

Global Volumetric Soil Moisture Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Volumetric Soil Moisture Sensor market size is expected to reach \$ 1070 million by 2032, rising at a market growth of 13.9% CAGR during the forecast period (2026-2032).

A Volumetric Soil Moisture Sensor is an instrument used to measure the water content in soil. Its principle is to detect changes in the volume of water in the soil to provide precise humidity data. These sensors primarily monitor the moisture levels in soil in real-time, making them widely applicable in agriculture, horticulture, and environmental monitoring. The volumetric moisture sensors provide quantitative data on soil moisture, typically relying on principles such as resistance, capacitance, Time Domain Reflectometry (TDR), and Frequency Domain Reflectometry (FDR). These sensors measure the electromagnetic wave's speed through the soil, correlating it with the moisture content. The data they provide is vital for improving irrigation efficiency, promoting crop growth, conserving water resources, and preventing soil erosion. With the rise of precision agriculture and smart farming, volumetric soil moisture sensors have become a core component of agricultural Internet of Things (IoT) systems, and the demand for these sensors is continuously growing due to global climate change and the promotion of sustainable agricultural policies.

Market Development Opportunities & Main Driving Factors

With the global push for sustainable development and agricultural modernization, the market for volumetric soil moisture sensors has encountered significant development opportunities. Firstly, the modernization of global irrigation demands is increasing, especially in arid and semi-arid regions where precise soil moisture monitoring can significantly improve water resource efficiency. Additionally, the unstable precipitation

patterns caused by global climate change have intensified the need for accurate irrigation and soil monitoring technologies, particularly in agricultural powerhouses like China, India, and the United States. Technological innovations, especially in sensor cost reduction, integration of wireless communication technologies, and the development of big data analytics platforms, have made these soil moisture sensors more efficient, precise, and broadly marketable. Policy environments also play a vital role, with governments across the world supporting water resource management, environmental protection, and water-saving irrigation. Subsidies and project supports have given sensor manufacturers an advantageous boost. Furthermore, manufacturers have reduced raw material costs through innovative product designs and new production processes, further stimulating market growth.

Third Paragraph: Market Challenges, Risks, & Restraints

Despite the strong growth potential of the volumetric soil moisture sensor market, challenges remain in terms of technological maturity, market acceptance, and cost control. The high precision required for these sensors results in higher production costs, particularly for devices designed for long-lasting use and high stability, which places a significant cost burden on medium and small enterprises. Additionally, while the technology for these sensors has matured, there are still significant performance discrepancies and varying technical standards in the market, leading to challenges in product comparability and the unification of industry standards. Market expansion also faces regional risks. For example, in some areas (such as parts of developing countries), the penetration of soil moisture monitoring equipment is still relatively low due to technological penetration and financial constraints. Changes in industry regulations and policies represent another potential risk. As environmental protection laws and water resource management policies become stricter, countries are raising their requirements for agricultural irrigation technologies, which could affect the market compliance of existing products.

Fourth Paragraph: Downstream Demand Trends

With the intelligent transformation of global agriculture, the downstream demand for volumetric soil moisture sensors is gradually expanding into precision agriculture, smart irrigation, and agricultural Internet of Things (IoT) technologies. In large-scale agricultural planting areas, especially those in water-scarce regions, agricultural enterprises are increasingly focusing on data-driven precise irrigation techniques. Soil moisture sensors have become an indispensable tool for these enterprises, helping them realize real-time monitoring and data analysis, thereby optimizing irrigation

management and saving water resources. Furthermore, in horticulture, landscaping, greenhouse farming, and other small-scale high-value crop production, precise water control is crucial, driving the sustained demand for related sensors. The demand in environmental protection and water resource management is also growing, particularly in urban greening and public landscape construction, where soil moisture monitoring is becoming increasingly important. Overall, the demand for accurate data and automated control systems continues to rise, which will further boost the demand for volumetric soil moisture sensors.

Fifth Paragraph: Regional Trends

Regionally, there are significant differences in the demand for volumetric soil moisture sensors. In North America, particularly the United States, the market demand is steadily growing due to the country's advanced agricultural technology and highly automated irrigation systems. With large-scale agricultural production, especially in the western regions where water resources are scarce, precision irrigation technology has become mainstream. The demand in China and the broader Asia-Pacific region is also rapidly increasing, driven by the modernization of agriculture in major agricultural nations like China and India. As these nations push forward with agricultural modernization, the application of sensor technologies for precise irrigation and farmland monitoring is becoming more widespread. In Europe, countries like Germany and the Netherlands are seeing growth in demand for soil moisture sensors due to their emphasis on environmental protection and water resource management. Other regions, such as Latin America and the Middle East, are gradually recognizing the importance of soil moisture monitoring technologies due to climate change and water scarcity issues, making these markets potential growth areas for the sensors.

This report studies the global Volumetric Soil Moisture Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Volumetric Soil Moisture Sensor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Volumetric Soil Moisture Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Volumetric Soil Moisture Sensor total production and demand, 2021-2032,

(Units)

Global Volumetric Soil Moisture Sensor total production value, 2021-2032, (USD Million)

Global Volumetric Soil Moisture Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Volumetric Soil Moisture Sensor consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Volumetric Soil Moisture Sensor domestic production, consumption, key domestic manufacturers and share

Global Volumetric Soil Moisture Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Volumetric Soil Moisture Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Volumetric Soil Moisture Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Volumetric Soil Moisture Sensor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Acclima (AU), AquaCheck (US), Decagon Devices (US), Delta-T Devices (US), Irrrometer Company (US), Sentek (AU), The Toro Company (US), AquaFlow (ZA), HydroSense (CH), Gardena (NL), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Volumetric Soil Moisture Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by

manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Volumetric Soil Moisture Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Volumetric Soil Moisture Sensor Market, Segmentation by Type:

Capacitive Sensor

Tensiometer

Time Domain Reflectometry (TDR) Sensor

Frequency Domain Reflectometry (FDR) Sensor

Resistive Sensor

Neutron Probe Sensor

Global Volumetric Soil Moisture Sensor Market, Segmentation by Measurement Depth:

Surface (0–30 cm)

Shallow (30–60 cm)

Medium (60–120 cm)

Deep (>120 cm)

Global Volumetric Soil Moisture Sensor Market, Segmentation by Power Supply Type:

Battery Powered

Solar Powered

External Power

Global Volumetric Soil Moisture Sensor Market, Segmentation by Soil Type Compatibility:

Sandy Soil

Clay Soil

Loam Soil

Peat

Gravel Soil

Global Volumetric Soil Moisture Sensor Market, Segmentation by Application:

Agriculture

Horticulture

Environmental Monitoring

Civil Engineering

Research & Education

Companies Profiled:

Acclima (AU)

AquaCheck (US)

Decagon Devices (US)

Delta-T Devices (US)

Irrrometer Company (US)

Sentek (AU)

The Toro Company (US)

AquaFlow (ZA)

HydroSense (CH)

Gardena (NL)

Novartis?CN?

LI-COR Biosciences (DE)

Fujiwara (JP)

Key Questions Answered:

1. How big is the global Volumetric Soil Moisture Sensor market?
2. What is the demand of the global Volumetric Soil Moisture Sensor market?
3. What is the year over year growth of the global Volumetric Soil Moisture Sensor

market?

4. What is the production and production value of the global Volumetric Soil Moisture Sensor market?
5. Who are the key producers in the global Volumetric Soil Moisture Sensor market?
6. What are the growth factors driving the market demand?

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