

# Humidity Sensor Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

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## Abstracts

The global humidity sensor market reached a value of US\$ 996.9 Million in 2021. Looking forward, IMARC Group expects the market to reach US\$ 1,534.8 Million by 2027, exhibiting a CAGR of 7.66% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use industries. These insights are included in the report as a major market contributor.

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, along with forecasts at the global, regional and country level from 2022-2027. 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?

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