INTEGRATED Control Systems for Aquaponics
Argus has a proven track record in commercial and research aquaponics facilities. With decades of field-tested performance controlling greenhouse climates, irrigation, water management and water quality monitoring applications, we understand the precision requirements of modern aquaponics production systems. We provide the latest technology, the most flexible and intelligent control strategies, and we back up our systems with great customer support.

**Facility Wide Control**

An Argus system puts you in complete command of your facility. Intelligent automation of your equipment and comprehensive monitoring of current conditions enables you to simply ‘dial-in’ your desired production parameters. The system works continuously to automatically maintain your critical setpoints and targets ensuring that both your aquaculture and greenhouse production sub-systems are run optimally.

**Comprehensive Monitoring**

Continuous monitoring and alarm functions provide maximum protection for your facility and the earliest possible warning of equipment problems and out-of-bounds conditions. In addition to raising alarms, the Argus system can even execute automatic ‘fall-back’ measures to safeguard your equipment, fish and plants during emergencies. Just one averted catastrophe could pay for your entire system!

**Control it Your Way**

Most aquaponics facilities use unique equipment configurations and proprietary processes. Argus is an excellent fit for these applications – our systems feature the power and flexibility needed for accomplishing a broad range of precision control and monitoring tasks. We fully configure each system to your specifications and you are never tied to any particular brand of equipment or sensor. Neither are you limited to the type or scope of monitoring and control strategies that you can accomplish.
Experience
✔ Argus has over 30 years experience in automated control and monitoring systems.
✔ We specialize in controls for a wide range of bio-production applications including greenhouses, growth rooms, fish hatcheries, aquaculture systems, and aquaponics.

Comprehensive Monitoring and Control
✔ An Argus system can provide monitoring and automated control of all processes and equipment used in your facility.
✔ Extensive central management capabilities ensure optimum operating efficiency and precision control integration of critical processes such as oxygen saturation, water quality, and flow management.
✔ Sophisticated alarm logic and alarm annunciation options can be configured including an Argus Cloud notification service for delivering auto-generated reports and system alerts via e-mail.
✔ Comprehensive data recording of all sensor values, equipment states, and process control variables is standard on all systems.
✔ A full-featured graphing utility is included for tracking critical variables and equipment performance over time.

Habitat Management
✔ Monitor and manage your aquatic environments including temperatures, oxygenation/ORP, CO2, pH, EC/TDS/salinity, light levels & photo-periods, feeder operation, etc.

Greenhouse Climate Control
✔ Argus is a recognized leader in precision controls for greenhouses and horticulture production facilities.
✔ Integrated control of all greenhouse equipment.

Water Management, Treatment and Quality
✔ Argus can provide continuous monitoring and control of all water quality parameters and treatment processes.
✔ We provide custom instrumentation interfacing and automation for specialized equipment systems used for solids removal, chemical treatment, bio-filtration, protein skimming, gas balancing, turbidity, ammonia, disinfection, etc.
✔ All water handling processes can be fully automated including precision control of pumps, filters, flow rates, pressures, levels, temperatures and influent/effluent rates.

Secure Remote Management
✔ Simultaneous multi-user access from on-site and remote locations. No matter where you are in relation to you facility you can have complete access to all your operator settings, readings and status reports.

Stay in touch with your facility while on the move with custom email reports and alarm notifications.
Argus is a highly trusted name in automated controls. We specialize in monitoring and automation of biological facilities, including aquaponics research and production. With over 30 years in business and thousands of installations throughout the world, we have the knowledge and depth of experience to design a custom control solution to best fit your requirements.

Argus provides complete hardware and software control solutions. Our systems feature custom designed state-of-the-art components with advanced control intelligence for superior reliability and application flexibility. We custom configure each system to your precise requirements and future expansion capacity is unlimited.

All control components are low voltage ‘plug and run’ modules for easy field replacement. Output modules contain manual override switches for easy system troubleshooting and emergency override control.

**Integrated Relay Panels**

For ease of installation, Argus can also provide custom designed UL listed line voltage relay interfacing panels pre-wired for your equipment loads and ready for mounting.

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**Legendary Service & Support**

We support our systems extensively with fast, low-cost service. With a dedicated team of service professionals providing routine technical assistance and 24/7 emergency support, we take care of the technical details so you can focus on your business activities.

**Designed for Remote Support and Serviceability**

Eliminate expensive site visits and long waits for service calls - the Argus system is designed with advanced remote diagnostic and service capabilities for fast, efficient support by Argus service professionals.

**No User Programming Required**

Our systems are fully programmed and preconfigured to your specifications. With our extensive remote support capabilities we're available to directly assist you with technical matters.

**Modular parts are easily serviceable**

An on-site inventory of easily replaceable spare parts ensures maximum 'up-time' no matter where your facility is located.

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Contact us for assistance in planning your monitoring and control automation requirements. We can help analyze your facility from a controls perspective and we’ll work with your design engineering team to help you to plan for optimum performance, safety, and manageability.