

AGRICULTURAL AUTOMATION SYSTEM

Automation system for the agricultural industry



Gardeniacloud

www.gardeniacloud.com

AUTOMATED SYSTEMS

IRONIL SIA 2024

RIGA, LATVIA

SYSTEM DESCRIPTION



- **Process automation: Management of irrigation, lighting, and microclimate to increase productivity.**
- **Environmental monitoring: Monitoring of temperature, humidity, light levels, and soil conditions to ensure optimal growing conditions..**
- **Individual customisation: Flexible adjustable timers and algorithms for water preparation, irrigation, lighting, and ventilation, tailored to specific plants according to client needs.**
- **Convenience: HMI with a touchscreen.**
- **Remote monitoring and process control using 4G/Wi-Fi connectivity.**

SYSTEM DESCRIPTION

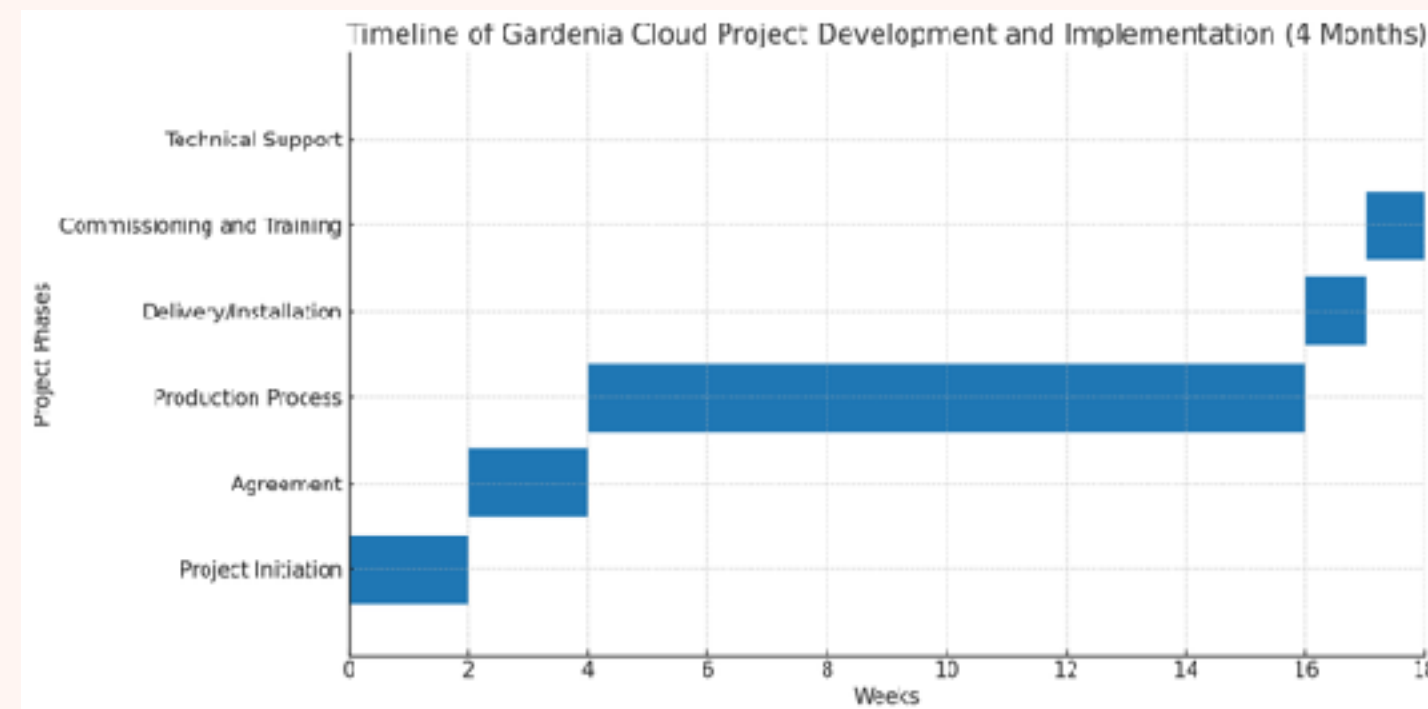


- **Efficiency and sustainability:** Resource saving and minimal impact on the environment.
 - **Multilingual interface support:** Ability to select a language for convenient use.
 - **Industrial design and IP68 protection:** The casing is designed for operation in harsh conditions, ensuring long-term protection against dust and water.
 - **Industrial communication protocol:** Use of the **MODBUS** communication protocol for reliable communication and integration with other systems.
 - **Efficiency and sustainability:** Rational use of water, electricity, and fertilizers to reduce costs and minimize environmental impact.
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COLLABORATION PROCESS

Where to start? How to determine the scope of work? What is needed?

1. Project initiation



**Specialist visit to the site for project coordination.
Our specialists will consult you on all matters:**

- algorithms;
- mimic diagrams; cyclograms;
- timeline;
- Cost estimation and agreement on the budget
- We select the optimal solution according to your requirements, coordinate it, and finalize the contract.

2. Contract signing

COLLABORATION PROCESS

Where to start? How to determine the scope of work? What is needed?

3. Production process



- **We design electrical schematics;**
- **We manufacture, assemble, program, and thoroughly test the equipment before handing over to the customer.**

COLLABORATION PROCESS

Where to start? How to determine the scope of work? What is needed?

4. Delivery/installation

- **We will deliver the equipment to your site at the previously agreed time.**

5. Commissioning

- **We will deliver the equipment to your site at the previously agreed time.**

6. Training and Support

- **We will provide technical support and training for equipment configuration and operation.**
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