

Global Active Precision Agricultural Sensors Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Active Precision Agricultural Sensors market size was valued at US\$ 1946 million in 2024 and is forecast to a readjusted size of USD 3664 million by 2031 with a CAGR of 9.6% during review period.

Active precision agricultural sensors emit a light source into the plant canopy while measuring the percentage of light reflected from the canopy to the sensor. IoT-based remote sensing utilizes sensors placed along farms, such as weather stations, to collect data, which is then transmitted to analytics tools for analysis. These sensors help understand plants at the microscopic scale to conserve resources and reduce environmental pollution. Many sensor technologies are implemented in precision agriculture and provide data to help farmers monitor and optimize crop yields.

Agricultural sensors are rapidly gaining popularity among farmers due to the increasing demand for optimal production of a given resource. Additionally, changing weather patterns due to increasing global warming require advanced sensors to increase productivity and crop yields. By providing advanced sensors, farmers are able to perform real-time farm monitoring, weather forecasts, optimal field requirements, and more. Agricultural sensors enable farmers to increase yields with minimal labor and waste.

This report is a detailed and comprehensive analysis for global Active Precision Agricultural Sensors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as

well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Active Precision Agricultural Sensors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Active Precision Agricultural Sensors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Active Precision Agricultural Sensors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Active Precision Agricultural Sensors market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Active Precision Agricultural Sensors

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Active Precision Agricultural Sensors market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Texas Instruments, CropX, Auroras, Vishay, Mouser, Honeywell, Caipos GmbH, Bosch, CropIn Technology Solutions, Avidor High Tech, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Market Segmentation

Active Precision Agricultural Sensors market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Location Sensors

Humidity Sensors

Electrochemical Sensors

Mechanical Sensors

Airflow Sensors

Others

Market segment by Application

Soil Management

Climate Management

Water Management

Smart Green House

Others

Major players covered

Texas Instruments

CropX

Auroras

Vishay

Mouser

Honeywell

Caipos GmbH

Bosch

CropIn Technology Solutions

Avidor High Tech

Sensaphone

Dol-Sensors

Glana Sensors

Libelium Comunicaciones Distribuidas

Monnit Corporation

Pycno Agriculture

Sensoterra

Sentera

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Active Precision Agricultural Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Active Precision Agricultural Sensors, with price, sales quantity, revenue, and global market share of Active Precision Agricultural Sensors from 2020 to 2025.

Chapter 3, the Active Precision Agricultural Sensors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Active Precision Agricultural Sensors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Active Precision Agricultural Sensors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Active Precision Agricultural Sensors.

Chapter 14 and 15, to describe Active Precision Agricultural Sensors sales channel, distributors, customers, research findings and conclusion.

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