

Global Soil Nutrient Sensor Market Growth 2026-2032

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Abstracts

The global Soil Nutrient Sensor market size is predicted to grow from US\$ 607 million in 2025 to US\$ 1335 million in 2032; it is expected to grow at a CAGR of 11.8% from 2026 to 2032.

In 2025, global Soil Nutrient Sensor production reached approximately 1.8 million units, with an average global market price of around USD 350 per unit.

The gross profit margin of major companies in the industry is between 35%–50%.

In 2025, the global production capacity of Soil Nutrient Sensor was approximately 2.3 million units.

Soil Nutrient Sensor refers to precision agricultural sensing devices designed to measure nutrient-related parameters in soil for crop management and precision farming applications. These sensors use electrochemical, optical, or ion-sensitive technologies to detect soil nutrients such as nitrogen, phosphorus, potassium, and other fertility indicators. They are widely used in precision agriculture, smart irrigation, fertilizer management, farmland monitoring, and agricultural research. The product scope includes portable and fixed soil nutrient sensing devices, excluding laboratory-only soil analysis instruments.

The industry chain of Soil Nutrient Sensor includes upstream electronic components, midstream sensor manufacturing, and downstream agricultural applications. Upstream suppliers provide sensing elements, chips, communication modules, batteries, and electronic components. Midstream manufacturers conduct sensor design, calibration, hardware integration, data processing development, and performance testing. Downstream applications include farms, agricultural enterprises, research institutions, and precision agriculture service providers requiring real-time soil fertility monitoring

solutions.

United States market for Soil Nutrient Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Soil Nutrient Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Soil Nutrient Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Soil Nutrient Sensor players cover Trimble Inc., Veris Technologies, Inc., METER Group, Inc., Pessl Instruments GmbH, Stevens Water Monitoring Systems, Inc., etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Soil Nutrient 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 Soil Nutrient Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Soil Nutrient Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Soil Nutrient 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 Soil Nutrient Sensor.

This report presents a comprehensive overview, market shares, and growth opportunities of Soil Nutrient Sensor market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Nitrogen Sensor

Phosphorus Sensor

Potassium Sensor

Segmentation by Sensing Technology:

Electrochemical Soil Sensor

Optical Soil Sensor

Ion Selective Soil Sensor

Segmentation by Detection Depth:

Shallow Detection Sensor (<20 cm)

Medium Detection Sensor (20–50 cm)

Deep Detection Sensor (>50 cm)

Segmentation by Application:

Crop Production

Agricultural Research

Fertilizer Management

Other

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.

Trimble Inc.

Veris Technologies, Inc.

METER Group, Inc.

Pessl Instruments GmbH

Stevens Water Monitoring Systems, Inc.

Campbell Scientific, Inc.

Spectrum Technologies, Inc.

Delta-T Devices Ltd.

Yara International ASA

Beijing Top Cloud-Agri Technology Co., Ltd.

Shandong Renke Control Technology Co., Ltd.

Hunan Rika Electronic Tech Co., Ltd.

Shenzhen KingTera Technology Co., Ltd.

Key Questions Addressed in this Report

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

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

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

How do Soil Nutrient Sensor market opportunities vary by end market size?

How does Soil Nutrient Sensor break out by Type, by Application?

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