 118: Saudi Arabia Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)
- Figure 119: Saudi Arabia Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 120: Israel Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 121: Israel Arabia Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)
- Figure 122: Israel Arabia Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 123: UAE Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 124: UAE Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)
- Figure 125: UAE Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 126: Turkey Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 127: Turkey Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)
- Figure 128: Turkey Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 129: Iran Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 130: Iran Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)
- Figure 131: Iran Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 132: Egypt Silicon-based NDIR Sensors Sales Value Growth Rate (2021-2032) & (US\$ Million)
- Figure 133: Egypt Silicon-based NDIR Sensors Sales Value Share by Type, 2025 VS 2032 & (%)
- Figure 134: Egypt Silicon-based NDIR Sensors Sales Value Share by Application, 2025 VS 2032 & (%)
- Figure 135: Silicon-based NDIR Sensors Value Chain
- Figure 136: Manufacturing Cost Structure
- Figure 137: Silicon-based NDIR Sensors Sales Mode & Process
- Figure 138: Direct Comparison with Distribution Share
- Figure 139: Distributors Profiles
- Figure 140: Years Considered
- Figure 141: Research Process
- Figure 142: Key Executives Interviewed