

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 (SUICO), 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?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL SOIL MOISTURE SENSORS MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY TYPE

- 6.1 Volumetric Soil Moisture Sensors
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Soil Water Potential Sensors
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast

7 MARKET BREAKUP BY SENSOR

- 7.1 Gypsum Blocks
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Granular Matrix Sensors
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Tensiometers
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
- 7.4 Probes
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast
- 7.5 Capacitance Sensors
 - 7.5.1 Market Trends
 - 7.5.2 Market Forecast
- 7.6 TDT (Time Domain Transmissiometry) Sensors
 - 7.6.1 Market Trends
 - 7.6.2 Market Forecast

8 MARKET BREAKUP BY CONNECTIVITY

- 8.1 Wired
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Wireless
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast

9 MARKET BREAKUP BY APPLICATION

- 9.1 Residential
 - 9.1.1 Market Trends
 - 9.1.2 Market Forecast
- 9.2 Agriculture
 - 9.2.1 Market Trends
 - 9.2.2 Market Forecast
- 9.3 Landscaping and Ground Care

- 9.3.1 Market Trends
- 9.3.2 Market Forecast
- 9.4 Sports Turf
 - 9.4.1 Market Trends
 - 9.4.2 Market Forecast
- 9.5 Weather Forecasting
 - 9.5.1 Market Trends
 - 9.5.2 Market Forecast
- 9.6 Forestry
 - 9.6.1 Market Trends
 - 9.6.2 Market Forecast
- 9.7 Construction and Mining
 - 9.7.1 Market Trends
 - 9.7.2 Market Forecast
- 9.8 Others
 - 9.8.1 Market Trends
 - 9.8.2 Market Forecast

10 MARKET BREAKUP BY REGION

- 10.1 North America
 - 10.1.1 United States
 - 10.1.1.1 Market Trends
 - 10.1.1.2 Market Forecast
 - 10.1.2 Canada
 - 10.1.2.1 Market Trends
 - 10.1.2.2 Market Forecast
- 10.2 Asia Pacific
 - 10.2.1 China
 - 10.2.1.1 Market Trends
 - 10.2.1.2 Market Forecast
 - 10.2.2 Japan
 - 10.2.2.1 Market Trends
 - 10.2.2.2 Market Forecast
 - 10.2.3 India
 - 10.2.3.1 Market Trends
 - 10.2.3.2 Market Forecast
 - 10.2.4 South Korea
 - 10.2.4.1 Market Trends

- 10.2.4.2 Market Forecast
- 10.2.5 Australia
 - 10.2.5.1 Market Trends
 - 10.2.5.2 Market Forecast
- 10.2.6 Indonesia
 - 10.2.6.1 Market Trends
 - 10.2.6.2 Market Forecast
- 10.2.7 Others
 - 10.2.7.1 Market Trends
 - 10.2.7.2 Market Forecast
- 10.3 Europe
 - 10.3.1 Germany
 - 10.3.1.1 Market Trends
 - 10.3.1.2 Market Forecast
 - 10.3.2 France
 - 10.3.2.1 Market Trends
 - 10.3.2.2 Market Forecast
 - 10.3.3 United Kingdom
 - 10.3.3.1 Market Trends
 - 10.3.3.2 Market Forecast
 - 10.3.4 Italy
 - 10.3.4.1 Market Trends
 - 10.3.4.2 Market Forecast
 - 10.3.5 Spain
 - 10.3.5.1 Market Trends
 - 10.3.5.2 Market Forecast
 - 10.3.6 Russia
 - 10.3.6.1 Market Trends
 - 10.3.6.2 Market Forecast
 - 10.3.7 Others
 - 10.3.7.1 Market Trends
 - 10.3.7.2 Market Forecast
- 10.4 Latin America
 - 10.4.1 Brazil
 - 10.4.1.1 Market Trends
 - 10.4.1.2 Market Forecast
 - 10.4.2 Mexico
 - 10.4.2.1 Market Trends
 - 10.4.2.2 Market Forecast

10.4.3 Others

10.4.3.1 Market Trends

10.4.3.2 Market Forecast

10.5 Middle East and Africa

10.5.1 Market Trends

10.5.2 Market Breakup by Country

10.5.3 Market Forecast

11 SWOT ANALYSIS

11.1 Overview

11.2 Strengths

11.3 Weaknesses

11.4 Opportunities

11.5 Threats

12 VALUE CHAIN ANALYSIS

13 PORTERS FIVE FORCES ANALYSIS

13.1 Overview

13.2 Bargaining Power of Buyers

13.3 Bargaining Power of Suppliers

13.4 Degree of Competition

13.5 Threat of New Entrants

14.6 Threat of Substitutes

14 PRICE INDICATORS

15 COMPETITIVE LANDSCAPE

15.1 Market Structure

15.2 Key Players

15.3 Profiles of Key Players

15.3.1 Acclima Inc.

15.3.1.1 Company Overview

15.3.1.2 Product Portfolio

15.3.2 Campbell Scientific Inc.

15.3.2.1 Company Overview

- 15.3.2.2 Product Portfolio
- 15.3.3 Delta-T Devices
 - 15.3.3.1 Company Overview
 - 15.3.3.2 Product Portfolio
- 15.3.4 E.S.I. Environmental Sensors (SUCO)
 - 15.3.4.1 Company Overview
 - 15.3.4.2 Product Portfolio
 - 15.3.4.3 Financials
- 15.3.5 Imko Micromodultechnik (Endress + Hauser)
 - 15.3.5.1 Company Overview
 - 15.3.5.2 Product Portfolio
- 15.3.6 Irrrometer Company
 - 15.3.6.1 Company Overview
 - 15.3.6.2 Product Portfolio
- 15.3.7 Sentek (Scientific Digital Imaging Plc)
 - 15.3.7.1 Company Overview
 - 15.3.7.2 Product Portfolio
- 15.3.8 Spectrum Technologies (Transcat)
 - 15.3.8.1 Company Overview
 - 15.3.8.2 Product Portfolio
- 15.3.9 Stevens Water Monitoring Systems
 - 15.3.9.1 Company Overview
 - 15.3.9.2 Product Portfolio
- 15.3.10 The Toro Company
 - 15.3.10.1 Company Overview
 - 15.3.10.2 Product Portfolio
 - 15.3.10.3 Financials
 - 15.3.10.4 SWOT Analysis

List Of Tables

LIST OF TABLES

Table 1: Global: Soil Moisture Sensors Market: Key Industry Highlights, 2021 and 2027

Table 2: Global: Soil Moisture Sensors Market Forecast: Breakup by Type (in Million US\$), 2022-2027

Table 3: Global: Soil Moisture Sensors Market Forecast: Breakup by Sensor (in Million US\$), 2022-2027

Table 4: Global: Soil Moisture Sensors Market Forecast: Breakup by Connectivity (in Million US\$), 2022-2027

Table 5: Global: Soil Moisture Sensors Market Forecast: Breakup by Application (in Million US\$), 2022-2027

Table 6: Global: Soil Moisture Sensors Market Forecast: Breakup by Region (in Million US\$), 2022-2027

Table 7: Global: Soil Moisture Sensors Market: Competitive Structure

Table 8: Global: Soil Moisture Sensors Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Soil Moisture Sensors Market: Major Drivers and Challenges

Figure 2: Global: Soil Moisture Sensors Market: Sales Value (in Million US\$), 2016-2021

Figure 3: Global: Soil Moisture Sensors Market: Breakup by Type (in %), 2021

Figure 4: Global: Soil Moisture Sensors Market: Breakup by Sensor (in %), 2021

Figure 5: Global: Soil Moisture Sensors Market: Breakup by Connectivity (in %), 2021

Figure 6: Global: Soil Moisture Sensors Market: Breakup by Application (in %), 2021

Figure 7: Global: Soil Moisture Sensors Market: Breakup by Region (in %), 2021

Figure 8: Global: Soil Moisture Sensors Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 9: Global: Soil Moisture Sensors (Volumetric Soil Moisture Sensors) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 10: Global: Soil Moisture Sensors (Volumetric Soil Moisture Sensors) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 11: Global: Soil Moisture Sensors (Soil Water Potential Sensors) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 12: Global: Soil Moisture Sensors (Soil Water Potential Sensors) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 13: Global: Soil Moisture Sensors (Gypsum Blocks) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 14: Global: Soil Moisture Sensors (Gypsum Blocks) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 15: Global: Soil Moisture Sensors (Granular Matrix Sensors) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 16: Global: Soil Moisture Sensors (Granular Matrix Sensors) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 17: Global: Soil Moisture Sensors (Tensiometers) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 18: Global: Soil Moisture Sensors (Tensiometers) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 19: Global: Soil Moisture Sensors (Probes) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 20: Global: Soil Moisture Sensors (Probes) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 21: Global: Soil Moisture Sensors (Capacitance Sensors) Market: Sales Value

(in Million US\$), 2016 & 2021

Figure 22: Global: Soil Moisture Sensors (Capacitance Sensors) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 23: Global: Soil Moisture Sensors (TDT Sensors) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 24: Global: Soil Moisture Sensors (TDT Sensors) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 25: Global: Soil Moisture Sensors (Wired) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 26: Global: Soil Moisture Sensors (Wired) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 27: Global: Soil Moisture Sensors (Wireless) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 28: Global: Soil Moisture Sensors (Wireless) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 29: Global: Soil Moisture Sensors (Residential) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 30: Global: Soil Moisture Sensors (Residential) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 31: Global: Soil Moisture Sensors (Agriculture) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 32: Global: Soil Moisture Sensors (Agriculture) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 33: Global: Soil Moisture Sensors (Landscaping and Ground Care) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 34: Global: Soil Moisture Sensors (Landscaping and Ground Care) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 35: Global: Soil Moisture Sensors (Sports Turf) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 36: Global: Soil Moisture Sensors (Sports Turf) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 37: Global: Soil Moisture Sensors (Weather Forecasting) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 38: Global: Soil Moisture Sensors (Weather Forecasting) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 39: Global: Soil Moisture Sensors (Forestry) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 40: Global: Soil Moisture Sensors (Forestry) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 41: Global: Soil Moisture Sensors (Construction and Mining) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 42: Global: Soil Moisture Sensors (Construction and Mining) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 43: Global: Soil Moisture Sensors (Others) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 44: Global: Soil Moisture Sensors (Others) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 45: North America: Soil Moisture Sensors Market: Sales Value (in Million US\$), 2016 & 2021

Figure 46: North America: Soil Moisture Sensors Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 47: United States: Soil Moisture Sensors Market: Sales Value (in Million US\$), 2016 & 2021

Figure 48: United States: Soil Moisture Sensors Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 49: Canada: Soil Moisture Sensors Market: Sales Value (in Million US\$), 2016 & 2021

Figure 50: Canada: Soil Moisture Sensors Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 51: Asia Pacific: Soil Moisture Sensors Market: Sales Value (in Million US\$), 2016 & 2021

Figure 52: Asia Pacific: Soil Moisture Sensors Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 53: China: Soil Moisture Sensors Market: Sales Value (in Million US\$), 2016 & 2021

Figure 54: China: Soil Moisture Sensors Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 55: Japan: Soil Moisture Sensors Market: Sales Value (in Million US\$), 2016 & 2021

Figure 56: Japan: Soil Moisture Sensors Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 57: India: Soil Moisture Sensors Market: Sales Value (in Million US\$), 2016 & 2021

Figure 58: India: Soil Moisture Sensors Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 59: South Korea: Soil Moisture Sensors Market: Sales Value (in Million US\$), 2016 & 2021

Figure 60: South Korea: Soil Moisture Sensors Market Forecast: Sales Value (in Million

US\$), 2022-2027

Figure 61: Australia: Soil Moisture Sensors Market: Sales Value (in Million US\$), 2016 & 2021

Figure 62: Australia: Soil Moisture Sensors Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 63: Indonesia: Soil Moisture Sensors Market: Sales Value (in Million US\$), 2016 & 2021

Figure 64: Indonesia: Soil Moisture Sensors Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 65: Others: Soil Moisture Sensors Market: Sales Value (in Million US\$), 2016 & 2021

Figure 66: Others: Soil Moisture Sensors Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 67: Europe: Soil Moisture Sensors Market: Sales Value (in Million US\$), 2016 & 2021

Figure 68: Europe: Soil Moisture Sensors Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 69: Germany: Soil Moisture Sensors Market: Sales Value (in Million US\$), 2016 & 2021

Figure 70: Germany: Soil Moisture Sensors Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 71: France: Soil Moisture Sensors Market: Sales Value (in Million US\$), 2016 & 2021

Figure 72: France: Soil Moisture Sensors Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 73: United Kingdom: Soil Moisture Sensors Market: Sales Value (in Million US\$), 2016 & 2021

Figure 74: United Kingdom: Soil Moisture Sensors Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 75: Italy: Soil Moisture Sensors Market: Sales Value (in Million US\$), 2016 & 2021

Figure 76: Italy: Soil Moisture Sensors Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 77: Spain: Soil Moisture Sensors Market: Sales Value (in Million US\$), 2016 & 2021

Figure 78: Spain: Soil Moisture Sensors Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 79: Russia: Soil Moisture Sensors Market: Sales Value (in Million US\$), 2016 & 2021

Figure 80: Russia: Soil Moisture Sensors Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 81: Others: Soil Moisture Sensors Market: Sales Value (in Million US\$), 2016 & 2021

Figure 82: Others: Soil Moisture Sensors Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 83: Latin America: Soil Moisture Sensors Market: Sales Value (in Million US\$), 2016 & 2021

Figure 84: Latin America: Soil Moisture Sensors Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 85: Brazil: Soil Moisture Sensors Market: Sales Value (in Million US\$), 2016 & 2021

Figure 86: Brazil: Soil Moisture Sensors Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 87: Mexico: Soil Moisture Sensors Market: Sales Value (in Million US\$), 2016 & 2021

Figure 88: Mexico: Soil Moisture Sensors Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 89: Others: Soil Moisture Sensors Market: Sales Value (in Million US\$), 2016 & 2021

Figure 90: Others: Soil Moisture Sensors Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 91: Middle East and Africa: Soil Moisture Sensors Market: Sales Value (in Million US\$), 2016 & 2021

Figure 92: Middle East and Africa: Soil Moisture Sensors Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 93: Global: Soil Moisture Sensors Industry: SWOT Analysis

Figure 94: Global: Soil Moisture Sensors Industry: Value Chain Analysis

Figure 95: Global: Soil Moisture Sensors Industry: Porter's Five Forces Analysis

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