

Argus Controls

Integrated solutions estimating guide

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The Argus difference

Argus is a fully integrated control system that controls multiple climate zones, irrigation systems and nutrient dosing, all accessed remotely from the user's computer. Some key features of the Argus system are:

- Argus has a long-established reputation for high quality, in-depth capability, extreme reliability, and excellent customer support.
- Highly flexible hardware deployment options and software configuration to meet your performance specifications.
- Argus systems are infinitely expandable.
- End-to-end system integration for seamless installation and operation.
- Custom system configuration by Argus (no user configuration or programming is required).
- Argus systems are able to communicate with other systems and control other equipment via diverse protocols, as well as via standard digital and analog controls.
- Long operational life span.
- We invest in R&D to continuously provide our clients with the best solutions.
- Argus systems have extensive on-board diagnostic capabilities to assist with remote troubleshooting incidents.
- Remote 24/7 service for the lifetime of the system.
- Constantly monitors critical conditions and control variables acting as an early warning system for power failures and equipment failures.

To learn more about the Argus difference, visit: <http://arguscontrols.com/about-argus/why-argus/>



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Essential Elements

The Titan software allows users to access the Argus System from a remote PC – or the same PC where the Core Server is located - while providing innovative and valuable attributes. It is important to note that this software will require controllers and sensors to control. Control system and/or Multi-Feed Nutrient Injection System are in addition to buying the software.

Basic	Enterprise
<p>With the Basic package, user will have a platform to – among other things- control climates, irrigation and nutrient dosing. Also, includes base system access point (gateway) with alarm outputs, auto dialer, system spare parts kit, <i>(and weather station - if required)</i>. It does not include a PC, but it can be added.</p> <p>Multi-User Access: Allows multiple users to access the Argus system, at one time, and simultaneously make changes.</p>	<p>Basic package <i>plus</i> the following applications:</p> <p>Enhanced Password Control: Every user has a password to log into Argus and has capabilities to view and make changes based on what the master user allows them to access.</p> <p>Audit Tracking: The software will document the time and date of every change made to the Argus system and show the username of who made the changes.</p> <p>Email notification of alarms and status'</p>
Starting from \$23,000	Starting from \$28,000

Add-Ons

Enhanced Graphs	For a more simple and efficient data analysis. It includes: Multiple graphs, annotations and enhanced toolbar.	\$416
Graphical Link View	Learn the underlying linkage between multiple elements by understanding the logical pathways of a specific parameter is essential to understand its relationship with other parameters.	\$297
API	enables programmers and Power Users to capture information from the Argus System to build and create their own tools for analysis and decision making.	\$2,369

* Add-ons only available with Titan 900 or newer. If software is being upgraded from Build 800 or older, the Visual Controls add-on is also available for \$1,486



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Climate Control Hardware

Climate control hardware includes sensors, controllers, inputs and outputs. It ranges from \$7,000 to \$14,000 per climate zone and it depends on complexity of integration and number of control points. It is important to note that Argus can integrate with equipment that has its own software (sensors, LED lights, etc.). Since hardware needs can vary from customer to customer, please keep in mind that these numbers are estimates and will become more accurate upon completion of the Argus control points spreadsheet or workbook.

Basic Hardware	Intermediate Hardware	Advanced Hardware
To control: <ul style="list-style-type: none">• Unit Heaters• Exhaust Fans• HAF fans• Ridge and Side Vents• Irrigation control	To control: <ul style="list-style-type: none">• Unit Heaters• Exhaust Fans• HAF fans• Ridge and Side Vents• Irrigation control• Lights• Shading• CO2 injection• Hot water heat loops	To control: <ul style="list-style-type: none">• Unit Heaters• Exhaust Fans• HAF fans• Ridge and Side Vents• Irrigation control• Lights• Shading• CO2 injection• Hot water heat loops• Boiler control• DLI/PAR Sensors• HVAC + FCU
Starting from \$7,000*	Starting from \$10,500*	Approximately \$14,000*

* Notes:

- Estimate per climate zone.
- These estimates consider electrical interfacing.
- Electrical interfacing for lighting can increase these estimations.

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Multi-Feed Nutrient Injection System

The Multi-Feed RM nutrient dosing system is designed as a turn-key injection system for applications where concentrated fertilizer solutions must be injected and mixed simultaneously. Dual manifolds and sequential micro-injection ensure separation of incompatible fertilizer concentrates while achieving precision accuracy. It can pull from 8 different stock tanks plus acid and base (*premixed solutions only; single element must be directly quoted by Argus*) and make up an infinite number of recipes.

\$43,000* per unit

** This includes the ability to pull from 8 different stock tanks plus acid + base injections. Price could be lower depending on the amount of stock mixes to draw from.*

RM Fertigation base system: If a customer only needs a Multi-Feed Nutrient Injection System for their project, then just add the base system package to control it.



Single Element Dosing: As an all-in-one injection solution, it can be used for in-line injection and for filling and maintaining dilute storage tanks, with very custom mixed formulas. (*ppm*)

Contact Argus for pricing

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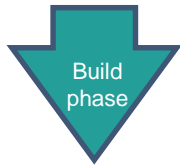
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Timeline and Payment Terms

To begin the Argus manufacturing process a 20% deposit on the agreed upon formal quote is required and the final 80% is due before shipping. It takes about 12 weeks from receipt of your deposit to delivery to your site. The Argus system will arrive at your facility, ready to be installed and commissioned.



- 4 weeks.
- To avoid a longer process please have all equipment and design decisions finalized and respond to design engineers as quickly as possible.
- Drawings must be approved by you before we build the units.



- 4 weeks to build and configure programming.



- 1 week to ship.
- Final 80% must be paid 2 weeks prior to shipping.
- Product ships from Surrey, BC. Tax ID (*US destinations*) and shipping address is required prior to shipping.



- 1-2 weeks to install (depends on size of system and complexity).
- This depends on installation crew availability and capabilities. The installation is not conducted by Argus Controls.
- Schedule commissioning with the Argus Application Service Team



- Start-up commissioning is done through remote access of the system.
- This often includes training sessions. Duration is determined by customer needs, until users can begin growing confidently.

Important note: Lead times are subject to change based on availability of complete information, design changes, and workflow volume.

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Estimation examples

Scenario 1

Customer is a vegetable grower. The head grower has mentioned that there will be multiple people using the Argus system. This system will include HAF fans, unit heaters, irrigation control, nutrient injection, light controls and shade cloth, roof vent, hot water bottom heat. There are 8 climate zones in need of these capabilities.

Solution offered

Enterprise package (\$28,000) + 8 zones of intermediate hardware (\$10,500 X 8 zones) + Multi-Feed Nutrient Injection System (\$43,000) = \$155,000 ball park estimate for total system.

Scenario 2

Customer is a bedding plant grower who wants to be able to access his grow facility in a different state. He is the only person that will have remote access to Argus. His operation includes unit heaters, side vents, HAF Fans and irrigation controls. There are 6 climate zones.

Solution offered

Basic Package (\$23,000) + 6 zones of Basic Hardware (6 X \$7,000) = \$65,000 ball park estimate for total system.

Scenario 3

Client is an indoor cannabis grower and is very concerned with the cost of his lighting. He is looking for a system that will control the grow lights on 12 to 14 hours cycles, with the possibility of dimming and having spectrum control. He wants everything to be integrated with Argus, including, but not limited to: Circ. fans, dehumidifiers, boiler system, irrigation control, nutrient injection, LED lights, HVAC, etc. There will be 9 zones in total. 2 zones will have simpler control requirements. This customer has multiple users that will want to access the Argus system at any given time.

Solution offered

Enterprise Package (\$28,000) + 2 zones of intermediate hardware (\$10,500 X 2 zones) + 7 zones of advanced hardware (14,000 X 7 zones) + Multi-Feed Nutrient Injection System (\$43,000) = \$195,000 ball park estimate for total system.