The new precision agriculture solution Bosh Field Monitoring was presented at FIMA

The application of the Internet of Things (Internet of Things) is getting stronger and stronger in agriculture. It is a segment for which the Bosch group, a global provider of technology and services, estimates a market potential of one billion euros worldwide. According to these forecasts, Bosch has presented in Spain, in the latest edition of the International Fair of Agricultural Machinery of Zaragoza (FIMA), its solution of precision agriculture Bosch Field Monitoring, already installed in crops such as the vineyard, citrus, the red fruits, the tomato and the olive grove. *Through this tool, a greater monitoring and control of crops is sought to optimize resources, a growing need, especially in the current context of extreme situations caused by drought and frost, as a result of climate change*.

The configuration of alarms offered by the application of this system helps to avoid the total

> or partial loss of production due to frost. Thanks to the measurement of the wet bulb temperature at any time, the farmer can take the appropriate preventive measures

In addition, *Bosch Field Monitoring prevents misuse of water, as it also measures soil moisture, allowing you to determine when and how much to water. Additionally, it controls the temperature and humidity of the plant*. In this way, when the producer receives the alarm on his smartphone, he has a margin of time to react, either activating sprinkler irrigation to prevent damage by freezing, opening the greenhouse to reduce environmental humidity and prevent the appearance of fungi , or activating the irrigation system so that the soil is not too dry.

In short, it is a very simple and easy to install solution, which aims to help the farmer make the best decisions thanks to access to information about the state of the field at any time and in any place. In addition, this solution is amortized in the first months of use, thanks to the optimization of resources.

Latest claims from Bosch at FIMA

The Field Monitoring system, developed by the start-up Deepfield Robotics of Bosch, has been the protagonist of the stand with which the leading company in technology and services has been present at the 40th International Fair of Agricultural Machinery 2018 (FIMA), which has celebrated from 20th to 24th February in Zaragoza.

Another of the latest innovations that Bosh's booth has been able to find at this fair was Milk Monitoring, *a sensor that measures the temperature of the milk in the tank, making it possible to know if it is being preserved under optimum conditions*.

Currently, this technology is in its final phase of development and will soon be available in the Iberian market. As explained by Thijs Verploegen, product manager of Milk Monitoring: "It is crucial that the agitator, cleaning and cooling work properly and that the milk does not exceed 4 ° C temperature for several hours, because if this happens, the amount of germs increases and milk is not suitable for human consumption, causing significant economic losses to the farmer.

The operating principle of this system is based on the same as the previous Bosch developments for the agricultural sector. The sensors are simple to use and install, and are scalable, so they are valid for all types of milk tanks, regardless of the model, manufacturer or age of the same. This also makes it possible to modernize the facilities at a low cost.

> Milk Monitoring is accompanied by an application for mobile devices that alerts farmers when the refrigeration chain breaks, allowing them to act in time before the milk cracks

Agriculture 'in the cloud'

Bosch leverages its expertise in sensor technology, software and services to apply it to new market sectors, such as smart cities, smart homes, eMobility, Industry 4.0 and smart agriculture. The objective is to offer innovative solutions based on the Internet of Things (IoT) to achieve a connected world. Only in four years, it is estimated that 14 billion devices will be connected, including appliances, security cameras, vehicles and industrial machines.

> Estefanía Hernández, responsible for the development of Smart Agro in Spain: "In the agricultural field, the goal of Bosch is to achieve a more sustainable and efficient agriculture through solutions that are easy to use and install, and that are economically affordable

According to BI Intelligence, *there are currently more than 43 million connected objects in the agricultural sector and it is estimated that, in 2020, 500,000 data points per day will be generated per farmer, which highlights the great potential of this market*".

Thanks to all these data, the producer can make better decisions based on accurate information in real time, avoiding situations of freezing, overheating, appearance of fungi and improper use of water during irrigation.

> With this type of solutions based on the Internet of Things, the farmer can increase their profitability by 1.5 percent and achieve a cost reduction of between 3 and 6 percent

Source: Bosch

YOU MIGHT ALSO LIKE:

??FIMA reaffirms its international leadership, exceeding 240,000 visitors

SIMEZA
MASA
JCB
JCB
JCB
JCB
JCB