

# **Global Humidity Sensor Market Size study & Forecast, by Product (Relative Humidity Sensors, Absolute Humidity Sensors) by Type (Digital, Analog), by End Use (Residential, Commercial, Automotive, Industrial, Weather Station, Others) and Regional Analysis, 2022-2029**

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## **Abstracts**

Global Humidity Sensor Market is valued at approximately USD 5.22 billion in 2021 and is anticipated to grow with a healthy growth rate of more than 14.2% over the forecast period 2022-2029. A humidity sensor is an electrical device that detects, measures and reports air temperature and water vapor content. The humidity sensor works by continuously observing the surrounding environment and alerting the user of any alarming situations. It detects any variation in the electrical currents or air temperature. These sensors can provide accurate and reliable readings of humidity levels in real-time, making them a valuable tool for a wide range of applications. The rising focus on continuous and real-time monitoring, surging demand for this sensor across wide range of end-use industries, coupled with the rapid proliferation of wireless networking and the Internet of Things (IoT) are the key driving factors for the global market growth globally.

Furthermore, the surge in the usage of humidity sensors in smart grids and smart homes is acting as a catalyzing factor for the market demand at a considerable rate. Humidity sensors are commonly used in smart homes to monitor and control indoor humidity levels. According to Statista, it was estimated that there were around 259.89 million smart homes were recorded globally, which is anticipated to reach 478.22 smart homes by the year 2025. Humidity sensors can be integrated with smart assistants such as Amazon Alexa or Google Assistant to provide voice control of the home's humidity levels. This allows homeowners to adjust the humidity levels with simple voice

commands, making it convenient and easy to maintain a comfortable indoor environment. Thus, these aforementioned factors are soaring in the market demand across the globe. Moreover, the rising emergence of novel technologies, as well as the increase in demand for small-sized humidity sensors is presenting various lucrative opportunities over the forecasting years. However, the inaccuracy of devices in terms of non-linearity and offset errors and the high cost associated with the systems and installations are challenging the market growth throughout the forecast period of 2022-2029.

The key regions considered for the Global Humidity Sensor Market study include Asia Pacific, North America, Europe, Latin America, and the Rest of the World. North America dominated the market in terms of revenue, owing to the growing adoption of air quality monitoring systems with integrated humidity sensor solutions and the rising number of smart homes. Whereas, the Asia Pacific is also expected to grow with the highest CAGR during the forecast period, owing to factors such as rising demand for sensor solutions that can be integrated into handheld devices, increasing number of smart cities initiatives, and growth in IoT infrastructure in the market space.

Major market players included in this report are:

Honeywell International Inc.  
Texas Instruments Inc.  
Amphenol Corporation  
Guangzhou Aosong Electronics Co., Ltd.  
Renesas Electronics Corporation  
Sensirion Ag Switzerland  
Schneider Electric  
TE Connectivity Ltd.  
General Electric Company  
Laird Connectivity

Recent Developments in the Market:

In May 2020, The Electronics and Telecommunications Research Institute (ETRI) declared that the company had created humidity sensor technology that uses molybdenum sulphide (MoS<sub>2</sub>), an inorganic compound made of molybdenum and sulfur, to detect moisture with great sensitivity, such as skin perspiration or tidal volume. The humidity sensor has the highest sensitivity in the entire globe at more than 66,000 per cent. It exceeds the capabilities of the present sensors by more than 660 times. The detection time is 0.5 seconds, which is up to 12 times faster than the five to six seconds required by traditional commercial sensors.

Global Humidity Sensor Market Report Scope:

Historical Data 2019-2020-2021

Base Year for Estimation 2021

Forecast period 2022-2029

Report Coverage Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered Product, Type, End Use, Region

Regional Scope North America; Europe; Asia Pacific; Latin America; Rest of the World

Customization Scope Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Product:

Relative Humidity Sensors

Absolute Humidity Sensors

By Type:

Digital

Analog

By End Use:

Residential

Commercial

Automotive

Industrial

Weather Station

Others

By Region:

North America

U.S.

Canada  
Europe  
UK  
Germany  
France  
Spain  
Italy  
ROE  
Asia Pacific  
China  
India  
Japan  
Australia  
South Korea  
RoAPAC  
Latin America  
Brazil  
Mexico  
RoLA  
Rest of the World

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