

Soil Moisture Sensors Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

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Abstracts

The global soil moisture sensors market size reached US\$ 188.5 Million in 2021. Looking forward, IMARC Group expects the market to reach US\$ 407.7 Million by 2027, exhibiting a growth rate (CAGR) of 14.11% 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 soil moisture sensor is an instrument that is used for measuring water content in the active root zone on the volumetric and gravimetric bases. It relies on adjustable moisture content set-points, which are connected to an irrigation system controller and utilizes high-frequency capacitance technology. It assists in detecting and converting electrical conductivity to moisture units, providing real-time data, conserving water and improving the overall irrigation efficiency. Consequently, it is extensively being utilized in landscape irrigation, greenhouse management, bioremediation and wastewater reclamation. Moreover, it is considered suitable for research and experimental studies in the field of environmental science, agricultural science, biology, botany and horticulture.

Owing to the growing population and escalating demand for agricultural produce, there is an increase in the adoption of precision farming and yield monitoring practices to improve crop productivity. This, coupled with favorable government policies introduced in numerous countries, represents one of the key factors bolstering the global soil moisture sensors market growth. Apart from this, the increasing trend of gardening is boosting the sales of soil moisture sensors to monitor and maintain lush green gardens and lawns constantly. Moreover, these sensors are employed in the construction sector for detecting wetlands before initiating a project. Furthermore, advancements in satellite

remote sensing technology are anticipated to create lucrative opportunities for manufacturers. Moreover, market players are introducing the Internet of Things (IoT)-based soil moisture sensors that can be buried underground permanently, which, in turn, helps in reducing maintenance costs.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global soil moisture sensors market report, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on type, sensor, connectivity and application.

Breakup by Type:

- Volumetric Soil Moisture Sensors
- Soil Water Potential Sensors

Breakup by Sensor:

- Gypsum Blocks
- Granular Matrix Sensors
- Tensiometers
- Probes
- Capacitance Sensors
- TDT (Time Domain Transmissiometry) Sensors

Breakup by Connectivity:

- Wired
- Wireless

Breakup by Application:

- Residential
- Agriculture
- Landscaping and Ground Care
- Sports Turf
- Weather Forecasting
- Forestry
- Construction and Mining

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 report has also analysed the competitive landscape of the market with some of the key players being Acclima Inc., Campbell Scientific Inc., Delta-T Devices, E.S.I. Environmental Sensors (SUCO), Imko Micromodultechnik (Endress+Hauser), Irrrometer Company, Sentek (Scientific Digital Imaging Plc), Spectrum Technologies (Transcat), Stevens Water Monitoring Systems, The Toro Company, etc.

Key Questions Answered in This Report:

How has the global soil moisture sensors market performed so far and how will it perform in the coming years?

What are the key regional markets?

What has been the impact of COVID-19 on the global soil moisture sensors market?

What is the breakup of the market based on the type?

What is the breakup of the market based on the sensor?

What is the breakup of the market based on the connectivity?

What is the breakup of the market based on the application?

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 soil moisture sensors market and who are the key players?

What is the degree of competition in the industry?

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