

Global NDIR Sensors Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global NDIR Sensors market size is expected to reach \$ 1331.9 million by 2029, rising at a market growth of 7.3% CAGR during the forecast period (2023-2029).

Global key players of NDIR Sensors include Amphenol Advanced Sensors, Senseair (Asahi Kasei Microdevices), Murata, Sensirion, MKS Instruments and ELT SENSOR. Top five players occupy for a share over 18%. North America is the largest market, with a share about 36%, followed by Europe and Asia-Pacific. In terms of product type, NDIR CO2 Sensors is the largest segment, with a share over 57%. In terms of application, Residential and Commercial Security is the largest market, with a share about 50%.

NDIR gas sensors use the infrared absorption properties of gas molecules (e.g., CO₂) to calculate their concentration. Therefore, the NDIR gas sensor is equipped with an infrared light source that emits infrared rays and an infrared sensor that detects infrared rays. The infrared light is directed at the gas in the measuring tube and part of the light is absorbed by the gas molecules to be measured. Subsequently, the rest of the infrared light hits the filter and reaches the infrared detector. Ideally, only the gas to be measured absorbs light of the corresponding wavelength. However, since the gas mixture contains a variety of gases, the absorption regions may overlap, thus enhancing cross sensitivity. The interference part must either be tested for compensation (to avoid false measurements) or avoided by clever selection of spectral ranges. With the NDIR sensor, more than 100 different gases can be detected from ppm to percentage. In many applications, this is the preferred method because the measurement method is non-contact and non-consuming.

This report studies the global NDIR Sensors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for NDIR Sensors, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of NDIR Sensors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global NDIR Sensors total production and demand, 2018-2029, (K Units)

Global NDIR Sensors total production value, 2018-2029, (USD Million)

Global NDIR Sensors production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global NDIR Sensors consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: NDIR Sensors domestic production, consumption, key domestic manufacturers and share

Global NDIR Sensors production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global NDIR Sensors production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global NDIR Sensors production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units).

This reports profiles key players in the global NDIR Sensors 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 Amphenol Advanced Sensors, Senseair (Asahi Kasei Microdevices), Murata, Sensirion, MKS Instruments, Vaisala, Teledyne API, Honeywell and ELT SENSOR, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World NDIR Sensors 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 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global NDIR Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global NDIR Sensors Market, Segmentation 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

Global NDIR Sensors Market, Segmentation by Application

Industrial Safety

Environmental Protection Industry

Medical Industry

Residential and Commercial Security

Power Industry

Automobile Industry

Research Institutions

Others

Companies Profiled:

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.

Key Questions Answered

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

Contents

1 SUPPLY SUMMARY

- 1.1 NDIR Sensors Introduction
- 1.2 World NDIR Sensors Supply & Forecast
 - 1.2.1 World NDIR Sensors Production Value (2018 & 2022 & 2029)
 - 1.2.2 World NDIR Sensors Production (2018-2029)
 - 1.2.3 World NDIR Sensors Pricing Trends (2018-2029)
- 1.3 World NDIR Sensors Production by Region (Based on Production Site)
 - 1.3.1 World NDIR Sensors Production Value by Region (2018-2029)
 - 1.3.2 World NDIR Sensors Production by Region (2018-2029)
 - 1.3.3 World NDIR Sensors Average Price by Region (2018-2029)
 - 1.3.4 North America NDIR Sensors Production (2018-2029)
 - 1.3.5 Europe NDIR Sensors Production (2018-2029)
 - 1.3.6 China NDIR Sensors Production (2018-2029)
 - 1.3.7 Japan NDIR Sensors Production (2018-2029)
 - 1.3.8 South Korea NDIR Sensors Production (2018-2029)
 - 1.3.9 India NDIR Sensors Production (2018-2029)
 - 1.3.10 Southeast Asia NDIR Sensors Production (2018-2029)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 NDIR Sensors Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 NDIR Sensors Major Market Trends
- 1.5 Influence of COVID-19 and Russia-Ukraine War
 - 1.5.1 Influence of COVID-19
 - 1.5.2 Influence of Russia-Ukraine War

2 DEMAND SUMMARY

- 2.1 World NDIR Sensors Demand (2018-2029)
- 2.2 World NDIR Sensors Consumption by Region
 - 2.2.1 World NDIR Sensors Consumption by Region (2018-2023)
 - 2.2.2 World NDIR Sensors Consumption Forecast by Region (2024-2029)
- 2.3 United States NDIR Sensors Consumption (2018-2029)
- 2.4 China NDIR Sensors Consumption (2018-2029)
- 2.5 Europe NDIR Sensors Consumption (2018-2029)
- 2.6 Japan NDIR Sensors Consumption (2018-2029)
- 2.7 South Korea NDIR Sensors Consumption (2018-2029)

2.8 ASEAN NDIR Sensors Consumption (2018-2029)

2.9 India NDIR Sensors Consumption (2018-2029)

3 WORLD NDIR SENSORS MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World NDIR Sensors Production Value by Manufacturer (2018-2023)

3.2 World NDIR Sensors Production by Manufacturer (2018-2023)

3.3 World NDIR Sensors Average Price by Manufacturer (2018-2023)

3.4 NDIR Sensors Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global NDIR Sensors Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for NDIR Sensors in 2022

3.5.3 Global Concentration Ratios (CR8) for NDIR Sensors in 2022

3.6 NDIR Sensors Market: Overall Company Footprint Analysis

3.6.1 NDIR Sensors Market: Region Footprint

3.6.2 NDIR Sensors Market: Company Product Type Footprint

3.6.3 NDIR Sensors Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: NDIR Sensors Production Value Comparison

4.1.1 United States VS China: NDIR Sensors Production Value Comparison (2018 & 2022 & 2029)

4.1.2 United States VS China: NDIR Sensors Production Value Market Share Comparison (2018 & 2022 & 2029)

4.2 United States VS China: NDIR Sensors Production Comparison

4.2.1 United States VS China: NDIR Sensors Production Comparison (2018 & 2022 & 2029)

4.2.2 United States VS China: NDIR Sensors Production Market Share Comparison (2018 & 2022 & 2029)

4.3 United States VS China: NDIR Sensors Consumption Comparison

4.3.1 United States VS China: NDIR Sensors Consumption Comparison (2018 & 2022 & 2029)

4.3.2 United States VS China: NDIR Sensors Consumption Market Share Comparison (2018 & 2022 & 2029)

4.4 United States Based NDIR Sensors Manufacturers and Market Share, 2018-2023

4.4.1 United States Based NDIR Sensors Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers NDIR Sensors Production Value (2018-2023)

4.4.3 United States Based Manufacturers NDIR Sensors Production (2018-2023)

4.5 China Based NDIR Sensors Manufacturers and Market Share

4.5.1 China Based NDIR Sensors Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers NDIR Sensors Production Value (2018-2023)

4.5.3 China Based Manufacturers NDIR Sensors Production (2018-2023)

4.6 Rest of World Based NDIR Sensors Manufacturers and Market Share, 2018-2023

4.6.1 Rest of World Based NDIR Sensors Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers NDIR Sensors Production Value (2018-2023)

4.6.3 Rest of World Based Manufacturers NDIR Sensors Production (2018-2023)

5 MARKET ANALYSIS BY TYPE

5.1 World NDIR Sensors Market Size Overview by Type: 2018 VS 2022 VS 2029

5.2 Segment Introduction by Type

5.2.1 NDIR CO₂ Sensors

5.2.2 NDIR Methane (CH₄) Gas Sensors

5.2.3 NDIR CO Sensors

5.2.4 NDIR Propane Gas Sensors

5.2.5 NDIR Refrigerant Gases Sensors

5.2.6 NDIR Ethylene Gases Sensors

5.2.7 NDIR SF₆ Infrared Sensors

5.2.8 Others

5.3 Market Segment by Type

5.3.1 World NDIR Sensors Production by Type (2018-2029)

5.3.2 World NDIR Sensors Production Value by Type (2018-2029)

5.3.3 World NDIR Sensors Average Price by Type (2018-2029)

6 MARKET ANALYSIS BY APPLICATION

6.1 World NDIR Sensors Market Size Overview by Application: 2018 VS 2022 VS 2029

6.2 Segment Introduction by Application

- 6.2.1 Industrial Safety
- 6.2.2 Environmental Protection Industry
- 6.2.3 Medical Industry
- 6.2.4 Residential and Commercial Security
- 6.2.5 Power Industry
- 6.2.6 Automobile Industry
- 6.2.7 Research Institutions
- 6.2.8 Others

6.3 Market Segment by Application

- 6.3.1 World NDIR Sensors Production by Application (2018-2029)
- 6.3.2 World NDIR Sensors Production Value by Application (2018-2029)
- 6.3.3 World NDIR Sensors Average Price by Application (2018-2029)

7 COMPANY PROFILES

7.1 Amphenol Advanced Sensors

- 7.1.1 Amphenol Advanced Sensors Details
- 7.1.2 Amphenol Advanced Sensors Major Business
- 7.1.3 Amphenol Advanced Sensors NDIR Sensors Product and Services
- 7.1.4 Amphenol Advanced Sensors NDIR Sensors Production, Price, Value, Gross Margin and Market Share (2018-2023)
- 7.1.5 Amphenol Advanced Sensors Recent Developments/Updates
- 7.1.6 Amphenol Advanced Sensors Competitive Strengths & Weaknesses

7.2 Senseair (Asahi Kasei Microdevices)

- 7.2.1 Senseair (Asahi Kasei Microdevices) Details
- 7.2.2 Senseair (Asahi Kasei Microdevices) Major Business
- 7.2.3 Senseair (Asahi Kasei Microdevices) NDIR Sensors Product and Services
- 7.2.4 Senseair (Asahi Kasei Microdevices) NDIR Sensors Production, Price, Value, Gross Margin and Market Share (2018-2023)
- 7.2.5 Senseair (Asahi Kasei Microdevices) Recent Developments/Updates
- 7.2.6 Senseair (Asahi Kasei Microdevices) Competitive Strengths & Weaknesses

7.3 Murata

- 7.3.1 Murata Details
- 7.3.2 Murata Major Business
- 7.3.3 Murata NDIR Sensors Product and Services
- 7.3.4 Murata NDIR Sensors Production, Price, Value, Gross Margin and Market Share (2018-2023)

- 7.3.5 Murata Recent Developments/Updates
- 7.3.6 Murata Competitive Strengths & Weaknesses
- 7.4 Sensirion
 - 7.4.1 Sensirion Details
 - 7.4.2 Sensirion Major Business
 - 7.4.3 Sensirion NDIR Sensors Product and Services
 - 7.4.4 Sensirion NDIR Sensors Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.4.5 Sensirion Recent Developments/Updates
 - 7.4.6 Sensirion Competitive Strengths & Weaknesses
- 7.5 MKS Instruments
 - 7.5.1 MKS Instruments Details
 - 7.5.2 MKS Instruments Major Business
 - 7.5.3 MKS Instruments NDIR Sensors Product and Services
 - 7.5.4 MKS Instruments NDIR Sensors Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.5.5 MKS Instruments Recent Developments/Updates
 - 7.5.6 MKS Instruments Competitive Strengths & Weaknesses
- 7.6 Vaisala
 - 7.6.1 Vaisala Details
 - 7.6.2 Vaisala Major Business
 - 7.6.3 Vaisala NDIR Sensors Product and Services
 - 7.6.4 Vaisala NDIR Sensors Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.6.5 Vaisala Recent Developments/Updates
 - 7.6.6 Vaisala Competitive Strengths & Weaknesses
- 7.7 Teledyne API
 - 7.7.1 Teledyne API Details
 - 7.7.2 Teledyne API Major Business
 - 7.7.3 Teledyne API NDIR Sensors Product and Services
 - 7.7.4 Teledyne API NDIR Sensors Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.7.5 Teledyne API Recent Developments/Updates
 - 7.7.6 Teledyne API Competitive Strengths & Weaknesses
- 7.8 Honeywell
 - 7.8.1 Honeywell Details
 - 7.8.2 Honeywell Major Business
 - 7.8.3 Honeywell NDIR Sensors Product and Services
 - 7.8.4 Honeywell NDIR Sensors Production, Price, Value, Gross Margin and Market

Share (2018-2023)

7.8.5 Honeywell Recent Developments/Updates

7.8.6 Honeywell Competitive Strengths & Weaknesses

7.9 ELT SENSOR

7.9.1 ELT SENSOR Details

7.9.2 ELT SENSOR Major Business

7.9.3 ELT SENSOR NDIR Sensors Product and Services

7.9.4 ELT SENSOR NDIR Sensors Production, Price, Value, Gross Margin and Market

Share (2018-2023)

7.9.5 ELT SENSOR Recent Developments/Updates

7.9.6 ELT SENSOR Competitive Strengths & Weaknesses

7.10 E+E

7.10.1 E+E Details

7.10.2 E+E Major Business

7.10.3 E+E NDIR Sensors Product and Services

7.10.4 E+E NDIR Sensors Production, Price, Value, Gross Margin and Market Share

(2018-2023)

7.10.5 E+E Recent Developments/Updates

7.10.6 E+E Competitive Strengths & Weaknesses

7.11 Dwyer Instruments

7.11.1 Dwyer Instruments Details

7.11.2 Dwyer Instruments Major Business

7.11.3 Dwyer Instruments NDIR Sensors Product and Services

7.11.4 Dwyer Instruments NDIR Sensors Production, Price, Value, Gross Margin and

Market Share (2018-2023)

7.11.5 Dwyer Instruments Recent Developments/Updates

7.11.6 Dwyer Instruments Competitive Strengths & Weaknesses

7.12 Trane

7.12.1 Trane Details

7.12.2 Trane Major Business

7.12.3 Trane NDIR Sensors Product and Services

7.12.4 Trane NDIR Sensors Production, Price, Value, Gross Margin and Market Share

(2018-2023)

7.12.5 Trane Recent Developments/Updates

7.12.6 Trane Competitive Strengths & Weaknesses

7.13 Micro-Hybrid

7.13.1 Micro-Hybrid Details

7.13.2 Micro-Hybrid Major Business

7.13.3 Micro-Hybrid NDIR Sensors Product and Services

7.13.4 Micro-Hybrid NDIR Sensors Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.13.5 Micro-Hybrid Recent Developments/Updates

7.13.6 Micro-Hybrid Competitive Strengths & Weaknesses

7.14 Edinburgh Instruments

7.14.1 Edinburgh Instruments Details

7.14.2 Edinburgh Instruments Major Business

7.14.3 Edinburgh Instruments NDIR Sensors Product and Services

7.14.4 Edinburgh Instruments NDIR Sensors Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.14.5 Edinburgh Instruments Recent Developments/Updates

7.14.6 Edinburgh Instruments Competitive Strengths & Weaknesses

7.15 Alphasense

7.15.1 Alphasense Details

7.15.2 Alphasense Major Business

7.15.3 Alphasense NDIR Sensors Product and Services

7.15.4 Alphasense NDIR Sensors Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.15.5 Alphasense Recent Developments/Updates

7.15.6 Alphasense Competitive Strengths & Weaknesses

7.16 Cubic Sensor and Instrument Co.,Ltd

7.16.1 Cubic Sensor and Instrument Co.,Ltd Details

7.16.2 Cubic Sensor and Instrument Co.,Ltd Major Business

7.16.3 Cubic Sensor and Instrument Co.,Ltd NDIR Sensors Product and Services

7.16.4 Cubic Sensor and Instrument Co.,Ltd NDIR Sensors Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.16.5 Cubic Sensor and Instrument Co.,Ltd Recent Developments/Updates

7.16.6 Cubic Sensor and Instrument Co.,Ltd Competitive Strengths & Weaknesses

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

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

7.17.2 Nano Environmental Technology S.r.l. (N.E.T.) Major Business

7.17.3 Nano Environmental Technology S.r.l. (N.E.T.) NDIR Sensors Product and Services

7.17.4 Nano Environmental Technology S.r.l. (N.E.T.) NDIR Sensors Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.17.5 Nano Environmental Technology S.r.l. (N.E.T.) Recent Developments/Updates

7.17.6 Nano Environmental Technology S.r.l. (N.E.T.) Competitive Strengths & Weaknesses

7.18 Super Systems

- 7.18.1 Super Systems Details
- 7.18.2 Super Systems Major Business
- 7.18.3 Super Systems NDIR Sensors Product and Services
- 7.18.4 Super Systems NDIR Sensors Production, Price, Value, Gross Margin and Market Share (2018-2023)
- 7.18.5 Super Systems Recent Developments/Updates
- 7.18.6 Super Systems Competitive Strengths & Weaknesses
- 7.19 ORIENTAL SYSTEM TECHNOLOGY INC.
 - 7.19.1 ORIENTAL SYSTEM TECHNOLOGY INC. Details
 - 7.19.2 ORIENTAL SYSTEM TECHNOLOGY INC. Major Business
 - 7.19.3 ORIENTAL SYSTEM TECHNOLOGY INC. NDIR Sensors Product and Services
 - 7.19.4 ORIENTAL SYSTEM TECHNOLOGY INC. NDIR Sensors Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.19.5 ORIENTAL SYSTEM TECHNOLOGY INC. Recent Developments/Updates
 - 7.19.6 ORIENTAL SYSTEM TECHNOLOGY INC. Competitive Strengths & Weaknesses
- 7.20 smartGAS Mikrosensorik GmbH
 - 7.20.1 smartGAS Mikrosensorik GmbH Details
 - 7.20.2 smartGAS Mikrosensorik GmbH Major Business
 - 7.20.3 smartGAS Mikrosensorik GmbH NDIR Sensors Product and Services
 - 7.20.4 smartGAS Mikrosensorik GmbH NDIR Sensors Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.20.5 smartGAS Mikrosensorik GmbH Recent Developments/Updates
 - 7.20.6 smartGAS Mikrosensorik GmbH Competitive Strengths & Weaknesses
- 7.21 SST Sensing Ltd
 - 7.21.1 SST Sensing Ltd Details
 - 7.21.2 SST Sensing Ltd Major Business
 - 7.21.3 SST Sensing Ltd NDIR Sensors Product and Services
 - 7.21.4 SST Sensing Ltd NDIR Sensors Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.21.5 SST Sensing Ltd Recent Developments/Updates
 - 7.21.6 SST Sensing Ltd Competitive Strengths & Weaknesses
- 7.22 Winsen
 - 7.22.1 Winsen Details
 - 7.22.2 Winsen Major Business
 - 7.22.3 Winsen NDIR Sensors Product and Services
 - 7.22.4 Winsen NDIR Sensors Production, Price, Value, Gross Margin and Market Share (2018-2023)

- 7.22.5 Winsen Recent Developments/Updates
- 7.22.6 Winsen Competitive Strengths & Weaknesses
- 7.23 Suzhou Promisense Co., Ltd.
 - 7.23.1 Suzhou Promisense Co., Ltd. Details
 - 7.23.2 Suzhou Promisense Co., Ltd. Major Business
 - 7.23.3 Suzhou Promisense Co., Ltd. NDIR Sensors Product and Services
 - 7.23.4 Suzhou Promisense Co., Ltd. NDIR Sensors Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.23.5 Suzhou Promisense Co., Ltd. Recent Developments/Updates
 - 7.23.6 Suzhou Promisense Co., Ltd. Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

- 8.1 NDIR Sensors Industry Chain
- 8.2 NDIR Sensors Upstream Analysis
 - 8.2.1 NDIR Sensors Core Raw Materials
 - 8.2.2 Main Manufacturers of NDIR Sensors Core Raw Materials
- 8.3 Midstream Analysis
- 8.4 Downstream Analysis
- 8.5 NDIR Sensors Production Mode
- 8.6 NDIR Sensors Procurement Model
- 8.7 NDIR Sensors Industry Sales Model and Sales Channels
 - 8.7.1 NDIR Sensors Sales Model
 - 8.7.2 NDIR Sensors Typical Customers

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

- 10.1 Methodology
- 10.2 Research Process and Data Source
- 10.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World NDIR Sensors Production Value by Region (2018, 2022 and 2029) & (USD Million)
- Table 2. World NDIR Sensors Production Value by Region (2018-2023) & (USD Million)
- Table 3. World NDIR Sensors Production Value by Region (2024-2029) & (USD Million)
- Table 4. World NDIR Sensors Production Value Market Share by Region (2018-2023)
- Table 5. World NDIR Sensors Production Value Market Share by Region (2024-2029)
- Table 6. World NDIR Sensors Production by Region (2018-2023) & (K Units)
- Table 7. World NDIR Sensors Production by Region (2024-2029) & (K Units)
- Table 8. World NDIR Sensors Production Market Share by Region (2018-2023)
- Table 9. World NDIR Sensors Production Market Share by Region (2024-2029)
- Table 10. World NDIR Sensors Average Price by Region (2018-2023) & (US\$/Unit)
- Table 11. World NDIR Sensors Average Price by Region (2024-2029) & (US\$/Unit)
- Table 12. NDIR Sensors Major Market Trends
- Table 13. World NDIR Sensors Consumption Growth Rate Forecast by Region (2018 & 2022 & 2029) & (K Units)
- Table 14. World NDIR Sensors Consumption by Region (2018-2023) & (K Units)
- Table 15. World NDIR Sensors Consumption Forecast by Region (2024-2029) & (K Units)
- Table 16. World NDIR Sensors Production Value by Manufacturer (2018-2023) & (USD Million)
- Table 17. Production Value Market Share of Key NDIR Sensors Producers in 2022
- Table 18. World NDIR Sensors Production by Manufacturer (2018-2023) & (K Units)
- Table 19. Production Market Share of Key NDIR Sensors Producers in 2022
- Table 20. World NDIR Sensors Average Price by Manufacturer (2018-2023) & (US\$/Unit)
- Table 21. Global NDIR Sensors Company Evaluation Quadrant
- Table 22. World NDIR Sensors Industry Rank of Major Manufacturers, Based on Production Value in 2022
- Table 23. Head Office and NDIR Sensors Production Site of Key Manufacturer
- Table 24. NDIR Sensors Market: Company Product Type Footprint
- Table 25. NDIR Sensors Market: Company Product Application Footprint
- Table 26. NDIR Sensors Competitive Factors
- Table 27. NDIR Sensors New Entrant and Capacity Expansion Plans
- Table 28. NDIR Sensors Mergers & Acquisitions Activity
- Table 29. United States VS China NDIR Sensors Production Value Comparison, (2018

& 2022 & 2029) & (USD Million)

Table 30. United States VS China NDIR Sensors Production Comparison, (2018 & 2022 & 2029) & (K Units)

Table 31. United States VS China NDIR Sensors Consumption Comparison, (2018 & 2022 & 2029) & (K Units)

Table 32. United States Based NDIR Sensors Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers NDIR Sensors Production Value, (2018-2023) & (USD Million)

Table 34. United States Based Manufacturers NDIR Sensors Production Value Market Share (2018-2023)

Table 35. United States Based Manufacturers NDIR Sensors Production (2018-2023) & (K Units)

Table 36. United States Based Manufacturers NDIR Sensors Production Market Share (2018-2023)

Table 37. China Based NDIR Sensors Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers NDIR Sensors Production Value, (2018-2023) & (USD Million)

Table 39. China Based Manufacturers NDIR Sensors Production Value Market Share (2018-2023)

Table 40. China Based Manufacturers NDIR Sensors Production (2018-2023) & (K Units)

Table 41. China Based Manufacturers NDIR Sensors Production Market Share (2018-2023)

Table 42. Rest of World Based NDIR Sensors Manufacturers, Headquarters and Production Site (States, Country)

Table 43. Rest of World Based Manufacturers NDIR Sensors Production Value, (2018-2023) & (USD Million)

Table 44. Rest of World Based Manufacturers NDIR Sensors Production Value Market Share (2018-2023)

Table 45. Rest of World Based Manufacturers NDIR Sensors Production (2018-2023) & (K Units)

Table 46. Rest of World Based Manufacturers NDIR Sensors Production Market Share (2018-2023)

Table 47. World NDIR Sensors Production Value by Type, (USD Million), 2018 & 2022 & 2029

Table 48. World NDIR Sensors Production by Type (2018-2023) & (K Units)

Table 49. World NDIR Sensors Production by Type (2024-2029) & (K Units)

Table 50. World NDIR Sensors Production Value by Type (2018-2023) & (USD Million)

Table 51. World NDIR Sensors Production Value by Type (2024-2029) & (USD Million)

Table 52. World NDIR Sensors Average Price by Type (2018-2023) & (US\$/Unit)

Table 53. World NDIR Sensors Average Price by Type (2024-2029) & (US\$/Unit)

Table 54. World NDIR Sensors Production Value by Application, (USD Million), 2018 & 2022 & 2029

Table 55. World NDIR Sensors Production by Application (2018-2023) & (K Units)

Table 56. World NDIR Sensors Production by Application (2024-2029) & (K Units)

Table 57. World NDIR Sensors Production Value by Application (2018-2023) & (USD Million)

Table 58. World NDIR Sensors Production Value by Application (2024-2029) & (USD Million)

Table 59. World NDIR Sensors Average Price by Application (2018-2023) & (US\$/Unit)

Table 60. World NDIR Sensors Average Price by Application (2024-2029) & (US\$/Unit)

Table 61. Amphenol Advanced Sensors Basic Information, Manufacturing Base and Competitors

Table 62. Amphenol Advanced Sensors Major Business

Table 63. Amphenol Advanced Sensors NDIR Sensors Product and Services

Table 64. Amphenol Advanced Sensors NDIR Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 65. Amphenol Advanced Sensors Recent Developments/Updates

Table 66. Amphenol Advanced Sensors Competitive Strengths & Weaknesses

Table 67. Senseair (Asahi Kasei Microdevices) Basic Information, Manufacturing Base and Competitors

Table 68. Senseair (Asahi Kasei Microdevices) Major Business

Table 69. Senseair (Asahi Kasei Microdevices) NDIR Sensors Product and Services

Table 70. Senseair (Asahi Kasei Microdevices) NDIR Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 71. Senseair (Asahi Kasei Microdevices) Recent Developments/Updates

Table 72. Senseair (Asahi Kasei Microdevices) Competitive Strengths & Weaknesses

Table 73. Murata Basic Information, Manufacturing Base and Competitors

Table 74. Murata Major Business

Table 75. Murata NDIR Sensors Product and Services

Table 76. Murata NDIR Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. Murata Recent Developments/Updates

Table 78. Murata Competitive Strengths & Weaknesses

- Table 79. Sensirion Basic Information, Manufacturing Base and Competitors
- Table 80. Sensirion Major Business
- Table 81. Sensirion NDIR Sensors Product and Services
- Table 82. Sensirion NDIR Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 83. Sensirion Recent Developments/Updates
- Table 84. Sensirion Competitive Strengths & Weaknesses
- Table 85. MKS Instruments Basic Information, Manufacturing Base and Competitors
- Table 86. MKS Instruments Major Business
- Table 87. MKS Instruments NDIR Sensors Product and Services
- Table 88. MKS Instruments NDIR Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 89. MKS Instruments Recent Developments/Updates
- Table 90. MKS Instruments Competitive Strengths & Weaknesses
- Table 91. Vaisala Basic Information, Manufacturing Base and Competitors
- Table 92. Vaisala Major Business
- Table 93. Vaisala NDIR Sensors Product and Services
- Table 94. Vaisala NDIR Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 95. Vaisala Recent Developments/Updates
- Table 96. Vaisala Competitive Strengths & Weaknesses
- Table 97. Teledyne API Basic Information, Manufacturing Base and Competitors
- Table 98. Teledyne API Major Business
- Table 99. Teledyne API NDIR Sensors Product and Services
- Table 100. Teledyne API NDIR Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 101. Teledyne API Recent Developments/Updates
- Table 102. Teledyne API Competitive Strengths & Weaknesses
- Table 103. Honeywell Basic Information, Manufacturing Base and Competitors
- Table 104. Honeywell Major Business
- Table 105. Honeywell NDIR Sensors Product and Services
- Table 106. Honeywell NDIR Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 107. Honeywell Recent Developments/Updates
- Table 108. Honeywell Competitive Strengths & Weaknesses
- Table 109. ELT SENSOR Basic Information, Manufacturing Base and Competitors
- Table 110. ELT SENSOR Major Business
- Table 111. ELT SENSOR NDIR Sensors Product and Services
- Table 112. ELT SENSOR NDIR Sensors Production (K Units), Price (US\$/Unit),

Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 113. ELT SENSOR Recent Developments/Updates

Table 114. ELT SENSOR Competitive Strengths & Weaknesses

Table 115. E+E Basic Information, Manufacturing Base and Competitors

Table 116. E+E Major Business

Table 117. E+E NDIR Sensors Product and Services

Table 118. E+E NDIR Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 119. E+E Recent Developments/Updates

Table 120. E+E Competitive Strengths & Weaknesses

Table 121. Dwyer Instruments Basic Information, Manufacturing Base and Competitors

Table 122. Dwyer Instruments Major Business

Table 123. Dwyer Instruments NDIR Sensors Product and Services

Table 124. Dwyer Instruments NDIR Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 125. Dwyer Instruments Recent Developments/Updates

Table 126. Dwyer Instruments Competitive Strengths & Weaknesses

Table 127. Trane Basic Information, Manufacturing Base and Competitors

Table 128. Trane Major Business

Table 129. Trane NDIR Sensors Product and Services

Table 130. Trane NDIR Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 131. Trane Recent Developments/Updates

Table 132. Trane Competitive Strengths & Weaknesses

Table 133. Micro-Hybrid Basic Information, Manufacturing Base and Competitors

Table 134. Micro-Hybrid Major Business

Table 135. Micro-Hybrid NDIR Sensors Product and Services

Table 136. Micro-Hybrid NDIR Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 137. Micro-Hybrid Recent Developments/Updates

Table 138. Micro-Hybrid Competitive Strengths & Weaknesses

Table 139. Edinburgh Instruments Basic Information, Manufacturing Base and Competitors

Table 140. Edinburgh Instruments Major Business

Table 141. Edinburgh Instruments NDIR Sensors Product and Services

Table 142. Edinburgh Instruments NDIR Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 143. Edinburgh Instruments Recent Developments/Updates

- Table 144. Edinburgh Instruments Competitive Strengths & Weaknesses
- Table 145. Alphasense Basic Information, Manufacturing Base and Competitors
- Table 146. Alphasense Major Business
- Table 147. Alphasense NDIR Sensors Product and Services
- Table 148. Alphasense NDIR Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 149. Alphasense Recent Developments/Updates
- Table 150. Alphasense Competitive Strengths & Weaknesses
- Table 151. Cubic Sensor and Instrument Co.,Ltd Basic Information, Manufacturing Base and Competitors
- Table 152. Cubic Sensor and Instrument Co.,Ltd Major Business
- Table 153. Cubic Sensor and Instrument Co.,Ltd NDIR Sensors Product and Services
- Table 154. Cubic Sensor and Instrument Co.,Ltd NDIR Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 155. Cubic Sensor and Instrument Co.,Ltd Recent Developments/Updates
- Table 156. Cubic Sensor and Instrument Co.,Ltd Competitive Strengths & Weaknesses
- Table 157. Nano Environmental Technology S.r.l. (N.E.T.) Basic Information, Manufacturing Base and Competitors
- Table 158. Nano Environmental Technology S.r.l. (N.E.T.) Major Business
- Table 159. Nano Environmental Technology S.r.l. (N.E.T.) NDIR Sensors Product and Services
- Table 160. Nano Environmental Technology S.r.l. (N.E.T.) NDIR Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 161. Nano Environmental Technology S.r.l. (N.E.T.) Recent Developments/Updates
- Table 162. Nano Environmental Technology S.r.l. (N.E.T.) Competitive Strengths & Weaknesses
- Table 163. Super Systems Basic Information, Manufacturing Base and Competitors
- Table 164. Super Systems Major Business
- Table 165. Super Systems NDIR Sensors Product and Services
- Table 166. Super Systems NDIR Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 167. Super Systems Recent Developments/Updates
- Table 168. Super Systems Competitive Strengths & Weaknesses
- Table 169. ORIENTAL SYSTEM TECHNOLOGY INC. Basic Information, Manufacturing Base and Competitors
- Table 170. ORIENTAL SYSTEM TECHNOLOGY INC. Major Business

Table 171. ORIENTAL SYSTEM TECHNOLOGY INC. NDIR Sensors Product and Services

Table 172. ORIENTAL SYSTEM TECHNOLOGY INC. NDIR Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 173. ORIENTAL SYSTEM TECHNOLOGY INC. Recent Developments/Updates

Table 174. ORIENTAL SYSTEM TECHNOLOGY INC. Competitive Strengths & Weaknesses

Table 175. smartGAS Mikrosensorik GmbH Basic Information, Manufacturing Base and Competitors

Table 176. smartGAS Mikrosensorik GmbH Major Business

Table 177. smartGAS Mikrosensorik GmbH NDIR Sensors Product and Services

Table 178. smartGAS Mikrosensorik GmbH NDIR Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 179. smartGAS Mikrosensorik GmbH Recent Developments/Updates

Table 180. smartGAS Mikrosensorik GmbH Competitive Strengths & Weaknesses

Table 181. SST Sensing Ltd Basic Information, Manufacturing Base and Competitors

Table 182. SST Sensing Ltd Major Business

Table 183. SST Sensing Ltd NDIR Sensors Product and Services

Table 184. SST Sensing Ltd NDIR Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 185. SST Sensing Ltd Recent Developments/Updates

Table 186. SST Sensing Ltd Competitive Strengths & Weaknesses

Table 187. Winsen Basic Information, Manufacturing Base and Competitors

Table 188. Winsen Major Business

Table 189. Winsen NDIR Sensors Product and Services

Table 190. Winsen NDIR Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 191. Winsen Recent Developments/Updates

Table 192. Suzhou Promisense Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 193. Suzhou Promisense Co., Ltd. Major Business

Table 194. Suzhou Promisense Co., Ltd. NDIR Sensors Product and Services

Table 195. Suzhou Promisense Co., Ltd. NDIR Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 196. Global Key Players of NDIR Sensors Upstream (Raw Materials)

Table 197. NDIR Sensors Typical Customers

Table 198. NDIR Sensors Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. NDIR Sensors Picture

Figure 2. World NDIR Sensors Production Value: 2018 & 2022 & 2029, (USD Million)

Figure 3. World NDIR Sensors Production Value and Forecast (2018-2029) & (USD Million)

Figure 4. World NDIR Sensors Production (2018-2029) & (K Units)

Figure 5. World NDIR Sensors Average Price (2018-2029) & (US\$/Unit)

Figure 6. World NDIR Sensors Production Value Market Share by Region (2018-2029)

Figure 7. World NDIR Sensors Production Market Share by Region (2018-2029)

Figure 8. North America NDIR Sensors Production (2018-2029) & (K Units)

Figure 9. Europe NDIR Sensors Production (2018-2029) & (K Units)

Figure 10. China NDIR Sensors Production (2018-2029) & (K Units)

Figure 11. Japan NDIR Sensors Production (2018-2029) & (K Units)

Figure 12. South Korea NDIR Sensors Production (2018-2029) & (K Units)

Figure 13. India NDIR Sensors Production (2018-2029) & (K Units)

Figure 14. Southeast Asia NDIR Sensors Production (2018-2029) & (K Units)

Figure 15. NDIR Sensors Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World NDIR Sensors Consumption (2018-2029) & (K Units)

Figure 18. World NDIR Sensors Consumption Market Share by Region (2018-2029)

Figure 19. United States NDIR Sensors Consumption (2018-2029) & (K Units)

Figure 20. China NDIR Sensors Consumption (2018-2029) & (K Units)

Figure 21. Europe NDIR Sensors Consumption (2018-2029) & (K Units)

Figure 22. Japan NDIR Sensors Consumption (2018-2029) & (K Units)

Figure 23. South Korea NDIR Sensors Consumption (2018-2029) & (K Units)

Figure 24. ASEAN NDIR Sensors Consumption (2018-2029) & (K Units)

Figure 25. India NDIR Sensors Consumption (2018-2029) & (K Units)

Figure 26. Producer Shipments of NDIR Sensors by Manufacturer Revenue (\$MM) and Market Share (%): 2022

Figure 27. Global Four-firm Concentration Ratios (CR4) for NDIR Sensors Markets in 2022

Figure 28. Global Four-firm Concentration Ratios (CR8) for NDIR Sensors Markets in 2022

Figure 29. United States VS China: NDIR Sensors Production Value Market Share Comparison (2018 & 2022 & 2029)

Figure 30. United States VS China: NDIR Sensors Production Market Share

Comparison (2018 & 2022 & 2029)

Figure 31. United States VS China: NDIR Sensors Consumption Market Share

Comparison (2018 & 2022 & 2029)

Figure 32. United States Based Manufacturers NDIR Sensors Production Market Share 2022

Figure 33. China Based Manufacturers NDIR Sensors Production Market Share 2022

Figure 34. Rest of World Based Manufacturers NDIR Sensors Production Market Share 2022

Figure 35. World NDIR Sensors Production Value by Type, (USD Million), 2018 & 2022 & 2029

Figure 36. World NDIR Sensors Production Value Market Share by Type in 2022

Figure 37. NDIR CO₂ Sensors

Figure 38. NDIR Methane (CH₄) Gas Sensors

Figure 39. NDIR CO Sensors

Figure 40. NDIR Propane Gas Sensors

Figure 41. NDIR Refrigerant Gases Sensors

Figure 42. NDIR Ethylene Gases Sensors

Figure 43. NDIR SF₆ Infrared Sensors

Figure 44. Others

Figure 45. World NDIR Sensors Production Market Share by Type (2018-2029)

Figure 46. World NDIR Sensors Production Value Market Share by Type (2018-2029)

Figure 47. World NDIR Sensors Average Price by Type (2018-2029) & (US\$/Unit)

Figure 48. World NDIR Sensors Production Value by Application, (USD Million), 2018 & 2022 & 2029

Figure 49. World NDIR Sensors Production Value Market Share by Application in 2022

Figure 50. Industrial Safety

Figure 51. Environmental Protection Industry

Figure 52. Medical Industry

Figure 53. Residential and Commercial Security

Figure 54. Power Industry

Figure 55. Automobile Industry

Figure 56. Research Institutions

Figure 57. Others

Figure 58. World NDIR Sensors Production Market Share by Application (2018-2029)

Figure 59. World NDIR Sensors Production Value Market Share by Application (2018-2029)

Figure 60. World NDIR Sensors Average Price by Application (2018-2029) & (US\$/Unit)

Figure 61. NDIR Sensors Industry Chain

Figure 62. NDIR Sensors Procurement Model

Figure 63. NDIR Sensors Sales Model

Figure 64. NDIR Sensors Sales Channels, Direct Sales, and Distribution

Figure 65. Methodology

Figure 66. Research Process and Data Source

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