GSM Based Green House Monitoring System

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Abstract: Now-a-days agriculture is very important and everything can be monitored and controlled automatically. Monitoring and controlling the environment within hot temperatures is considered light, temperature, humidity, soil moisture, etc.

Keywords: temperature control, GSM temperature using sensors.

1. Introduction

In today's greenhouse, multi-parameter measurements are required to monitor and control good growth and crop production. but to get the results you want there are very important factors such as temperature, humidity, light and water needed for better plant growth. This program is excellent for growing high quality plants

A greenhouse is a residential building specially designed to provide a portable environment for better crop production, crop protection, crop planting and replanting.

2. Literature Survey

Md Jiabul Hoque, Md. Razu Ahmed and Saif Hannan presented a paper on "An Automated Greenhouse Monitoring and Controlling System using Sensors and Solar Power" an existing work with a thermal framework that provides a flexible environment to increase crop production. Tropical planning is a process in which a suitable crop area is provided and improve the performance of farmers. To create an efficient temperature system, the following parameters such as temperature, light, humidity and soil moisture must be adjusted in such a way that the various plants grow well.

Priyanka P. Deshmukh, Swarup D. Deshmukh presented a paper on "Green House Wonitoring and Control Using GSM Android" in this program the ability to lack the ability to control internal humidity and another parameter. GSM-SMS and sensors are used to sense the required temperature limits and data is transmitted using a wireless connection.it is used to measure various parameters such as temperature, humidity, light and soil moisture. the values of these sensors are displayed on the LCD. These sensors express sensitivity and are assigned to the ADC. This is a system for user communication with the central unit using SMS. The unit communicates with the system via SMS to be accepted by GSM with the help of a SIM card. The system controls parameters such as humidity, temperature, light, soil moisture through various sensors and sets the different threshold values set on each parameter by the user depending on the weather requirements required for the greenhouse.

Omar Sedqi Kareem, Noor Najeeb Qaqos presented the paper with the "Real-Time Implementation of Greenhouse Monitoring System based on the Wireless Sensor Network" as it is used to control microclimatic barriers in the greenhouse. Depending on the PC to get data and monitor location by sending a command via the link node. a widely used system for controlling and measuring environmental parameters in a tropical environment depends on the data transmission cable connection.

Heat systems are designed to monitor and control microclimatic parameters, such as temperature, humidity, gas level, and light intensity to provide the best environment for plants to grow within seedling storage areas. In addition, the traditional system required a large number of means of communication and this would add to the difficulties in crop farming, where system maintenance would be easier and more secure with regard to crops or the farm and better monitoring of what greenhouse control could do to reduce effort and cost.

Temuçin Göktürk Seyhan, Uğur Yegül, Musa Ayik, presented the paper "Design of a Greenhouse Monitoring System Based on GSM Technologies" in this study, to detect damage to plants. Software and Hardware was developed that translated data from sensors and transmitted data to the GSM terminal. This data was used to identify data loss through a GSM connection.

3. Conclusion

This presented an overview on the construction of a complete automated temperature control system. From the test, it can be seen that it meets all the requirements related to monitoring the temperature in the house. Automatic temperature sensor design can help increase plant productivity.

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