

Argus provides advanced control systems that are customized to each grower's requirements and adaptable to their changing needs, enabling users to operate their facility the way they want. With over thirty years of leadership and innovations in control technology, Argus Controls are used by growers throughout the world to control their facilities for horticulture, agriculture and biotechnology research, as well as other applications. An Argus system provides intelligent control of climates, lighting, irrigation, and nutrients.



Service and support

All Argus Systems are fully designed for remote support. Argus will provide the necessary steps to ensure proper installation system commissioning, and operator training. In addition to routine assistance, it provides 24/7 after-hours, weekend, and holiday emergency support.

Climate Control

- Multi-day temperature averaging options provide precision crop timing and energy savings.
- Climate energy balancing algorithms match the heating/cooling demand to outdoor conditions.
- Coordinated management of shade curtains, ventilations, pads/fans, mist/fog & heating equipment.
- Dynamic weather and wind sensitive application for controlling roof vents and open roof greenhouses.
- Global weather programming models for simulating daily light intensities and climate conditions at any location.

Lighting Control

- Management of all lighting equipment types and lighting strategies.
- Daily light integral (DLI) management to achieve target light levels using the least amount of energy.
- Advanced control options for LED lighting systems, including instantaneous light intensity control, spectra control, and full-day lighting simulations.

Advanced Irrigation and Fertigation

- Comprehensive control of irrigation systems and application methods.
- Control of any type of pump, irrigation valve, flood floor, flood table, or watering boom.

- Built-in modeling of water demand, such as light accumulation, evapotranspiration, leachate volumes and EC measurement.
- Support for moisture sensors and crop water status indicators.
- Argus Multi-Feed fertigation equipment manages multi-feed recipes using A/B ratio feeding or single element dosing.

Monitoring solutions

- Supplemental CO2 control based on crop demand, time, and light levels.
- Crop status monitoring using load cells, light imagery, and other specialized instrumentation.
- Pressure differential monitoring for negative or positive pressure containments.

Data acquisition

- Records all settings, readings, and crop parameters.
- Collect data from advanced sensor systems for measuring light, carbon dioxide, oxygen, fruit loading, moisture, water flow, leachate volumes, and more
- Review recorded data in a full-featured graphing tool for better understanding of your production environment.
- Information from the Argus System can be used to build and create your own tools for analysis and decision making with its API capability.