

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

<https://marketpublishers.com/r/G9F2D5231734EN.html>

Date: February 2026

Pages: 143

Price: US\$ 4,480.00 (Single User License)

ID: G9F2D5231734EN

Abstracts

The global Agricultural Soil Moisture Sensor market size is expected to reach \$ 81.35 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

AgAgricultural soil moisture sensors are sensing devices used to monitor soil moisture content in real time. Through measurement principles such as capacitance, resistance, or time-domain reflectometry, they convert changes in soil moisture into quantifiable electrical signals, providing data support for agricultural irrigation and crop management. These sensors are typically integrated with IoT systems, meteorological data, and irrigation control equipment, and are widely used in field planting, facility agriculture, orchards, and smart farmland scenarios to guide precision irrigation, reduce water costs, and improve crop yields and water resource utilization efficiency. In 2025, sales reached 759,000 units, with an average price of \$59, total production capacity of 850,000 units, and a gross profit margin of 38%.

From the demand side, as global agriculture moves towards smart and precision agriculture, soil moisture sensors are becoming the fundamental sensing unit of agricultural digital management systems. Accurately understanding soil moisture dynamics is not only crucial for improving irrigation efficiency and reducing water waste, but also directly impacts crop yield, quality, and the ability to manage fertilizer and water in tandem. In water-scarce regions, high-efficiency irrigation projects, and facility agriculture, real-time moisture data linked with irrigation control systems has become a standard requirement, transforming soil moisture sensors from simple 'monitoring tools' into 'precision irrigation decision-making gateways,' leading to a continuous increase in market penetration.

From a technological and competitive perspective, the agricultural soil moisture sensor market is upgrading from basic product types to high-precision, intelligent networked systems. On one hand, more stable and weather-resistant high-precision sensing technologies such as FDR/TDR are gradually being adopted by agricultural enterprises and research institutions to meet the needs of long-term deployment in large fields and precision agricultural management. On the other hand, wireless communication, low-power design, and deep integration with field control systems are extending products from single-point measuring instruments to integrated solutions encompassing 'sensing + communication + data services.' Future market competition will no longer focus solely on single-machine performance, but will instead concentrate on system compatibility, data reliability, and overall operation and maintenance support capabilities. Vendors with strong ecosystem integration capabilities are expected to gain an advantage in the process of building smart agriculture.

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

This report is a detailed and comprehensive analysis of the world market for Agricultural 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 Agricultural Soil Moisture Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Agricultural Soil Moisture Sensor total production and demand, 2021-2032, (K Units)

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

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

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

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

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

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

Global Agricultural Soil Moisture Sensor production by Application, production, value,

CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Agricultural 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 SONKIR, VIVOSUN, Edaphic Scientific Pty Ltd, Luster Leaf, Kensizer, REOTEMP, Riot Technology Corp., SoilSense, Soil Scout, Chameleon, 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 Agricultural Soil Moisture Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Agricultural Soil Moisture Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Agricultural Soil Moisture Sensor Market, Segmentation by Type:

Wired

Wireless

Global Agricultural Soil Moisture Sensor Market, Segmentation by Installation & Measurement Method:

Surface Insertion Type

Profiling Type

Probe Type

Fixed Embedding Type

Global Agricultural Soil Moisture Sensor Market, Segmentation by Measurement Principle:

Capacitive Soil Moisture Sensor

Resistive Soil Moisture Sensor

Frequency Domain Reflectance (FDR) Sensor

Time Domain Reflectance (TDR) Sensor

Global Agricultural Soil Moisture Sensor Market, Segmentation by Application:

Plant Research

Environmental Research

Farm

Others

Companies Profiled:

SONKIR

VIVOSUN

Edaphic Scientific Pty Ltd

Luster Leaf

Kensizer

REOTEMP

Riot Technology Corp.

SoilSense

Soil Scout

Chameleon

Hunan Rika

EOS Data Analytics, Inc.

Farmo

Kestrel

Vernier

Farm21

Key Questions Answered:

1. How big is the global Agricultural Soil Moisture Sensor market?
2. What is the demand of the global Agricultural Soil Moisture Sensor market?
3. What is the year over year growth of the global Agricultural Soil Moisture Sensor market?
4. What is the production and production value of the global Agricultural Soil Moisture Sensor market?
5. Who are the key producers in the global Agricultural Soil Moisture Sensor market?
6. What are the growth factors driving the market demand?

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