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

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Abstracts

The global Soil Nutrient Sensor market size is expected to reach $ 1353 million by 2032, rising at a market growth of 11.1% CAGR during the forecast period (2026-2032).

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,

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and precision agriculture service providers requiring real-time soil fertility monitoring solutions.

Report Scope

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

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This report profiles key players in the global Soil Nutrient 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 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., 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 Soil Nutrient 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 Soil Nutrient Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

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India

Rest of World

Market Segmentation

Global Soil Nutrient Sensor Market, Segmentation by Type:

Nitrogen Sensor

Phosphorus Sensor

Potassium Sensor

Global Soil Nutrient Sensor Market, Segmentation by Sensing Technology:

Electrochemical Soil Sensor

Optical Soil Sensor

Ion Selective Soil Sensor

Global Soil Nutrient Sensor Market, Segmentation by Detection Depth:

Shallow Detection Sensor (<20 cm)

Medium Detection Sensor (20–50 cm)

Deep Detection Sensor (>50 cm)

Global Soil Nutrient Sensor Market, Segmentation by Application:

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Crop Production

Agricultural Research

Fertilizer Management

Other

Companies Profiled:

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.

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Key Questions Answered

1. How big is the global Soil Nutrient Sensor market?
2. What is the demand of the global Soil Nutrient Sensor market?
3. What is the year over year growth of the global Soil Nutrient Sensor market?
4. What is the total value of the global Soil Nutrient Sensor market?
5. Who are the Major Players in the global Soil Nutrient Sensor market?
6. What are the growth factors driving the market demand?

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