

Design of a control and monitoring system for environmental parameters in an orchid greenhouse model.

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Abstract: This study proposes an environmental parameter control and monitoring system for an orchid greenhouse model, aiming to meet the stringent requirements for humidity, temperature, light, and CO₂ during orchid development. By integrating theoretical research methods with experimentation, this project not only provides an effective automation solution for the orchid cultivation industry but also makes a significant contribution to research on intelligent control systems. The expected outcome is a substantial enhancement in orchid yield and product quality.

Keywords: Environmental control and monitoring system, orchid greenhouse, automation, CO₂