

Global Agricultural Soil Moisture Sensor Market Growth 2026-2032

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Abstracts

The global Agricultural Soil Moisture Sensor market size is predicted to grow from US\$ 44.02 million in 2025 to US\$ 79.59 million in 2032; it is expected to grow at a CAGR of 8.8% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Agricultural Soil Moisture Sensor Industry Forecast" looks at past sales and reviews total world Agricultural Soil Moisture Sensor sales in 2025, providing a comprehensive analysis by region and market sector of projected Agricultural Soil Moisture Sensor sales for 2026 through 2032. With Agricultural Soil Moisture Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Agricultural Soil Moisture Sensor industry.

This Insight Report provides a comprehensive analysis of the global Agricultural Soil Moisture Sensor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Agricultural Soil Moisture Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Agricultural Soil Moisture Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Agricultural Soil Moisture Sensor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Agricultural Soil Moisture Sensor.

This report presents a comprehensive overview, market shares, and growth

opportunities of Agricultural Soil Moisture Sensor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Wired

Wireless

Segmentation by Installation & Measurement Method:

Surface Insertion Type

Profiling Type

Probe Type

Fixed Embedding Type

Segmentation by Measurement Principle:

Capacitive Soil Moisture Sensor

Resistive Soil Moisture Sensor

Frequency Domain Reflectance (FDR) Sensor

Time Domain Reflectance (TDR) Sensor

Segmentation by Application:

Plant Research

Environmental Research

Farm

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Agricultural Soil Moisture Sensor market?

What factors are driving Agricultural Soil Moisture Sensor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Agricultural Soil Moisture Sensor market opportunities vary by end market size?

How does Agricultural Soil Moisture Sensor break out by Type, by Application?

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