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

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Abstracts

The global Agricultural Sensor Node market size is expected to reach $ 1573 million by 2032, rising at a market growth of 10.3% CAGR during the forecast period (2026-2032).

In 2025, global Agricultural Sensor Node production reached approximately 4.2 million units, with an average global market price of around USD 180 per unit.

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

In 2025, the global production capacity of Agricultural Sensor Node was approximately 5.6 million units.

Agricultural Sensor Node refers to compact wireless sensing devices designed to collect and transmit agricultural environment and crop-related data. These nodes integrate sensors, communication modules, microcontrollers, and power management components to monitor parameters such as soil moisture, temperature, humidity, light intensity, and crop growth conditions. They are widely used in precision agriculture, smart irrigation, greenhouse management, and farmland monitoring. The product scope includes standalone sensor nodes and networked agricultural sensing terminals, excluding simple standalone sensors without communication functions.

The industry chain of Agricultural Sensor Node includes upstream electronic components, midstream sensor node manufacturing, and downstream agricultural applications. Upstream suppliers provide sensors, chips, communication modules, batteries, and electronic components. Midstream manufacturers conduct hardware integration, firmware development, enclosure design, calibration, and system testing. Downstream applications include farms, agricultural enterprises, greenhouse operators,

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and precision agriculture service providers requiring real-time agricultural data collection and monitoring solutions.

Report Scope

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

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

Highlights and key features of the study

Global Agricultural Sensor Node total production and demand, 2021-2032, (Units)

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

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

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

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

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

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

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Global Agricultural Sensor Node production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Agricultural Sensor Node 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 Onset Computer Corporation, Campbell Scientific, Inc., Libelium Comunicaciones Distribuidas S.L., Monnit Corporation, Pessl Instruments GmbH, METER Group, Inc., Sentera, Inc., CropX Technologies Ltd., Semios Technologies Inc., Davis Instruments Corp., 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 Sensor Node 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 Agricultural Sensor Node Market, By Region:

United States

China

Europe

Japan

South Korea

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ASEAN

India

Rest of World

Market Segmentation

Global Agricultural Sensor Node Market, Segmentation by Type:

Soil Monitoring Sensor Node

Environmental Monitoring Sensor Node

Crop Monitoring Sensor Node

Global Agricultural Sensor Node Market, Segmentation by Communication Technology:

Wireless Sensor Node

LoRa-Based Sensor Node

Cellular Sensor Node

Global Agricultural Sensor Node Market, Segmentation by Operating Temperature Range:

Standard Temperature Node (-20? to 60?)

Wide Temperature Node (-40? to 85?)

Extreme Temperature Node (<-40? or >85?)

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Global Agricultural Sensor Node Market, Segmentation by Application:

Crop Production

Livestock Farming

Agricultural Research

Other

Companies Profiled:

Onset Computer Corporation

Campbell Scientific, Inc.

Libelium Comunicaciones Distribuidas S.L.

Monnit Corporation

Pessl Instruments GmbH

METER Group, Inc.

Sentera, Inc.

CropX Technologies Ltd.

Semios Technologies Inc.

Davis Instruments Corp.

Shandong Renke Control Technology Co., Ltd.

Beijing TOP Cloud-Agri Technology Co., Ltd.

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Ningbo Sentek Electronics Co., Ltd.

Xiamen Four-Faith Communication Technology Co., Ltd.

Hangzhou Hikvision Digital Technology Co., Ltd.

Qingdao Topscomm Communication Co., Ltd.

Key Questions Answered

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

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