

What is a greenhouse intelligent monitoring system based on plc & Kingview software?

Abstract: In order to realize the real-time perception and intelligent monitoring of greenhouse environmental information and provide the best environment for flower growth, this paper develops a set of greenhouse intelligent monitoring system based on PLC and Kingview software. The system includes an upper computer and a lower computer.

What is a comprehensive control system for an intelligent Greenhouse?

In this paper,a comprehensive control system for an intelligent greenhouse was designed,with Mitsubishi PLCand MCGS as the core components,based on the specific growth requirements of plants. The system consists of two main parts: hardware and software.

Can a PLC automate a smart greenhouse?

This project focuses on automating key systems of a smart greenhouse using a PLC (Programmable Logic Controller) to optimize resource use, improve crop production, and streamline operations.

What is a smart greenhouse control system?

The promotion of automated and quality. In this paper,a smart greenhouse control system is designed using Mitsubishi PLC and MCGSas the core of the underlying control. It provides ease of use and high stability,offering a good growing environment to promote the improvement of cultivation level. 1.1. Important Factors of Smart Greenhouse

How a smart sensor block is developed in a solar greenhouse?

A new smart sensor block is developed in the system to acquire field environment factor, which can reduce complex routing and increase reliability of the whole system. The model of solar greenhouse is introduced and fuzzy control is adopted in control unit. Besides, a friendly human-computer interface is developed by LabVIEW.

What is a greenhouse control system?

An automatic control system includes sensors, PLC and actuators . Greenhouse ventilation is most important for controlling the temperature, relative humidity and CO₂ level. A good ventilation in the greenhouse can be achieved with a combination of a roof vent, front doors and fans .

According to the actual need of environmental monitoring of double-film solar greenhouse in cold and arid area, the greenhouse thermal insulation and ventilation control system based on PLC ...

This system not only has a low construction cost but also requires minimal additional energy consumption during operation. However, due to the lack of dedicated heat collection devices ...

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