

Humidity Sensor Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/H591A6328056EN.html>

Date: November 2023

Pages: 138

Price: US\$ 2,499.00 (Single User License)

ID: H591A6328056EN

Abstracts

The global humidity sensor market size reached US\$ 1,081 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 1,640 Million by 2028, exhibiting a growth rate (CAGR) of 7.19% during 2022-2028.

A humidity sensor, or hygrometer, is an electronic device that detects, measures and senses the level of moisture in the air. The sensor consists of metallic plates with non-conductive polymer films and electrodes manufactured using metals, such as silver, platinum and gold. Capacitive, mirror-based, solid, resistive and thermal sensors are some of the commonly available variants. They are used for detecting humidity in confined spaces, soil, semiconductors and heating, ventilating and air conditioning (HVAC) systems. These sensors can withstand high and low temperatures and have minimal maintenance requirements. As a result, they are widely used across various industries, such as chemical, automotive, pharmaceuticals and food and beverage.

Humidity Sensor Market Trends:

The widespread product adoption in the automotive industry across the globe is one of the key factors creating a positive outlook for the market. Humidity sensors are widely used in vehicles to optimize air quality and monitor the dew point. They also aid in preventing windscreen fogging and providing enhanced comfort for the passengers by managing the humidity levels inside the vehicle. Moreover, the increasing utilization of wireless humidity sensors to monitor the temperature and humidity in museums and agricultural environments is providing a thrust to the market growth. Various product innovations, such as the launch of compact humidity sensors, are favoring the market growth. These miniaturized variants are widely used in various consumer electronics, such as fitness trackers, headphones and virtual reality (VR) glasses. In line with this,

the integration of the Internet of Things (IoT) and artificial intelligence (AI) with humidity sensors to track and remotely change the temperature and reduce energy consumption are positively impacting the market growth. Other factors, including the increasing demand for the installation of personalized weather stations, along with widespread product utilization in the food and beverage industry to control contamination and maintain the food quality, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global humidity sensor market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type, product, material and end use.

Breakup by Type:

- Digital
- Analog

Breakup by Product:

- Relative Humidity Sensors
- Absolute Humidity Sensors

Breakup by Material:

- Semiconducting Metal Oxides
- Polymer-based
- Ceramic Sensing
- Others

Breakup by End Use:

- Automotive
- Pharmaceutical and Healthcare
- Building Automation and Domestic Appliances
- Food and Beverages
- Environmental
- Agriculture

Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Amphenol Corporation, Analog Devices Inc., DENSO Corporation, Hitachi Ltd., Honeywell International Inc., Infineon Technologies AG, Robert Bosch GmbH, Sensata Technologies Inc., Sensirion Holding AG, STMicroelectronics, TE Connectivity and Texas Instruments Incorporated.

Key Questions Answered in This Report:

How has the global humidity sensor market performed so far and how will it perform in the coming years?

- What has been the impact of COVID-19 on the global humidity sensor market?
- What are the key regional markets?
- What is the breakup of the market based on the type?
- What is the breakup of the market based on the product?
- What is the breakup of the market based on the material?
- What is the breakup of the market based on the end use?
- What are the various stages in the value chain of the industry?
- What are the key driving factors and challenges in the industry?
- What is the structure of the global humidity sensor market and who are the key players?
- What is the degree of competition in the industry?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL HUMIDITY SENSOR MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY TYPE

- 6.1 Digital
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Analog
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast

7 MARKET BREAKUP BY PRODUCT

7.1 Relative Humidity Sensors

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Absolute Humidity Sensors

7.2.1 Market Trends

7.2.2 Market Forecast

8 MARKET BREAKUP BY MATERIAL

8.1 Semiconducting Metal Oxides

8.1.1 Market Trends

8.1.2 Market Forecast

8.2 Polymer-based

8.2.1 Market Trends

8.2.2 Market Forecast

8.3 Ceramic Sensing

8.3.1 Market Trends

8.3.2 Market Forecast

8.4 Others

8.4.1 Market Trends

8.4.2 Market Forecast

9 MARKET BREAKUP BY END USE

9.1 Automotive

9.1.1 Market Trends

9.1.2 Market Forecast

9.2 Pharmaceutical & Healthcare

9.2.1 Market Trends

9.2.2 Market Forecast

9.3 Building Automation and Domestic Appliances

9.3.1 Market Trends

9.3.2 Market Forecast

9.4 Food and Beverages

9.4.1 Market Trends

9.4.2 Market Forecast

9.5 Environmental

- 9.5.1 Market Trends
- 9.5.2 Market Forecast
- 9.6 Agriculture
 - 9.6.1 Market Trends
 - 9.6.2 Market Forecast
- 9.7 Others
 - 9.7.1 Market Trends
 - 9.7.2 Market Forecast

10 MARKET BREAKUP BY REGION

- 10.1 North America
 - 10.1.1 United States
 - 10.1.1.1 Market Trends
 - 10.1.1.2 Market Forecast
 - 10.1.2 Canada
 - 10.1.2.1 Market Trends
 - 10.1.2.2 Market Forecast
- 10.2 Asia-Pacific
 - 10.2.1 China
 - 10.2.1.1 Market Trends
 - 10.2.1.2 Market Forecast
 - 10.2.2 Japan
 - 10.2.2.1 Market Trends
 - 10.2.2.2 Market Forecast
 - 10.2.3 India
 - 10.2.3.1 Market Trends
 - 10.2.3.2 Market Forecast
 - 10.2.4 South Korea
 - 10.2.4.1 Market Trends
 - 10.2.4.2 Market Forecast
 - 10.2.5 Australia
 - 10.2.5.1 Market Trends
 - 10.2.5.2 Market Forecast
 - 10.2.6 Indonesia
 - 10.2.6.1 Market Trends
 - 10.2.6.2 Market Forecast
 - 10.2.7 Others
 - 10.2.7.1 Market Trends

- 10.2.7.2 Market Forecast
- 10.3 Europe
 - 10.3.1 Germany
 - 10.3.1.1 Market Trends
 - 10.3.1.2 Market Forecast
 - 10.3.2 France
 - 10.3.2.1 Market Trends
 - 10.3.2.2 Market Forecast
 - 10.3.3 United Kingdom
 - 10.3.3.1 Market Trends
 - 10.3.3.2 Market Forecast
 - 10.3.4 Italy
 - 10.3.4.1 Market Trends
 - 10.3.4.2 Market Forecast
 - 10.3.5 Spain
 - 10.3.5.1 Market Trends
 - 10.3.5.2 Market Forecast
 - 10.3.6 Russia
 - 10.3.6.1 Market Trends
 - 10.3.6.2 Market Forecast
 - 10.3.7 Others
 - 10.3.7.1 Market Trends
 - 10.3.7.2 Market Forecast
- 10.4 Latin America
 - 10.4.1 Brazil
 - 10.4.1.1 Market Trends
 - 10.4.1.2 Market Forecast
 - 10.4.2 Mexico
 - 10.4.2.1 Market Trends
 - 10.4.2.2 Market Forecast
 - 10.4.3 Others
 - 10.4.3.1 Market Trends
 - 10.4.3.2 Market Forecast
- 10.5 Middle East and Africa
 - 10.5.1 Market Trends
 - 10.5.2 Market Breakup by Country
 - 10.5.3 Market Forecast

11 SWOT ANALYSIS

- 11.1 Overview
- 11.2 Strengths
- 11.3 Weaknesses
- 11.4 Opportunities
- 11.5 Threats

12 VALUE CHAIN ANALYSIS

13 PORTERS FIVE FORCES ANALYSIS

- 13.1 Overview
- 13.2 Bargaining Power of Buyers
- 13.3 Bargaining Power of Suppliers
- 13.4 Degree of Competition
- 13.5 Threat of New Entrants
- 13.6 Threat of Substitutes

14 PRICE ANALYSIS

15 COMPETITIVE LANDSCAPE

- 15.1 Market Structure
- 15.2 Key Players
- 15.3 Profiles of Key Players
 - 15.3.1 Amphenol Corporation
 - 15.3.1.1 Company Overview
 - 15.3.1.2 Product Portfolio
 - 15.3.1.3 Financials
 - 15.3.1.4 SWOT Analysis
 - 15.3.2 Analog Devices Inc.
 - 15.3.2.1 Company Overview
 - 15.3.2.2 Product Portfolio
 - 15.3.2.3 Financials
 - 15.3.2.4 SWOT Analysis
 - 15.3.3 DENSO Corporation
 - 15.3.3.1 Company Overview
 - 15.3.3.2 Product Portfolio
 - 15.3.3.3 Financials

- 15.3.3.4 SWOT Analysis
- 15.3.4 Hitachi Ltd.
 - 15.3.4.1 Company Overview
 - 15.3.4.2 Product Portfolio
 - 15.3.4.3 Financials
 - 15.3.4.4 SWOT Analysis
- 15.3.5 Honeywell International Inc.
 - 15.3.5.1 Company Overview
 - 15.3.5.2 Product Portfolio
 - 15.3.5.3 Financials
 - 15.3.5.4 SWOT Analysis
- 15.3.6 Infineon Technologies AG
 - 15.3.6.1 Company Overview
 - 15.3.6.2 Product Portfolio
 - 15.3.6.3 Financials
 - 15.3.6.4 SWOT Analysis
- 15.3.7 Robert Bosch GmbH
 - 15.3.7.1 Company Overview
 - 15.3.7.2 Product Portfolio
 - 15.3.7.3 SWOT Analysis
- 15.3.8 Sensata Technologies Inc.
 - 15.3.8.1 Company Overview
 - 15.3.8.2 Product Portfolio
- 15.3.9 Sensirion Holding AG
 - 15.3.9.1 Company Overview
 - 15.3.9.2 Product Portfolio
 - 15.3.9.3 Financials
- 15.3.10 STMicroelectronics
 - 15.3.10.1 Company Overview
 - 15.3.10.2 Product Portfolio
 - 15.3.10.3 Financials
 - 15.3.10.4 SWOT Analysis
- 15.3.11 TE Connectivity
 - 15.3.11.1 Company Overview
 - 15.3.11.2 Product Portfolio
 - 15.3.11.3 Financials
 - 15.3.11.4 SWOT Analysis
- 15.3.12 Texas Instruments Incorporated
 - 15.3.12.1 Company Overview

15.3.12.2 Product Portfolio

15.3.12.3 Financials

15.3.12.4 SWOT Analysis

List Of Tables

LIST OF TABLES

Table 1: Global: Humidity Sensor Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Humidity Sensor Market Forecast: Breakup by Type (in Million US\$), 2023-2028

Table 3: Global: Humidity Sensor Market Forecast: Breakup by Product (in Million US\$), 2023-2028

Table 4: Global: Humidity Sensor Market Forecast: Breakup by Material (in Million US\$), 2023-2028

Table 5: Global: Humidity Sensor Market Forecast: Breakup by End Use (in Million US\$), 2023-2028

Table 6: Global: Humidity Sensor Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 7: Global: Humidity Sensor Market: Competitive Structure

Table 8: Global: Humidity Sensor Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Humidity Sensor Market: Major Drivers and Challenges

Figure 2: Global: Humidity Sensor Market: Sales Value (in Million US\$), 2017-2022

Figure 3: Global: Humidity Sensor Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 4: Global: Humidity Sensor Market: Breakup by Type (in %), 2022

Figure 5: Global: Humidity Sensor Market: Breakup by Product (in %), 2022

Figure 6: Global: Humidity Sensor Market: Breakup by Material (in %), 2022

Figure 7: Global: Humidity Sensor Market: Breakup by End Use (in %), 2022

Figure 8: Global: Humidity Sensor Market: Breakup by Region (in %), 2022

Figure 9: Global: Humidity Sensor (Digital) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 10: Global: Humidity Sensor (Digital) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 11: Global: Humidity Sensor (Analog) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 12: Global: Humidity Sensor (Analog) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 13: Global: Humidity Sensor (Relative Humidity Sensors) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 14: Global: Humidity Sensor (Relative Humidity Sensors) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 15: Global: Humidity Sensor (Absolute Humidity Sensors) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 16: Global: Humidity Sensor (Absolute Humidity Sensors) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 17: Global: Humidity Sensor (Semiconducting Metal Oxides) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 18: Global: Humidity Sensor (Semiconducting Metal Oxides) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 19: Global: Humidity Sensor (Polymer-based) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 20: Global: Humidity Sensor (Polymer-based) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 21: Global: Humidity Sensor (Ceramic Sensing) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 22: Global: Humidity Sensor (Ceramic Sensing) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 23: Global: Humidity Sensor (Other Materials) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 24: Global: Humidity Sensor (Other Materials) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 25: Global: Humidity Sensor (Automotive) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 26: Global: Humidity Sensor (Automotive) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 27: Global: Humidity Sensor (Pharmaceutical and Healthcare) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 28: Global: Humidity Sensor (Pharmaceutical and Healthcare) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 29: Global: Humidity Sensor (Building Automation and Domestic Appliances) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 30: Global: Humidity Sensor (Building Automation and Domestic Appliances) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 31: Global: Humidity Sensor (Food and Beverages) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 32: Global: Humidity Sensor (Food and Beverages) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 33: Global: Humidity Sensor (Environmental) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 34: Global: Humidity Sensor (Environmental) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 35: Global: Humidity Sensor (Agriculture) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 36: Global: Humidity Sensor (Agriculture) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 37: Global: Humidity Sensor (Other End Uses) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 38: Global: Humidity Sensor (Other End Uses) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 39: North America: Humidity Sensor Market: Sales Value (in Million US\$), 2017 & 2022

Figure 40: North America: Humidity Sensor Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 41: United States: Humidity Sensor Market: Sales Value (in Million US\$), 2017 &

2022

Figure 42: United States: Humidity Sensor Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 43: Canada: Humidity Sensor Market: Sales Value (in Million US\$), 2017 & 2022

Figure 44: Canada: Humidity Sensor Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 45: Asia-Pacific: Humidity Sensor Market: Sales Value (in Million US\$), 2017 & 2022

Figure 46: Asia-Pacific: Humidity Sensor Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 47: China: Humidity Sensor Market: Sales Value (in Million US\$), 2017 & 2022

Figure 48: China: Humidity Sensor Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 49: Japan: Humidity Sensor Market: Sales Value (in Million US\$), 2017 & 2022

Figure 50: Japan: Humidity Sensor Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 51: India: Humidity Sensor Market: Sales Value (in Million US\$), 2017 & 2022

Figure 52: India: Humidity Sensor Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 53: South Korea: Humidity Sensor Market: Sales Value (in Million US\$), 2017 & 2022

Figure 54: South Korea: Humidity Sensor Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 55: Australia: Humidity Sensor Market: Sales Value (in Million US\$), 2017 & 2022

Figure 56: Australia: Humidity Sensor Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 57: Indonesia: Humidity Sensor Market: Sales Value (in Million US\$), 2017 & 2022

Figure 58: Indonesia: Humidity Sensor Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 59: Others: Humidity Sensor Market: Sales Value (in Million US\$), 2017 & 2022

Figure 60: Others: Humidity Sensor Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 61: Europe: Humidity Sensor Market: Sales Value (in Million US\$), 2017 & 2022

Figure 62: Europe: Humidity Sensor Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 63: Germany: Humidity Sensor Market: Sales Value (in Million US\$), 2017 & 2022

Figure 64: Germany: Humidity Sensor Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 65: France: Humidity Sensor Market: Sales Value (in Million US\$), 2017 & 2022

Figure 66: France: Humidity Sensor Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 67: United Kingdom: Humidity Sensor Market: Sales Value (in Million US\$), 2017 & 2022

Figure 68: United Kingdom: Humidity Sensor Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 69: Italy: Humidity Sensor Market: Sales Value (in Million US\$), 2017 & 2022

Figure 70: Italy: Humidity Sensor Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 71: Spain: Humidity Sensor Market: Sales Value (in Million US\$), 2017 & 2022

Figure 72: Spain: Humidity Sensor Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 73: Russia: Humidity Sensor Market: Sales Value (in Million US\$), 2017 & 2022

Figure 74: Russia: Humidity Sensor Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 75: Others: Humidity Sensor Market: Sales Value (in Million US\$), 2017 & 2022

Figure 76: Others: Humidity Sensor Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 77: Latin America: Humidity Sensor Market: Sales Value (in Million US\$), 2017 & 2022

Figure 78: Latin America: Humidity Sensor Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 79: Brazil: Humidity Sensor Market: Sales Value (in Million US\$), 2017 & 2022

Figure 80: Brazil: Humidity Sensor Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 81: Mexico: Humidity Sensor Market: Sales Value (in Million US\$), 2017 & 2022

Figure 82: Mexico: Humidity Sensor Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 83: Others: Humidity Sensor Market: Sales Value (in Million US\$), 2017 & 2022

Figure 84: Others: Humidity Sensor Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 85: Middle East and Africa: Humidity Sensor Market: Sales Value (in Million US\$), 2017 & 2022

Figure 86: Middle East and Africa: Humidity Sensor Market: Breakup by Country (in %), 2022

Figure 87: Middle East and Africa: Humidity Sensor Market Forecast: Sales Value (in

Million US\$), 2023-2028

Figure 88: Global: Humidity Sensor Industry: SWOT Analysis

Figure 89: Global: Humidity Sensor Industry: Value Chain Analysis

Figure 90: Global: Humidity Sensor Industry: Porter's Five Forces Analysis

I would like to order

Product name: Humidity Sensor Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Product link: <https://marketpublishers.com/r/H591A6328056EN.html>

Price: US\$ 2,499.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/H591A6328056EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

