

Humidity Sensor Market Report and Forecast 2025-2034

Market Report | 2025-08-11 | 170 pages | EMR Inc.

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Report description:

The global humidity sensor market attained a value of about USD 7.00 Billion in 2024. The market is further expected to grow in the forecast period of 2025-2034 at a CAGR of 14.20% to reach nearly USD 26.41 Billion by 2034.

Humidity Sensor Market Growth

The incorporation of advanced HVAC systems in automobiles to control temperatures as well as improve the overall efficiency of automobiles is increasing the use of humidity sensors to calculate the dew point temperature of the interior air. The rising popularity of automatic temperature control (ATC) systems that can adjust the climate of a vehicle in accordance with the temperature set by the user is increasing the use of humidity sensors. In addition, they can efficiently regulate the volume of air projected on windows and prevent mist on windows. Various superior humidity sensors can also measure the temperature of windshields and side windows remotely by using infrared sensor technology, which is providing impetus to the market growth.

The rapid electrification of the automotive industry is also surging the demand for humidity sensors. As electric vehicles (EV) and hybrid electric vehicles are becoming increasingly popular, the demand for battery management systems is significantly growing. Humidity sensors are a crucial component of battery management systems as they boost the security of electric vehicles by monitoring the current, voltage, humidity, and temperature of lithium-ion batteries. They also prevent short circuits of electric vehicles operated in humid weather conditions by monitoring and ventilating the amount of humidity accumulated in batteries. Moreover, they initiate the ventilation process only when the humidity level surpasses the threshold, therefore minimising power consumption and improving the overall efficiency of electric vehicles, consequently augmenting the industry growth for humidity sensor.

Humidity Sensor Market Segmentation

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A humidity sensor, variously known as a hygrometer, is a device that measures and detects the amount of humidity to control humidity of an interior environment. It is extensively used in various applications in production facilities in major industries such as food and beverages to enhance the shelf life of products while controlling humidity during the production process.

The major products of humidity sensor are:

- Relative Humidity Sensor
- Relative Humidity Sensor
- Relative Humidity and Temperature Sensor
- Absolute Humidity Sensor

The market can be broadly categorised on the basis of its types into:

- Digital
- Analogue

Based on end uses, the market is divided into:

- Residential
- Commercial
- Automotive
- Industrial
- Agricultural
- Weather Station
- Healthcare

The EMR report looks into the regional markets of humidity sensor like:

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Rising Adoption of Technological Tools to Improve Productivity in the Agricultural Sector to Bolster the Market Growth

The robust growth of the agricultural industry is propelling the market growth of humidity sensor. The rising demand for high yield and profitability in the industry is increasing the adoption of various tools, technology, and techniques by farmers to improve productivity. Moreover, the rapid climate change is surging thoughtfulness regarding the use of natural resources such as water. This is increasing the use of humidity sensors that determine water levels and aid in reducing costs. In addition, they can enable farmers to irrigate efficiently by customising the frequency and intensity of water to retain all the nutrients of crops, hence invigorating the market growth of humidity sensor.

The rising popularity of precision agriculture integrating the latest technologies in crop production is leading to various research and development (R&D) activities to increase the efficiency of humidity sensors. The development of smart humidity sensors that can determine the moisture content accurately and precisely while processing and transmitting a vast amount of data is projected to fuel the growth of the humidity sensor industry. Smart humidity sensors have a pre-acquired memory map that can display the

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calibrated reading of soil water tension. This rising use of wireless, sustainable and smart humidity sensors in precision agriculture, hydrology, civil engineering, and forestry is significantly escalating, which is anticipated to augment the growth of the humidity sensor industry.

Key Industry Players in the Global Humidity Sensor Industry

The report presents a detailed analysis of the following key players in the global humidity sensor market, looking into their capacity, market shares, and latest developments like capacity expansions, plant turnarounds, and mergers and acquisitions:

- TE Connectivity Corporation
- Honeywell International Inc.
- Guangzhou Aosong Electronics Co., Ltd.
- Renesas Electronics Corporation
- Amphenol Corporation
- Texas Instruments Incorporated
- Sensirion AG Switzerland
- Others

The comprehensive report looks into the macro and micro aspects of the industry. The EMR report gives an in-depth insight into the market by providing a SWOT analysis as well as an analysis of Porter's Five Forces model.

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