

Global Humidity Sensors Market Growth 2026-2032

<https://marketpublishers.com/r/GA6EFB81C5C4EN.html>

Date: May 2026

Pages: 99

Price: US\$ 3,660.00 (Single User License)

ID: GA6EFB81C5C4EN

Abstracts

The global Humidity Sensors market size is predicted to grow from US\$ 567 million in 2025 to US\$ 982 million in 2032; it is expected to grow at a CAGR of 8.2% from 2026 to 2032.

In 2025, global humidity sensor production capacity is about 13 million units, with actual production reaching approximately 9.7 million units. The average global market price is around US\$ 6 per unit. The market gross margin mainly ranges between 30% and 45%. A humidity sensor is an electronic sensing device designed to detect and measure the amount of water vapor present in the air or gas environment. It converts humidity levels into electrical signals that can be processed by monitoring systems or control units. Common measurement parameters include relative humidity (RH), absolute humidity, and dew point. Humidity sensors typically utilize sensing technologies such as capacitive, resistive, or thermal conductivity principles. These sensors are widely used in environmental monitoring, HVAC systems, industrial automation, consumer electronics, agriculture, medical equipment, and smart home applications. By providing accurate humidity data, humidity sensors help maintain environmental stability, improve energy efficiency, and ensure product quality in humidity-sensitive processes.

The upstream of the humidity sensor industry mainly includes semiconductor materials, sensing elements, substrates, packaging materials, and electronic components such as integrated circuits and microcontrollers. These components determine the sensor's sensitivity, accuracy, and long-term stability. The midstream involves sensor design, microfabrication, wafer processing, packaging, and calibration processes. Advanced manufacturing technologies are essential to ensure measurement precision and reliability. The downstream applications cover a wide range of industries, including HVAC systems, industrial automation, environmental monitoring equipment, smart home devices, consumer electronics, agricultural monitoring systems, and medical equipment. With the rapid growth of IoT and smart devices, humidity sensors are

increasingly integrated into various connected systems, expanding their application scenarios.

The humidity sensor market is experiencing strong growth driven by the rapid expansion of IoT devices, smart home systems, and environmental monitoring technologies. Accurate humidity monitoring has become increasingly important in both industrial and consumer applications, creating sustained demand for reliable sensing devices. One of the key drivers is the growth of smart building and HVAC systems. Modern buildings require precise environmental monitoring to improve energy efficiency and indoor comfort. Humidity sensors are widely used to regulate ventilation, heating, and air conditioning systems. Another major growth factor is the increasing integration of sensors into consumer electronics and IoT devices. Smartphones, wearable devices, smart appliances, and agricultural monitoring systems are increasingly equipped with humidity sensing functions. In addition, industrial sectors such as pharmaceuticals, food processing, and semiconductor manufacturing require strict humidity control to maintain product quality. These factors collectively support the long-term expansion of the global humidity sensor market.

LP Information, Inc. (LPI) ' newest research report, the "Humidity Sensors Industry Forecast" looks at past sales and reviews total world Humidity Sensors sales in 2025, providing a comprehensive analysis by region and market sector of projected Humidity Sensors sales for 2026 through 2032. With Humidity Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Humidity Sensors industry.

This Insight Report provides a comprehensive analysis of the global Humidity Sensors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Humidity Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Humidity Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Humidity Sensors and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Humidity Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Humidity Sensors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Capacitive Humidity Sensor

Resistive Humidity Sensor

Thermal Conductivity Humidity Sensor

Segmentation by Output Signal:

Analog Humidity Sensor

Digital Humidity Sensor

Segmentation by Integration Level:

Standalone Humidity Sensors

Humidity Sensor Integrated with Temperature

Segmentation by Application:

Petrochemical Industry

Pharmaceutical Industry

Food Industry

Other Industries

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Sensirion

Continental

Honeywell

Hitachi

Infineon Technologies

Delphi

Melexis Microelectronic

Bosch Sensortec

Humirel

Syhitech

Key Questions Addressed in this Report

What is the 10-year outlook for the global Humidity Sensors market?

What factors are driving Humidity Sensors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Humidity Sensors market opportunities vary by end market size?

How does Humidity Sensors break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Humidity Sensors Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Humidity Sensors by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Humidity Sensors by Country/Region, 2021, 2025 & 2032

2.2 Humidity Sensors Segment by Type

- 2.2.1 Capacitive Humidity Sensor
- 2.2.2 Resistive Humidity Sensor
- 2.2.3 Thermal Conductivity Humidity Sensor
- 2.2.4 Humidity Sensors Sales by Type
 - 2.2.4.1 Global Humidity Sensors Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Humidity Sensors Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Humidity Sensors Sale Price by Type (2021-2026)

2.3 Humidity Sensors Segment by Output Signal

- 2.3.1 Analog Humidity Sensor
- 2.3.2 Digital Humidity Sensor
- 2.3.3 Humidity Sensors Sales by Output Signal
 - 2.3.3.1 Global Humidity Sensors Sales Market Share by Output Signal (2021-2026)
 - 2.3.3.2 Global Humidity Sensors Revenue and Market Share by Output Signal (2021-2026)
 - 2.3.3.3 Global Humidity Sensors Sale Price by Output Signal (2021-2026)

2.4 Humidity Sensors Segment by Integration Level

- 2.4.1 Standalone Humidity Sensors

2.4.2 Humidity Sensor Integrated with Temperature

2.4.3 Humidity Sensors Sales by Integration Level

2.4.3.1 Global Humidity Sensors Sales Market Share by Integration Level
(2021-2026)

2.4.3.2 Global Humidity Sensors Revenue and Market Share by Integration Level
(2021-2026)

2.4.3.3 Global Humidity Sensors Sale Price by Integration Level (2021-2026)

2.5 Humidity Sensors Segment by Application

2.5.1 Petrochemical Industry

2.5.2 Pharmaceutical Industry

2.5.3 Food Industry

2.5.4 Other Industries

2.5.5 Humidity Sensors Sales by Application

2.5.5.1 Global Humidity Sensors Sale Market Share by Application (2021-2026)

2.5.5.2 Global Humidity Sensors Revenue and Market Share by Application
(2021-2026)

2.5.5.3 Global Humidity Sensors Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Humidity Sensors Breakdown Data by Company

3.1.1 Global Humidity Sensors Annual Sales by Company (2021-2026)

3.1.2 Global Humidity Sensors Sales Market Share by Company (2021-2026)

3.2 Global Humidity Sensors Annual Revenue by Company (2021-2026)

3.2.1 Global Humidity Sensors Revenue by Company (2021-2026)

3.2.2 Global Humidity Sensors Revenue Market Share by Company (2021-2026)

3.3 Global Humidity Sensors Sale Price by Company

3.4 Key Manufacturers Humidity Sensors Producing Area Distribution, Sales Area,
Product Type

3.4.1 Key Manufacturers Humidity Sensors Product Location Distribution

3.4.2 Players Humidity Sensors Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR HUMIDITY SENSORS BY GEOGRAPHIC REGION

- 4.1 World Historic Humidity Sensors Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Humidity Sensors Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Humidity Sensors Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Humidity Sensors Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Humidity Sensors Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Humidity Sensors Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Humidity Sensors Sales Growth
- 4.4 APAC Humidity Sensors Sales Growth
- 4.5 Europe Humidity Sensors Sales Growth
- 4.6 Middle East & Africa Humidity Sensors Sales Growth

5 AMERICAS

- 5.1 Americas Humidity Sensors Sales by Country
 - 5.1.1 Americas Humidity Sensors Sales by Country (2021-2026)
 - 5.1.2 Americas Humidity Sensors Revenue by Country (2021-2026)
- 5.2 Americas Humidity Sensors Sales by Type (2021-2026)
- 5.3 Americas Humidity Sensors Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Humidity Sensors Sales by Region
 - 6.1.1 APAC Humidity Sensors Sales by Region (2021-2026)
 - 6.1.2 APAC Humidity Sensors Revenue by Region (2021-2026)
- 6.2 APAC Humidity Sensors Sales by Type (2021-2026)
- 6.3 APAC Humidity Sensors Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

7.1 Europe Humidity Sensors by Country

7.1.1 Europe Humidity Sensors Sales by Country (2021-2026)

7.1.2 Europe Humidity Sensors Revenue by Country (2021-2026)

7.2 Europe Humidity Sensors Sales by Type (2021-2026)

7.3 Europe Humidity Sensors Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Humidity Sensors by Country

8.1.1 Middle East & Africa Humidity Sensors Sales by Country (2021-2026)

8.1.2 Middle East & Africa Humidity Sensors Revenue by Country (2021-2026)

8.2 Middle East & Africa Humidity Sensors Sales by Type (2021-2026)

8.3 Middle East & Africa Humidity Sensors Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Humidity Sensors

10.3 Manufacturing Process Analysis of Humidity Sensors

10.4 Industry Chain Structure of Humidity Sensors

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Humidity Sensors Distributors

11.3 Humidity Sensors Customer

12 WORLD FORECAST REVIEW FOR HUMIDITY SENSORS BY GEOGRAPHIC REGION

12.1 Global Humidity Sensors Market Size Forecast by Region

12.1.1 Global Humidity Sensors Forecast by Region (2027-2032)

12.1.2 Global Humidity Sensors Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Humidity Sensors Forecast by Type (2027-2032)

12.7 Global Humidity Sensors Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Sensirion

13.1.1 Sensirion Company Information

13.1.2 Sensirion Humidity Sensors Product Portfolios and Specifications

13.1.3 Sensirion Humidity Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Sensirion Main Business Overview

13.1.5 Sensirion Latest Developments

13.2 Continental

13.2.1 Continental Company Information

13.2.2 Continental Humidity Sensors Product Portfolios and Specifications

13.2.3 Continental Humidity Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Continental Main Business Overview

13.2.5 Continental Latest Developments

13.3 Honeywell

13.3.1 Honeywell Company Information

- 13.3.2 Honeywell Humidity Sensors Product Portfolios and Specifications
- 13.3.3 Honeywell Humidity Sensors Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.3.4 Honeywell Main Business Overview
- 13.3.5 Honeywell Latest Developments
- 13.4 Hitachi
 - 13.4.1 Hitachi Company Information
 - 13.4.2 Hitachi Humidity Sensors Product Portfolios and Specifications
 - 13.4.3 Hitachi Humidity Sensors Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Hitachi Main Business Overview
 - 13.4.5 Hitachi Latest Developments
- 13.5 Infineon Technologies
 - 13.5.1 Infineon Technologies Company Information
 - 13.5.2 Infineon Technologies Humidity Sensors Product Portfolios and Specifications
 - 13.5.3 Infineon Technologies Humidity Sensors Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Infineon Technologies Main Business Overview
 - 13.5.5 Infineon Technologies Latest Developments
- 13.6 Delphi
 - 13.6.1 Delphi Company Information
 - 13.6.2 Delphi Humidity Sensors Product Portfolios and Specifications
 - 13.6.3 Delphi Humidity Sensors Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Delphi Main Business Overview
 - 13.6.5 Delphi Latest Developments
- 13.7 Melexis Microelectronic
 - 13.7.1 Melexis Microelectronic Company Information
 - 13.7.2 Melexis Microelectronic Humidity Sensors Product Portfolios and Specifications
 - 13.7.3 Melexis Microelectronic Humidity Sensors Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Melexis Microelectronic Main Business Overview
 - 13.7.5 Melexis Microelectronic Latest Developments
- 13.8 Bosch Sensortec
 - 13.8.1 Bosch Sensortec Company Information
 - 13.8.2 Bosch Sensortec Humidity Sensors Product Portfolios and Specifications
 - 13.8.3 Bosch Sensortec Humidity Sensors Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Bosch Sensortec Main Business Overview
 - 13.8.5 Bosch Sensortec Latest Developments
- 13.9 Humirel

13.9.1 Humirel Company Information

13.9.2 Humirel Humidity Sensors Product Portfolios and Specifications

13.9.3 Humirel Humidity Sensors Sales, Revenue, Price and Gross Margin
(2021-2026)

13.9.4 Humirel Main Business Overview

13.9.5 Humirel Latest Developments

13.10 Syhitech

13.10.1 Syhitech Company Information

13.10.2 Syhitech Humidity Sensors Product Portfolios and Specifications

13.10.3 Syhitech Humidity Sensors Sales, Revenue, Price and Gross Margin
(2021-2026)

13.10.4 Syhitech Main Business Overview

13.10.5 Syhitech Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Humidity Sensors Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Humidity Sensors Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Capacitive Humidity Sensor

Table 4. Major Players of Resistive Humidity Sensor

Table 5. Major Players of Thermal Conductivity Humidity Sensor

Table 6. Global Humidity Sensors Sales by Type (2021-2026) & (K Units)

Table 7. Global Humidity Sensors Sales Market Share by Type (2021-2026)

Table 8. Global Humidity Sensors Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Humidity Sensors Revenue Market Share by Type (2021-2026)

Table 10. Global Humidity Sensors Sale Price by Type (2021-2026) & (US\$/Unit)

Table 11. Major Players of Analog Humidity Sensor

Table 12. Major Players of Digital Humidity Sensor

Table 13. Global Humidity Sensors Sales by Output Signal (2021-2026) & (K Units)

Table 14. Global Humidity Sensors Sales Market Share by Output Signal (2021-2026)

Table 15. Global Humidity Sensors Revenue by Output Signal (2021-2026) & (\$ million)

Table 16. Global Humidity Sensors Revenue Market Share by Output Signal (2021-2026)

Table 17. Global Humidity Sensors Sale Price by Output Signal (2021-2026) & (US\$/Unit)

Table 18. Major Players of Standalone Humidity Sensors

Table 19. Major Players of Humidity Sensor Integrated with Temperature

Table 20. Global Humidity Sensors Sales by Integration Level (2021-2026) & (K Units)

Table 21. Global Humidity Sensors Sales Market Share by Integration Level (2021-2026)

Table 22. Global Humidity Sensors Revenue by Integration Level (2021-2026) & (\$ million)

Table 23. Global Humidity Sensors Revenue Market Share by Integration Level (2021-2026)

Table 24. Global Humidity Sensors Sale Price by Integration Level (2021-2026) & (US\$/Unit)

Table 25. Global Humidity Sensors Sale by Application (2021-2026) & (K Units)

Table 26. Global Humidity Sensors Sale Market Share by Application (2021-2026)

Table 27. Global Humidity Sensors Revenue by Application (2021-2026) & (\$ million)

Table 28. Global Humidity Sensors Revenue Market Share by Application (2021-2026)
Table 29. Global Humidity Sensors Sale Price by Application (2021-2026) & (US\$/Unit)
Table 30. Global Humidity Sensors Sales by Company (2021-2026) & (K Units)
Table 31. Global Humidity Sensors Sales Market Share by Company (2021-2026)
Table 32. Global Humidity Sensors Revenue by Company (2021-2026) & (\$ millions)
Table 33. Global Humidity Sensors Revenue Market Share by Company (2021-2026)
Table 34. Global Humidity Sensors Sale Price by Company (2021-2026) & (US\$/Unit)
Table 35. Key Manufacturers Humidity Sensors Producing Area Distribution and Sales Area
Table 36. Players Humidity Sensors Products Offered
Table 37. Humidity Sensors Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 38. New Products and Potential Entrants
Table 39. Market M&A Activity & Strategy
Table 40. Global Humidity Sensors Sales by Geographic Region (2021-2026) & (K Units)
Table 41. Global Humidity Sensors Sales Market Share Geographic Region (2021-2026)
Table 42. Global Humidity Sensors Revenue by Geographic Region (2021-2026) & (\$ millions)
Table 43. Global Humidity Sensors Revenue Market Share by Geographic Region (2021-2026)
Table 44. Global Humidity Sensors Sales by Country/Region (2021-2026) & (K Units)
Table 45. Global Humidity Sensors Sales Market Share by Country/Region (2021-2026)
Table 46. Global Humidity Sensors Revenue by Country/Region (2021-2026) & (\$ millions)
Table 47. Global Humidity Sensors Revenue Market Share by Country/Region (2021-2026)
Table 48. Americas Humidity Sensors Sales by Country (2021-2026) & (K Units)
Table 49. Americas Humidity Sensors Sales Market Share by Country (2021-2026)
Table 50. Americas Humidity Sensors Revenue by Country (2021-2026) & (\$ millions)
Table 51. Americas Humidity Sensors Sales by Type (2021-2026) & (K Units)
Table 52. Americas Humidity Sensors Sales by Application (2021-2026) & (K Units)
Table 53. APAC Humidity Sensors Sales by Region (2021-2026) & (K Units)
Table 54. APAC Humidity Sensors Sales Market Share by Region (2021-2026)
Table 55. APAC Humidity Sensors Revenue by Region (2021-2026) & (\$ millions)
Table 56. APAC Humidity Sensors Sales by Type (2021-2026) & (K Units)
Table 57. APAC Humidity Sensors Sales by Application (2021-2026) & (K Units)
Table 58. Europe Humidity Sensors Sales by Country (2021-2026) & (K Units)
Table 59. Europe Humidity Sensors Revenue by Country (2021-2026) & (\$ millions)

Table 60. Europe Humidity Sensors Sales by Type (2021-2026) & (K Units)
Table 61. Europe Humidity Sensors Sales by Application (2021-2026) & (K Units)
Table 62. Middle East & Africa Humidity Sensors Sales by Country (2021-2026) & (K Units)
Table 63. Middle East & Africa Humidity Sensors Revenue Market Share by Country (2021-2026)
Table 64. Middle East & Africa Humidity Sensors Sales by Type (2021-2026) & (K Units)
Table 65. Middle East & Africa Humidity Sensors Sales by Application (2021-2026) & (K Units)
Table 66. Key Market Drivers & Growth Opportunities of Humidity Sensors
Table 67. Key Market Challenges & Risks of Humidity Sensors
Table 68. Key Industry Trends of Humidity Sensors
Table 69. Humidity Sensors Raw Material
Table 70. Key Suppliers of Raw Materials
Table 71. Humidity Sensors Distributors List
Table 72. Humidity Sensors Customer List
Table 73. Global Humidity Sensors Sales Forecast by Region (2027-2032) & (K Units)
Table 74. Global Humidity Sensors Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 75. Americas Humidity Sensors Sales Forecast by Country (2027-2032) & (K Units)
Table 76. Americas Humidity Sensors Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 77. APAC Humidity Sensors Sales Forecast by Region (2027-2032) & (K Units)
Table 78. APAC Humidity Sensors Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 79. Europe Humidity Sensors Sales Forecast by Country (2027-2032) & (K Units)
Table 80. Europe Humidity Sensors Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 81. Middle East & Africa Humidity Sensors Sales Forecast by Country (2027-2032) & (K Units)
Table 82. Middle East & Africa Humidity Sensors Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 83. Global Humidity Sensors Sales Forecast by Type (2027-2032) & (K Units)
Table 84. Global Humidity Sensors Revenue Forecast by Type (2027-2032) & (\$ millions)
Table 85. Global Humidity Sensors Sales Forecast by Application (2027-2032) & (K Units)

Table 86. Global Humidity Sensors Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 87. Sensirion Basic Information, Humidity Sensors Manufacturing Base, Sales Area and Its Competitors

Table 88. Sensirion Humidity Sensors Product Portfolios and Specifications

Table 89. Sensirion Humidity Sensors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 90. Sensirion Main Business

Table 91. Sensirion Latest Developments

Table 92. Continental Basic Information, Humidity Sensors Manufacturing Base, Sales Area and Its Competitors

Table 93. Continental Humidity Sensors Product Portfolios and Specifications

Table 94. Continental Humidity Sensors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 95. Continental Main Business

Table 96. Continental Latest Developments

Table 97. Honeywell Basic Information, Humidity Sensors Manufacturing Base, Sales Area and Its Competitors

Table 98. Honeywell Humidity Sensors Product Portfolios and Specifications

Table 99. Honeywell Humidity Sensors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 100. Honeywell Main Business

Table 101. Honeywell Latest Developments

Table 102. Hitachi Basic Information, Humidity Sensors Manufacturing Base, Sales Area and Its Competitors

Table 103. Hitachi Humidity Sensors Product Portfolios and Specifications

Table 104. Hitachi Humidity Sensors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 105. Hitachi Main Business

Table 106. Hitachi Latest Developments

Table 107. Infineon Technologies Basic Information, Humidity Sensors Manufacturing Base, Sales Area and Its Competitors

Table 108. Infineon Technologies Humidity Sensors Product Portfolios and Specifications

Table 109. Infineon Technologies Humidity Sensors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 110. Infineon Technologies Main Business

Table 111. Infineon Technologies Latest Developments

Table 112. Delphi Basic Information, Humidity Sensors Manufacturing Base, Sales Area

and Its Competitors

Table 113. Delphi Humidity Sensors Product Portfolios and Specifications

Table 114. Delphi Humidity Sensors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 115. Delphi Main Business

Table 116. Delphi Latest Developments

Table 117. Melexis Microelectronic Basic Information, Humidity Sensors Manufacturing Base, Sales Area and Its Competitors

Table 118. Melexis Microelectronic Humidity Sensors Product Portfolios and Specifications

Table 119. Melexis Microelectronic Humidity Sensors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 120. Melexis Microelectronic Main Business

Table 121. Melexis Microelectronic Latest Developments

Table 122. Bosch Sensortec Basic Information, Humidity Sensors Manufacturing Base, Sales Area and Its Competitors

Table 123. Bosch Sensortec Humidity Sensors Product Portfolios and Specifications

Table 124. Bosch Sensortec Humidity Sensors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 125. Bosch Sensortec Main Business

Table 126. Bosch Sensortec Latest Developments

Table 127. Humirel Basic Information, Humidity Sensors Manufacturing Base, Sales Area and Its Competitors

Table 128. Humirel Humidity Sensors Product Portfolios and Specifications

Table 129. Humirel Humidity Sensors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 130. Humirel Main Business

Table 131. Humirel Latest Developments

Table 132. Syhitech Basic Information, Humidity Sensors Manufacturing Base, Sales Area and Its Competitors

Table 133. Syhitech Humidity Sensors Product Portfolios and Specifications

Table 134. Syhitech Humidity Sensors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 135. Syhitech Main Business

Table 136. Syhitech Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Humidity Sensors
- Figure 2. Humidity Sensors Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Humidity Sensors Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Humidity Sensors Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Humidity Sensors Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Humidity Sensors Sales Market Share by Country/Region (2025)
- Figure 10. Humidity Sensors Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Capacitive Humidity Sensor
- Figure 12. Product Picture of Resistive Humidity Sensor
- Figure 13. Product Picture of Thermal Conductivity Humidity Sensor
- Figure 14. Global Humidity Sensors Sales Market Share by Type in 2026
- Figure 15. Global Humidity Sensors Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Analog Humidity Sensor
- Figure 17. Product Picture of Digital Humidity Sensor
- Figure 18. Global Humidity Sensors Sales Market Share by Output Signal in 2026
- Figure 19. Global Humidity Sensors Revenue Market Share by Output Signal (2021-2026)
- Figure 20. Product Picture of Standalone Humidity Sensors
- Figure 21. Product Picture of Humidity Sensor Integrated with Temperature
- Figure 22. Global Humidity Sensors Sales Market Share by Integration Level in 2026
- Figure 23. Global Humidity Sensors Revenue Market Share by Integration Level (2021-2026)
- Figure 24. Humidity Sensors Consumed in Petrochemical Industry
- Figure 25. Global Humidity Sensors Market: Petrochemical Industry (2021-2026) & (K Units)
- Figure 26. Humidity Sensors Consumed in Pharmaceutical Industry
- Figure 27. Global Humidity Sensors Market: Pharmaceutical Industry (2021-2026) & (K Units)
- Figure 28. Humidity Sensors Consumed in Food Industry
- Figure 29. Global Humidity Sensors Market: Food Industry (2021-2026) & (K Units)

- Figure 30. Humidity Sensors Consumed in Other Industries
- Figure 31. Global Humidity Sensors Market: Other Industries (2021-2026) & (K Units)
- Figure 32. Global Humidity Sensors Sale Market Share by Application (2025)
- Figure 33. Global Humidity Sensors Revenue Market Share by Application in 2025
- Figure 34. Humidity Sensors Sales by Company in 2025 (K Units)
- Figure 35. Global Humidity Sensors Sales Market Share by Company in 2025
- Figure 36. Humidity Sensors Revenue by Company in 2025 (\$ millions)
- Figure 37. Global Humidity Sensors Revenue Market Share by Company in 2025
- Figure 38. Global Humidity Sensors Sales Market Share by Geographic Region (2021-2026)
- Figure 39. Global Humidity Sensors Revenue Market Share by Geographic Region in 2025
- Figure 40. Americas Humidity Sensors Sales 2021-2026 (K Units)
- Figure 41. Americas Humidity Sensors Revenue 2021-2026 (\$ millions)
- Figure 42. APAC Humidity Sensors Sales 2021-2026 (K Units)
- Figure 43. APAC Humidity Sensors Revenue 2021-2026 (\$ millions)
- Figure 44. Europe Humidity Sensors Sales 2021-2026 (K Units)
- Figure 45. Europe Humidity Sensors Revenue 2021-2026 (\$ millions)
- Figure 46. Middle East & Africa Humidity Sensors Sales 2021-2026 (K Units)
- Figure 47. Middle East & Africa Humidity Sensors Revenue 2021-2026 (\$ millions)
- Figure 48. Americas Humidity Sensors Sales Market Share by Country in 2025
- Figure 49. Americas Humidity Sensors Revenue Market Share by Country (2021-2026)
- Figure 50. Americas Humidity Sensors Sales Market Share by Type (2021-2026)
- Figure 51. Americas Humidity Sensors Sales Market Share by Application (2021-2026)
- Figure 52. United States Humidity Sensors Revenue Growth 2021-2026 (\$ millions)
- Figure 53. Canada Humidity Sensors Revenue Growth 2021-2026 (\$ millions)
- Figure 54. Mexico Humidity Sensors Revenue Growth 2021-2026 (\$ millions)
- Figure 55. Brazil Humidity Sensors Revenue Growth 2021-2026 (\$ millions)
- Figure 56. APAC Humidity Sensors Sales Market Share by Region in 2025
- Figure 57. APAC Humidity Sensors Revenue Market Share by Region (2021-2026)
- Figure 58. APAC Humidity Sensors Sales Market Share by Type (2021-2026)
- Figure 59. APAC Humidity Sensors Sales Market Share by Application (2021-2026)
- Figure 60. China Humidity Sensors Revenue Growth 2021-2026 (\$ millions)
- Figure 61. Japan Humidity Sensors Revenue Growth 2021-2026 (\$ millions)
- Figure 62. South Korea Humidity Sensors Revenue Growth 2021-2026 (\$ millions)
- Figure 63. Southeast Asia Humidity Sensors Revenue Growth 2021-2026 (\$ millions)
- Figure 64. India Humidity Sensors Revenue Growth 2021-2026 (\$ millions)
- Figure 65. Australia Humidity Sensors Revenue Growth 2021-2026 (\$ millions)
- Figure 66. China Taiwan Humidity Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 67. Europe Humidity Sensors Sales Market Share by Country in 2025

Figure 68. Europe Humidity Sensors Revenue Market Share by Country (2021-2026)

Figure 69. Europe Humidity Sensors Sales Market Share by Type (2021-2026)

Figure 70. Europe Humidity Sensors Sales Market Share by Application (2021-2026)

Figure 71. Germany Humidity Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 72. France Humidity Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 73. UK Humidity Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 74. Italy Humidity Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 75. Russia Humidity Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 76. Middle East & Africa Humidity Sensors Sales Market Share by Country (2021-2026)

Figure 77. Middle East & Africa Humidity Sensors Sales Market Share by Type (2021-2026)

Figure 78. Middle East & Africa Humidity Sensors Sales Market Share by Application (2021-2026)

Figure 79. Egypt Humidity Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 80. South Africa Humidity Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 81. Israel Humidity Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 82. Turkey Humidity Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 83. GCC Countries Humidity Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 84. Manufacturing Cost Structure Analysis of Humidity Sensors in 2026

Figure 85. Manufacturing Process Analysis of Humidity Sensors

Figure 86. Industry Chain Structure of Humidity Sensors

Figure 87. Channels of Distribution

Figure 88. Global Humidity Sensors Sales Market Forecast by Region (2027-2032)

Figure 89. Global Humidity Sensors Revenue Market Share Forecast by Region (2027-2032)

Figure 90. Global Humidity Sensors Sales Market Share Forecast by Type (2027-2032)

Figure 91. Global Humidity Sensors Revenue Market Share Forecast by Type (2027-2032)

Figure 92. Global Humidity Sensors Sales Market Share Forecast by Application (2027-2032)

Figure 93. Global Humidity Sensors Revenue Market Share Forecast by Application (2027-2032)

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