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# Humidity Sensor Market Research Report - Global Forecast till 2027

Report / Search Code: MRFR/SEM/4140-CR

Publish Date: April, 2020

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Price	1-user PDF : \$ 4950.0	Site PDF : \$ 3250.0	Enterprise PDF : \$ 7250.0
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## Description:

### Humidity Sensor Market Size and Overview

Globally, the size of humidity Sensor Market is set to grow at a CAGR of 6.30% from a value of USD 1069.9 Million in 2019 to hit USD 1551.4 Million by 2027 driven by Increasing Uses of Humidity Sensors Impact the Market Growth Positively.

Humidity is one of the equipment used in commercial and industrial applications with building ventilation control and environmental chambers to test the electronics. This is also used to clean rooms in the semiconductor & automotive industries, industrial drying, and process monitoring in the chemicals, electronics, food/beverage, pharmaceutical, cosmetics, and biomedical analysis industries. It is an electronic component that can sense, measure, and report the water vapours and air temperature.

This function is carried out by monitoring environmental conditions and alerting the user of any troubling situation. It can detect the change in the air temperature and the shift in electrical currents. There are certain growth factors in the humidity sensor industrial. The rising demand for the small-sized humidity sensors, installation of personal weather stations, and development in the automotive sectors are some of the essential drivers of the market. However, there are also certain restraining factors, such as the requirement to improve the technical specification of humidity sensors, which can hinder the market in the future. These will also form new opportunities for the various market players to look upon the restraints and get forward with the drivers for market growth.

- On Jun. 23, 2022, Sensirion announced the addition of the new digital automotive sensor -SHT4xA, to its humidity and temperature sensor line. The new SHT4xA sensor is based on the Sensirion's experience in humidity measurement and its CMOSens Technology. The sensor designed particularly for automotive applications satisfies the most demanding reliability necessities, such as accelerated lifetime tests. Also, there is an integrated heater that allows chip self-diagnostics throughout its operating life. This device is expected to set the highest standards for demanding applications.

### COVID-19 Analysis

The humidity sensor market has been garnering significant traction across the globe due to the massive prominence these sensors have gained over the past few years. However, the COVID-19 outbreak created significant hurdles for the humidity sensor industry, bringing the world to a halt.

With the pandemic-driven lockdown causing huge revenue losses to end-use industries, humidity sensor prices spiked, and the demand lowered. However, post lockdown limitations were relaxed, the humidity sensor market is again gearing up. Innovative industry players have actively started to look for increasing application areas of sensors in monitoring and tracking devices developed for COVID 19.

Humidity sensors are increasingly used in medical devices to track patient health metrics from afar, and sensor manufacturers are using these opportunities to streamline their production lines.

- On May 4, 2020, Honeywell Building Solutions announced that it helped the Miami Beach Convention Center (MBCC) convert it into an alternative care facility. The main area of focus was on the building management system, including airflow and chiller management. Keeping in mind rigorous guidelines of CDC and ASHRAE for air exchanges/hour for airborne contaminant removal & ventilation specifications for healthcare facilities, Honeywell deployed its innovative BMS technology to audit the space & develop a plan to respond to the challenges, such as airflow, humidity, fire & life safety, and energy savings.

### Market Dynamics

### Market Drivers

- **Increasing Uses of Humidity Sensors Impact the Market Growth Positively**

The humidity sensor market outlook appears promising, demonstrating tremendous opportunities in the food & beverage, healthcare, and textile, among other sectors. Besides, the growing adoption of wireless moisture sensors for climate monitoring in greenhouse farming boosts the humidity sensor market share. Spurring rise in various industries, manufacturing sectors, and the rising automation influences the dynamics of the humidity sensor industry.

Additionally, the miniaturization of sensors, the rising developments in IoT and IIoT technology due to the proliferation of industry 4.0, and the advent of 5.0 are some of the key humidity sensor market trends fostering the growth of the market. Moreover, increasing uses of sensors in smart grids and smart homes propel the growth of the market.

## **Market Opportunities**

- **Agricultural Sectors Present Robust Opportunities**

Many Fortune 500 companies, startups, and Connecticut businesses are increasingly seeking to position themselves in the sensor-technology space. They are developing products and services to detect environmental changes like heat, motion, or pressure, providing data and information.

Temperature and humidity sensors are commonly used in consumer electronics; however, businesses in myriad industries are being adopted at a rapid pace to make their operations, products, or services more efficient and profitable. Furthermore, rising uses of humidity sensor switches, relative humidity sensors, and wireless/remote humidity sensors in environmental monitoring devices and soil monitoring devices present untapped opportunities for market growth.

With the growing global food demand due to the rapidly increasing population worldwide, many players are actively working on the global challenge to balance food production while simultaneously reducing greenhouse gas (GHG) emissions from agricultural production.

Increasing adoption of the wireless humidity sensor and remote humidity sensor in monitoring variables that affect crop quality providing near real-time, actionable insights that allow farmers to increase yield and save time spent for watering trips to the field. These factors are cumulatively projected to offer significant growth opportunities for the humidity sensor market.

- On Oct. 17, 2022, THIRDDREALITY launched a new temperature and humidity sensor with the Third Reality App that can interact with other smart home products to improve home automation. This new sensor enables the monitoring of temperature and humidity in real-time on the App, which allows people to understand and adjust the status of their home. The THIRDDREALITY sensor is a standard ZigBee device, supporting most ZigBee hubs, including HomeAssistant, SmartThings, Hubitat, etc.

## **Restraints & Challenges**

- **Fluctuating Prices to Restrain Market Growth**

Fluctuations in the prices and the demand-supply gap in various key components & raw materials are major factors restraining the growth of the market. Moreover, high maintenance and operational costs are presenting major challenges to the market growth. Also, humidity sensor technology is a little expensive, which often increases its overall market price. Therefore, the high costs are considered as a major factor projected to challenge the market growth.

## **Humidity Sensor Market Segment Overview**

The Humidity Sensor Market Research is segmented into Type, Material Type, Application, and Region.

- On Oct. 19, 2022, E+E Elektronik announced the expansion of its digital sensing range with the addition of the HTE301 humidity & temperature sensing element and the TEE301 temperature sensing element, providing superb measurement precision and operations in temperatures ranging from -40 °C to 125 °C. This compact 8-pin DFN package comes with an I2C interface and 4 individually configurable I2C to address the perfect solution for demanding designs.

## **Absolute Humidity Sensor to Witness Significant Demand**

The type segment is sub-segmented into absolute humidity sensors, relative humidity sensors, and others. Absolute humidity sensors are further bifurcated into mirror-based sensors and solid moisture sensors. Relative humidity sensors are further bifurcated into capacitive, resistive, and thermal.

Among these, the absolute humidity sensor segment accounts for the largest market share, while relative humidity sensor accounts for the fastest-growing segment. In 2019, the segment held a 61.5% market share, with a market value of USD 658.0 million. The absolute humidity sensor segment is estimated to grow at a 5.1% CAGR during the forecast period. On the other hand, the relative humidity sensor segment is projected to register an 8.6% CAGR during the forecast period.

## Material Type & Application Segment Bifurcation

The material type segment is sub-segmented into semiconducting metal oxides, polymer-based, and ceramic sensing. The application segment is sub-segmented into food & beverage, plastic & polymer, buildings & tunnels, pharmaceuticals, agriculture, fabric & textile, and others.

## North America is the Largest Market for Humidity Sensors

By region, the market is bifurcated into the Americas (US, Canada, Mexico, Rest-of-North America) and South America, Europe (the UK, Germany, France, Italy, and Rest-of-Europe), Asia Pacific (China, Japan, India, South Korea, and Rest-of-the-APAC), and Rest-of-the-World. Among these, North America accounts for the largest market share, followed by Europe and the Asia Pacific region, respectively.

## Regional Analysis

### North America to Maintain its Winning Streak

North America has always remained the market leader and could continue to maintain its winning streak throughout the assessment period. The humidity sensor market in North America reached a market valuation of USD 314.9 million in 2019, which would grow further at a 5.9% CAGR during the forecast period.

Factors such as vast technology upgrades and the high demand for IIoT devices from the industrial sectors drive the humidity sensor market growth. The US is the largest market for humidity sensors, followed by Canada and Mexico. The rising demand for humidity sensors in hotels, hospitals, buildings, and schools boosts the US humidity sensor market size.

### Europe Derives Second- Highest Share

Europe holds the second-leading share in the global humidity sensor market. Factors such as the vast growth in manufacturing sectors and the large presence of agriculture and chemical companies foster Europe's humidity sensor market share.

Additionally, strict regulations and considerable healthcare spending, coupled with the extensive pool of medical device manufacturers in the region, push the regional market growth. The European market is projected to expand at a 4% CAGR, with a market value of USD 247.0 million by the end of the forecast period.

### APAC, an Emerging market for humidity sensors

The Asia Pacific region is an emerging market for humidity sensors. Factors such as growing uses of humidity sensors in medical devices and agricultural applications boost the market demand in the region. Furthermore, augmenting demand due to the increasing awareness about the humidity sensor's advantages in industrial safety and agricultural applications contributes to the market's growth.

Besides, the significant expansion of prominent end-use industries like food & beverage, plastic & polymer, fabric & textile buildings & tunnels, and pharmaceuticals, and increasing automation in manufacturing sectors influence the regional market growth. The humidity sensor market in the Asia Pacific region is expected to register an 8.4% CAGR during the forecast period.

- The Building America House Simulation Protocols (HSP) have defined the default heating and cooling set points for simulations related to the Building America Program compliance. The HSP has set heating, cooling, and humidity points based on ASHRAE Standard 55-2004.
- On Jun. 17, 2019, Honeywell, a leading global provider of connected building solutions, announced enhancements to its INNCOM INNcontrol 5 energy management and guestroom system. These advanced packages provide full guestroom control and integrations with humidity, temperature, drapery, lighting, and amenities with the option for voice control. The new INNCOM INNcontrol 5 (IC5) System will allow multi-property scalability for full portfolio management.
- Honeywell also launched a new mid-market product offering that combines cost-effective, simplified energy management specifically designed for the Mid-Market hotel segment. The newly positioned INNCOM hardware and tailored networked packages feature a thermostat with a motion sensor and a door switch to manage multi-property scalability for full portfolio management.

## Competitive Landscape

### Players Focus Product Development and Expansion

The humidity sensor market appears extremely competitive, considering the strong presence of established industry players. Temperature and humidity sensor manufacturers are increasingly facing fierce competition from each other and from local players, who are well aware of the industry's regulations and suppliers. Humidity sensor manufacturers seek opportunities to integrate across the extended value chain, focusing on expanding production facilities, R&D investments, and M&A activities.

## Key Companies Covered in the Report

Honeywell International, Inc.(US), Sensirion AG (Switzerland), GE Inspection Technologies (US),PCE Holdings GmbH (Germany), Amphenol Corporation (US), Texas Instruments (US), Bosch Sensortec GmbH (Germany), OMRON Corporation (Japan), Silicon Laboratories (US), TDK Corporation (Japan), Alps Alpine co., ltd (Japan), and STMicroelectronics NV (Switzerland) are some of the affluent contenders holding sizeable humidity sensor market share.

Soiltech Wireless Inc. (US) is a leading sensor technology provider. Enabled by AT&T's nationwide, highly secure LTE-M cellular network in the United States, the Soiltech Sensor precisely records and transmits data for soil moisture, temperature, humidity, location, and impacts that may create bruising while crops are being grown, transported and stored. Soiltech's devices are useful in measuring, viewing, and managing multiple variables that impact crop quality.

## Recent Developments

### April 2022

- In collaboration with Sung-Hoon Hong and Dr Soo-Jung Kim of the Electronics and Telecommunications Research Institute, ETRI, and Professor Young Min Song of Gwangju Institute of Science and Technology, the Department of Chemical Engineering, GIST has developed an ultrafast humidity-responsive colourimetric sensor.
- TRUEN, the Korean manufacturer of EGLOO products, has been making home security systems for more than a decade. The new product launch named the EGLOO cam S4 is a cost-effective intelligent home camera that can record videos 24/7 in full HD at 30fps and help you communicate with your loved ones at home using the built-in speaker and microphone.

## Report Overview

The humidity sensor market analysis features unique and relevant factors that significantly impact market growth.

This detailed temperature humidity sensor market forecast would help industry players to better understand the market. The MRFR report elaborates on the historical and current relative humidity sensor market trends boosting the growth of the market.

Besides, the analysis of COVID-19 impact on the humidity sensor industry is also included in the report. Regional assessment explained in this report unlocks a plethora of untapped opportunities in regional and domestic market spaces. Detailed company profiling in the region enables users to evaluate company shares analysis, scope of the existing & emerging product lines in new markets, pricing strategies, innovation possibilities, and much more

## Market Segmentation Table

### Humidity Sensor Type Outlook

- Absolute Humidity Sensors
  - Mirror-Based Sensors
  - Solid Moisture Sensors
- Relative Humidity Sensors
  - Capacitive
  - Resistive
  - Thermal
  - Others

### Humidity Sensor Material Type Outlook

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

### Humidity Sensor Application Outlook

- Food & Beverage
- Plastic & Polymer
- Buildings & Tunnels
- Pharmaceuticals
- Agriculture
- Fabric & Textile
- Others

## Humidity Sensor Region Outlook

- North America
- Europe
- Asia Pacific
- Rest of the World (RoW)

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