



Let's   
think food  
forward 

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Let's talk.

🐦 @autogrow

📘 @autogrow

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www.autogrow.com

At Autogrow® we are experts in automation with a wealth of experience in CEA (Controlled Environment Agriculture). That includes greenhouses, hoop houses, tunnels, indoor rooms and vertical farms.

Our solutions are flexible and scalable, and are used by small, medium and large growers operating greenhouses, grow rooms and protected cropping operations in more than 40 countries.

We leverage the power of technology, data science and plant biology to provide growers affordable, accessible and easy-to-use innovation – 24/7, anywhere in the world through our cloud based platforms.

Our message to growers is to 'Think Food Forward'. Autogrow® is a company firmly focused on delivering innovative solutions that enable sustainable crop production. Growers looking to partner with a company that's investing in the future should definitely have a conversation with us.

Lets Talk.



#### TAILORED TO THE TASK

We customise the set up of your controllers so you can continue to develop and enhance your unique offering, while also affording you the ability to experiment and trial new techniques when desired.



#### POWER & PRECISION

MultiGrow is one powerful controller that is capable of handling each zone individually. It's not a case of running the same automation across all crops. The controller provides specific solutions for specific needs.



#### WORLDWIDE, 24-7 ACCESS

Whatever your preferred method of control, you can remotely access the software from anywhere in the world on tablet, PC, or mobile meaning you can keep up-to-date with your crops, even when you're on holiday.

# Multi Solution.

### Do you want a system that can scale as your business grows?

If you have multiple crop types or grow in many different areas, you need a solution that is flexible and scalable. Our technology allows you to control and manage all sites from a single platform, our multi zone controller will be fully customized to your needs and you can add or change modules over time as your business evolves.

The cloud based platforms that support the MultiGrow solution enable you to visualize all of your growing data on one comprehensive dashboard AG-Insights, and control your growing operation remotely with my.autogrow - with a single annual subscription.

The MultiGrow solution enables you to make data-driven decisions that optimize your business, mitigate risk and ultimately increase profits.



### AG-Insights

AG-Insights is a cloud-based platform that gives MultiGrow users access to next generation data visualization. Through AG-Insights all your data is presented in a clean and easy dashboard giving you more opportunities for insight and improved production.

### My.autogrow

My.Autogrow is a remote access solution which allows you to be off-site and still see what your settings are or make adjustments. You can set SMS and email alerts to stay up to date.



### MultiGrow

MultiGrow is your all-in-one, multiple grow area controller. It can run up to 8 different growing zones, managing the environment as well as reservoirs and irrigation schedules.



#### MORE DATA, MORE INSIGHT

While the sensors are constantly monitoring your crops, they're also data logging and making adjustments, offering insights and immediate solutions.



#### BUILT TO ORDER

No two controllers are the same as we tailor your software to suit your needs and the needs of your crops.



#### MULTI-TASKING MADE EASY

MultiGrow can run up to 8 different growing zones, taking care of everything from environment to irrigation schedules.

# AG-Insights.

AG-Insights is our data visualization solution for the MultiGrow controller. Through the dashboards you can see your crop environment at a glance.

Depending on what you're measuring, this can include water usage, run-off, nutrients, weather, humidity or any other variables. You can drill down into the detail or zoom out to get an overview.

With one subscription you can EXPLORE your data and CONTROL your environment! AG-Insights is available in three subscription plans and includes My.Autogrow access.

My.Autogrow is a remote access solution which allows you to be off-site and view your settings or make adjustments. You can also set SMS and email alerts.

Together these solutions form a powerful risk mitigation and business growth platform. Through exploring your data, and having remote access to your controller, you can make data-driven decisions that optimize your business and ultimately increase profits.

## Why You Should Use AG-Insights?

- The dashboards are easy to use
- Your data can show trends over time (mins, hours, days, months, years)
- You can access your data anywhere you have an internet connection
- You choose who can view your data
- Your data is safe within a secure cloud infrastructure
- Through My.Autogrow you can remotely access your controller anywhere at any time
- You can set alarms and notifications so you're informed if something goes wrong

AG-Insights is available in 2 plans, choose the one that best fits your needs

- Essential
- Professional



AG-Insights Plan Comparison	Essential	Professional
Air Temperature	✓	✓
CO <sub>2</sub>	✓	✓
Electrical Conductivity (EC)	✓	✓
Humidity	✓	✓
Hydronic Temperature	✓	✓
Inside Temperature	✓	✓
Instantaneous Solar	✓	✓
pH	✓	✓
Plate Temperature	✓	✓
Rain	✓	✓
Retractable Roof System Mode (RRS Mode)	✓	✓
Soil Temperature	✓	✓
Solar Integration	✓	✓
Targets	✓	✓
Water Temperature	✓	✓
Water Usage	✓	✓
Wind	✓	✓
Day Light Integral (DLI)	✓	✓
Dose Count	✓	✓
Flow Rate	✓	✓
Group Volumes	✓	✓
Nutrient	✓	✓
Runoff Monitoring	✓	✓
Station Volumes	✓	✓
Vapour Pressure Deficit (VPD) / Humidity Deficit (HD)	✓	✓
Water Source	✓	✓
Chill Hours		✓
Growing Degree Days (GDD)		✓
Group Detail Outputs:		✓
Circulation Pump		✓
Main Pump		✓
Stir Pump		✓
Richardson Chill Units (RCU)		✓
Run Times		✓

COMPARISON FOR ROOTZONE MINDER (MINUTES/HOURLY/DAILY/WEEKLY/MONTHLY BREAKDOWNS)

# MultiGrow.

When you have multiple growing areas, you need a controller capable of handling each zone individually, but with one user interface.

The MultiGrow is fully customizable and configured to your needs, so you only pay for what you need. The products are time-tested and proven in greenhouses, protected cropping, warehouses, and grow rooms. The experts who will help you with the installation and programming of your MultiGrow have over three decades of greenhouse automation knowledge between them and our ongoing technical support and customer service team are world class.

## Why MultiGrow?

- It's fully customizable
- It's perfect for multiple crop types
- It's flexible – you can put sensors and output modules where you need them



### 8 zones - 1 controller

Our MultiGrow can run up to 8 different growing zones, managing the environment as well as your reservoirs and irrigation schedules. While the sensors are constantly monitoring every aspect of your growth, the unit is data logging and making adjustments to create your perfect environment.



### Remote management

All locations controlled by a MultiGrow can be accessed through our secure portal at my.autogrow.com. This portal gives you complete visibility 24 hours a day, and enables you to manage multiple locations from the comfort of your office, using a single login.



### Disaster proof

All settings and data are backed up daily to our secure servers, allowing rapid reinstatement in the event of a failure, reducing the risk of data loss, and preserving all your configuration settings.



### Support tools

Autogrow's tech support team can log into the MultiGrow to deploy software updates, provide training, and diagnose any faults in the field, eliminating the need for costly site visits.



### Safe and secure remote access

The MultiGrow is accessible via your web browser, so you can control your grow remotely from your phone, tablet or computer. A dual level login gives you peace of mind that your information is secure. With the ability to set 4 different access levels, you can ensure employees only have access to what they need.



### Simple user interface

The MultiGrow uses terminology you will understand with easy-to-navigate menus, simple data logging screens and smooth remote access.



### Alerts and alarms

The MultiGrow can send notifications to multiple users via email and text message when a warning or alarm is triggered. Each user can set their own parameters, ensuring they are only notified of situations important to them.



### Easily installed

The MultiGrow is easily installed, using an RS485 network from the MultiGrow computer, to EnviroSensors, output modules and remote sensors. Each component has a unique address, so you can determine the simplest install and set-up for your specific situation.



### Sensors

Utilizing the constant input from the sensors, the MultiGrow makes the most efficient decisions on how to manage your environment based on your set-points. All peripherals work with the MultiGrow, from a simple fan plugged into a relay box to hundreds of lights hardwired to the system.



### Scalable and future-proof

Add or change modules over time and easily swap out parts for upgrade or maintenance.



### Retrofit

Place output modules near what you're controlling and leverage existing wiring infrastructure.



### Value

Stop paying for bundled features in your hardware that you never use.



### Adaptable

Connect a combination of sensors to capture the information you want.



# MultiGrow.

## Monitoring

### The EnviroSensor monitors:

- Temperature
- Humidity
- Light levels
- CO<sub>2</sub> (PRO version)

### The remote sensor monitors:

- Nutrient concentration
- pH
- Moisture levels
- Temperature

## Control

- Passive cooling (vent control)
- Cooling pad/wet wall
- Fertigation (direct injection)
- Hydronic heating
- Multiple light banks
- CO<sub>2</sub>
- Air conditioner
- Heater
- Dehumidifier
- Humidifier
- Extraction fans
- Foggers
- Batch dosing systems (up to 50 recipes)
- Continuous dose systems (up to 8 different reservoirs)
- Dosing of up to 10 different nutrients/additives plus pH adjuster, per reservoir or recipe
- Irrigation - using accumulated solar radiation, via schedule or rootzone moisture content
- Heater or chiller to maintain ideal reservoir temperature

## Technical information

### Output modules

Our modules have 10 relays which can be used to directly drive devices such as dosing pumps and switch on larger equipment. Can be set up for automation but also has full hardware override - meaning that you can always take control.

### Inputs

- RS485 to communicate with controller
- Power input 12/24V (AC or DC)

### Outputs

- 10A relays
- Output voltage matches input voltage

### Limitations

- The MultiGrow can connect to up to 32 of any particular module simultaneously. 32 output modules would provide up to 320 individual outputs, and you could also connect 32 nutrient probes and 32 environment sensors at the same time. The mix of these modules depends on how you grow, what you grow, and what other equipment you have. Your Autogrow dealer will help guide you through these decisions
- One MultiGrow can control up to 8 compartments
- The modules are all connected via an RS485 daisy chain. The maximum total length of this chain is 1.6km. Expansion options are available beyond that

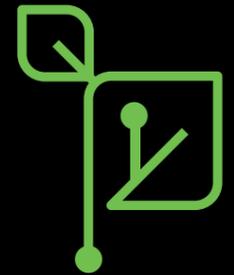
Let's talk.

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**“A big goal for us as a family is about building a multi-generational, diversified, enduring business.**

**We want to have multiple cropping types, we want to double our production of raspberries and berry crops and see increased productivity in kiwifruit.**

**We want to employ staff for long periods of time rather than seasonally and we want to grow a business and a family.”**

**Patrick Malley,  
Maungatapere Berries,  
New Zealand**





### PRECISION & ADAPTABILITY

Seasonality is always a factor, even with indoor farming, but our tools will automatically adapt and adjust distribution to your crops as needed.

The ongoing data recording also informs you with the knowledge to be able to plan and strategize effectively to future yields.



### WORLDWIDE, 24-7 ACCESS

Whatever your preferred method of control, you can remotely access the software from anywhere in the world on tablet, PC, or mobile meaning you can keep up-to-date with your crops, even when you're on holiday.



### TAKE CONTROL

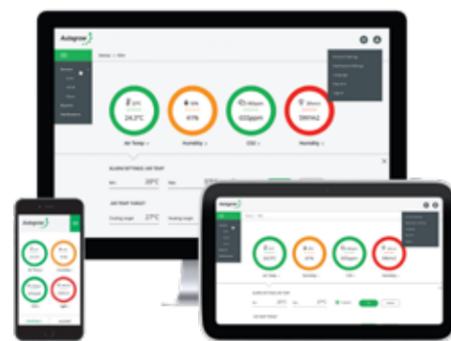
Depending on the size, type and structure of your grow room you can control: nutrient, pH, EC, irrigation, and run-off.

Your system will alert you when there's a problem and will allow you to access and manage everything remotely.

# Intelli Solution.

## Making Smart Controllers Smarter

IntelliGrow is a cloud-based solution which enables growers to access, set, monitor and manage their IntelliDose and IntelliClimate control systems – anywhere, anytime. Our IntelliDose and IntelliClimate controllers are proven performers, and continue to set the industry standard for small commercial auto-dosing and accurate, efficient commercial grade climate control.



## IntelliGrow

With IntelliGrow, your Intelli devices are accessible via your web browser so you can control your growing operation remotely from your phone, tablet, or computer. IntelliGrow gives you complete visibility 24 hours a day, and enables you to manage multiple locations from the comfort of your office, using a single login. Automatically manage your nutrient and pH levels, set remote alarms and data log your progress with this one simple machine.



## IntelliDose

The IntelliDose sets the industry standard for a small commercial auto-dosing. Automatically manage your nutrient and pH levels, set remote alarms and data log your progress.



## IntelliClimate

Automatically manage all aspects of your climate – from temperature to CO<sub>2</sub>, lighting to humidity, all in one simple controller.



## IntelliLink

The IntelliLink provides internet connectivity to Intelli devices, allowing remote accessibility to IntelliGrow - no need for a dedicated on-site computer.



### INCREASED EFFICIENCY

Effective irrigation is a direct contributor to a successful yield, so it's vitally important that you don't leave it up to chance.

The good news is, perfection doesn't require increased manpower to pull off when you have the right automation established.



### WATER RIGHT EVERY TIME

If you are manually watering it can be easy to overwater or underwater your plants. To be accurate you need to stick to a strict schedule to make sure there are no inconsistencies.

Automation is accurate based on the schedule you set which can be adjusted based on type of crop, quality, yield and local weather station parameters.

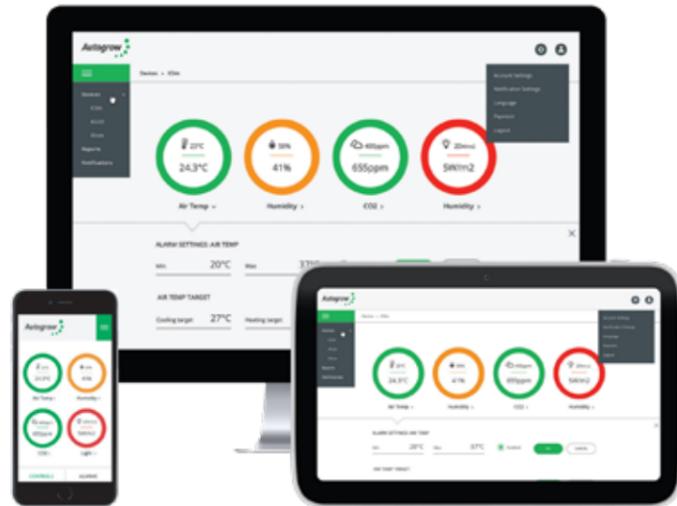


### MORE DATA, MORE INSIGHT

While the sensors are constantly monitoring your crops, they're also data logging and making adjustments, offering insights and immediate solutions.

# IntelliGrow.

IntelliGrow is a cloud-based solution allowing growers to access, set, monitor and manage their IntelliDose or IntelliClimate control systems - anywhere, anytime.



### Remote management

With IntelliGrow, your Intelli devices are accessible via your web browser so you can control your growing operation remotely from your phone, tablet or computer. IntelliGrow gives you complete visibility 24 hours a day, and enables you to manage multiple locations from the comfort of your office, using a single login.



### Disaster proof

All settings and data are backed up to our secure servers reducing the risk of data loss and preserving all your configuration settings.



### Alerts via email, SMS and mobile push notification

IntelliGrow notifications can be sent via email and/or text message when an alarm is triggered. Each device can have their own parameters, ensuring you are only notified of situations important to the location.



### User-friendly dashboard

IntelliGrow's dashboard shows an instant view of key metrics, providing insight into your growing operation.



### Set your schedule online

IntelliGrow allows you to schedule your entire grow cycle in one go, online, from anywhere. Going out of town and need to adjust your climate settings? Schedule all your changes at once and IntelliGrow will take care of it for you.



### Better retrospective analysis

IntelliGrow will record your nutrient levels, pH levels, temperatures, humidity, CO2 and more. Use this historical information to improve your production.



### Use the tools you love

Access IntelliGrow using your PC, Mac, tablet or mobile devices.

Visit us at [www.autogrow.com/intelligrow](http://www.autogrow.com/intelligrow) for more information.

IntelliGrow available at your mobile app store.



## IntelliGrow

### Better growing control, more freedom

Manage your growing operation anywhere, anytime by logging in on your Mac, PC, tablet or phone.

### Base today's decisions on real-time data

Leverage 5 year historical grow data to make smarter, data-driven decisions.

### Best in class infrastructure

Protect your growing data with enterprise level data security, at small business prices.

### Keep your site running smoothly

Invite Autogrow's experts to log in remotely when you need them.

### We'll handle the tech

Seamless product updates mean you get more tools, without any disruption.

### Scale as your business grows

Whether you have a single compartment or many, IntelliGrow will work for you.



**Grow  
any—  
where.**

Control your growing environment anywhere, anytime with IntelliGrow.



# IntelliDose.

Automatically manage your nutrient and pH levels, set remote alarms and data log your progress with one simple controller.

The IntelliDose sets the industry standard for a small commercial auto-dosing.

Dose up to a 9-part blend (nutrients, additives, pH adjuster) while maintaining your preset EC and pH settings.

## Why IntelliDose?

- You can access your control system remotely through IntelliGrow
- You can dose up to 8 nutrient parts
- You can run up to 4 irrigation stations



"We use the IntelliDose because it's so simple and easy to use. I can have four different irrigation schedules and that's a big selling point for me as different crops require different protocols."

*Sannyasin Yoginathaswami, Hawaii*



## In the box

IntelliDose	24V DC 2.5A power supply with universal plug
EC probe	3m USB cable
pH electrode	Mounting hardware
Sample pot with all fittings	Instruction manual
Calibration solutions (to get you started)	



### Super easy to use

The large, interactive screen allows you to easily move between calibrating, set-points, alarms and configuration. If you can program a number into a cell phone, you can program your IntelliDose.



### Run up to four irrigation stations

The IntelliDose can run up to 4 irrigation stations, allowing different areas of your grow space to be watered on different schedules. Use one reservoir or have a pump feed each station at different times. You can also set your system to only irrigate during the daytime.



### Works with any nutrient line

Any nutrient line can be used with the IntelliDose - liquid or powder. Simply determine your proper dilution ratios (don't worry, we can help) and the IntelliDose will keep the reservoir at your perfect recipe 24/7.



### Peristaltic pumps

Peristaltic pumps allow you to have all of your nutrient stock tanks on the ground, allowing for much larger quantities of pre-mixed solutions. This lowers the chance of leaks and spills, and will cut down on your labor. Autogrow's peristaltic pumps are heavy duty, pumping 350ml/minute and can run any size reservoir (even over 1,000 gallons!) with ease.

## Additional options

- Heavy duty triple peristaltic pump
- Single peristaltic pump
- Twin relay box

## Features and Specs

### Features:

- Controls all growing methods - NFT, DFT/DWC, soil, media, drip, and aeroponics
- Measure nutrients in EC/CF/TDS (500/640/700 scale)
- Lower or raise pH
- Able to set different EC for day and night
- Able to lower EC by adding water
- Receive or SMS alerts
- Irrigation pump outputs
- Fail-safe dosing shut offs

### Specs:

- 9 outputs 24VDC (or same voltage as supplied by plug pack)
- Nutrient measurement units EC, CF or TDS (500/640/700)
- Measured range 0.00 to 9.99EC, 0.1 to 99.99CF, 0 to 7000PPM
- Nutrient resolution to .01mS/cm, 0.1CF
- Nutrient measurement accuracy +/-0.1EC, 1.0CF or 10PPM (temperature compensated)
- Nutrient dosing range 0.00 to 5.99EC, 0.1 to 59.9CF, 0 to 4200PPM
- pH resolution and accuracy - 0.1pH
- pH measurement range 2pH to 12pH
- Nutrient and pH dosing times settable from 0 minutes to 254 minutes
- Dosing interval settable from 0 minutes (continuous dosing) to 254 minutes
- Sequential dosing to prevent power surges
- Solution temperature accuracy 1°C/2°F
- Temperature range 0-50°C/32-125°F
- Operating temperature range 0-50°C/32-125°F (not in direct sunlight)
- Power source - 120V/240V into 24VDC plug pack (supplied)
- Dosing shut off
  - if nutrient is below 0.1EC, 1.0CF, 10PPM
  - if pH is below 4.5 or above 8.0
  - if dosing effect is counterintuitive (by dosing pH lower, the measured pH goes up)

Subscribe to IntelliGrow

Visit  
[www.autogrow.com/intelligrow](http://www.autogrow.com/intelligrow)  
 for more information

# IntelliClimate.

Automatically manage all aspects of your climate - from temperature to lighting, CO<sub>2</sub> to humidity, all in one simple controller.

Designed specifically for the indoor grower, the IntelliClimate controls all aspects of your growing environment.

No comparable controller on the market gives you this much accuracy, efficiency and commercial grade control!

## Why IntelliClimate?

- You can access your control system remotely through IntelliGrow
- You can schedule based on growth cycles
- You can manage all aspects of your climate



## In the box

IntelliClimate

24V DC 2.5A power supply with universal plug

EnviroSensor (temperature, humidity, light, CO<sub>2</sub>)

3m USB cable

Magnetic door switch

Mounting hardware

Instruction manual



### Complete control

Working as a complete climate controller, the IntelliClimate will utilize every peripheral available to maintain your exact climate needs. The IntelliClimate is constantly evaluating and making decisions based on current attributes of the growing area.



### Super easy to use

Easily move between set-points, alarms and configuration. Our step-by-step instruction manual makes set-up a breeze.

## Additional options

### EnviroSensor

It is recommended that a second sensor is used in rooms larger than 20' x 20' to get a more accurate reading. The IntelliClimate will take an average of both readings and make climate control decisions based on the average.

### Magnetic door switch

The magnetic door switch is used with the IntelliClimate as an intruder alarm. When the switch is triggered, an alarm can alert you that someone has entered the room or protect against dangerous CO<sub>2</sub> levels.

### Outside temperature sensor

The outside temperature sensor can be used with the IntelliClimate to monitor outside temperatures. This is important if you are using outside air to cool your room down. In warm climates it is sometimes too warm to bring outside air in, so the unit will need to switch over to air conditioning.

### Light overtemp switch

The light overtemp switch is useful where air-cooled lights are used. If the light-cooling fans fail and the room starts to overheat, the sensor contacts will open, the light is turned off and the alarm triggered.

## Features and Specs

### Features:

- Built in fail-safes to ensure the room will continue to function if there is an equipment failure
- Alarms on all the settings, as well as an intruder alarm
- Pre-installed growth stage schedules, if desired
- Daily CO<sub>2</sub> and Light Integration stats

### Specs:

- 9 outputs 24VDC
- RH resolution ± 2% and accuracy
- Temperature resolution and accuracy 0.5°C/32.9°F
- Temperature sensor range 0-50°C/32-125°F
- Operating temperature range 0-50°C/32-125°F (not in direct sunlight)
- CO<sub>2</sub> resolution and accuracy 50ppm
- Power source - 120V/240V into 24VDC plug pack (supplied)
- Outputs will have the same voltage as the supplied voltage from the power pack
- Supplied with 3m USB cable

Subscribe to  
IntelliGrow

Visit  
[www.autogrow.com/  
intelligrow](http://www.autogrow.com/intelligrow)  
for more information

# IntelliLink.

The IntelliLink provides internet connectivity to Intelli devices, allowing remote accessibility to IntelliGrow - no need for a dedicated on-site computer.

## In the box

- IntelliLink

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- 3m Ethernet cable

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- 5V DC 2.5A power supply with universal plug

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- 3m USB cable

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## Connectivity:

- Ethernet cable

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- WiFi

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Product Comparison Chart		MultiGrow	IntelliDose	IntelliClimate	pH Mini	EC Mini
<b>Management software</b>	Web-based software	✓ my.autogrow	✓ IntelliGrow	✓ IntelliGrow	-	-
	Windows, macOS, Linux	✓	✓	✓	-	-
	Mobile devices	✓	✓	✓	-	-
	Internet-connected devices	✓	✓	✓	-	-
	Remote administration	✓	✓	✓	-	-
	Automatic backup	✓	✓	✓	-	-
	Manual settings	✓	✓	✓	-	-
	History/Data logging	✓	✓	✓	-	-
	SMS & email alerts	✓	✓	✓	-	-
	Multi-monitor set up Monitor different aspects of grow room on each screen	✓	✓	✓	-	-
Alarms	✓	✓	✓	✓	✓	
<b>Climate</b>	Control climate compartments	✓ 8 compartments	-	✓ 1	-	-
	Passive cooling	✓	-	-	-	-
	Ventilation, misting	✓ 8 compartments	-	-	-	-
	Active cooling	✓	-	✓	-	-
	Wet wall, air conditioning	✓ 8 compartments	-	✓	-	-
	CO <sub>2</sub> injection	✓ 8 compartments	-	✓	-	-
	Heating control	✓	-	✓	-	-
	Hydronic, electric	✓ 8 compartments	-	✓	-	-
	Humidity control	✓	-	✓	-	-
	Humidifier, fogging, dehumidifier	✓ 8 compartments	-	✓	-	-
Retractable roof	✓	-	-	-	-	
Cravo retractable roof production system (RRPS) <sup>™</sup>	✓ 8 compartments	-	-	-	-	
CEA controlled environment	✓	-	✓	-	-	
Full CEA	✓ 8 compartments	-	✓	-	-	
<b>Irrigation and dosing</b>	Dosing automation	✓ up to 10-part	✓ up to 9-part	-	-	-
	pH automation	✓	✓	-	✓	-
	EC automation	✓ up to 10-part	✓ up to 8-part	-	-	✓
	Day & night automation	✓	✓	-	-	-
	Continuous	✓	✓	-	✓	✓
	Aeroponics, EC/pH monitoring and control, nutrient film technique (NFT), deep flow technique (DFT), flood and drain	✓ 8 compartments	✓ 1 compartment	-	✓	✓
	Irrigation zones	✓	✓	-	-	-
	Control separate irrigation stations	✓ 300 zones	✓ 4 zones	-	-	-
	Inline injection	✓	-	-	-	-
	Larger systems, EC & pH correction on-the-fly, 1000 l/m	✓ 4	-	-	-	-
Batched	✓	-	-	-	-	
Small to medium systems, multiple crops, run to waste, recycling	✓ 4	-	-	-	-	
Day tank	✓	✓	-	-	-	
Single crop, recipe selection	✓ 8	✓	-	-	-	
Water only	✓ 8	-	-	-	-	
<b>Monitoring</b>	Environment	✓	-	-	-	-
	Temperature & humidity	✓	-	-	-	-
	Rootzone	✓	-	-	-	-
Runoff & irrigation	✓	-	-	-	-	
Weather	✓	-	-	-	-	
Air temperature, relative humidity, barometric pressure, wind speed/direction	✓ 2 weather stations	-	-	-	-	

# pH Mini.

Simple, robust, reliable.

A single function controller that lets you control your pH. The pH Mini may be used as a mains-powered monitor or, by adding a peristaltic pump, it becomes a fully functional dosing system, managing fluctuations in your pH. The controller will add either acid or alkali (to lower or raise the pH).

pH fluctuations in your reservoir are not only time consuming to correct, but can have negative effects on your crop performance. This simple pH Mini will monitor your pH levels and add pH adjuster to maintain your desired set-points. Adding a peristaltic pump will allow you to keep your pH adjuster in larger containers on the floor, avoiding issues associated with gravity-fed valves.

## Highlights

pH control by the experts! Autogrow has been managing pH dosing in reservoirs large and small for over 20 years. Growers everywhere have stopped the daily battle with pH levels, giving them more time to spend on their plants.

- Affordable, dependable pH maintenance
- Easy to navigate menu
- Simple calibration with 4 & 7 buffer solutions
- 350ml/minute peristaltic pump... handles reservoirs up to 1,000 gallons

Setting up the pH Mini is easy! Simply plug it in, calibrate your probe and set your dose times and intervals. The pH Mini can dose pH either up or down, depending on your system's needs. These units are very accurate and only need to be calibrated every two weeks.

## Specs

- Timed dosing
- Resolution 0.1 pH
- Range from 2 to 10 pH
- Replaceable BNC standard pH electrode
- Two year warranty (6 months on pH electrode)
- Built-in alarm (can be turned off)
- Displays dose count
- Easy to calibrate using pH 7 & 4 buffer solutions



## In the box

pH Mini
24V DC 1.2A power supply with universal plug
Electrode
Mounting hardware
Instruction manual

# EC Mini.

A single function controller that lets you control your EC.

The EC Mini may be used as a mains powered monitor or, by adding two pumps, it becomes a fully functional dosing system, managing fluctuations in your EC.

EC fluctuations in your reservoir are not only time consuming to correct, but can have negative effects on your crop performance. This simple EC Mini will monitor your EC levels and add EC adjuster to maintain your desired set-points. Adding peristaltic pumps will allow you to keep your EC adjuster in larger containers on the floor, avoiding issues associated with gravity-fed valves.

## Highlights

The EC Mini is from a family of monitors and dosers that have been proven over many years. This latest monitor/controller has built upon this pedigree of simplicity and innovative features.

Fail-safe dosing may be inhibited if any of the following is detected:

- EC sensor module failure
- Dose count per hour exceeded (DC/h)

Checking dose count is useful if a leak should develop or the pump fails and should prevent continuous dosing alarms. The alarms can be enabled to operate on the controller when the EC or DC/h deviates outside the user set-point.

The EC Mini is affordable enough to be used as a mains powered monitor, continuously displaying the measured electrical conductivity. By adding a dosing pump it becomes a low cost dosing system.

## Specs

- Reading can be changed to EC or CF
- Timed dosing for easy set-up
- Range from 0 to 9.9mS (0 to 99CF)
- Resolution 0.01mS/cm (0.1CF)
- Two year warranty
- Graphite electrodes for minimal contamination
- Easy to recalibrate by using 2.77EC standard solution
- Displays dose count
- If dose count per hour exceeds user limit alarm sounds and dosing stops
- Built-in alarm (can be turned off)



## In the box

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# Our global footprint.



## NORTH AMERICA

Canada  
USA

## CENTRAL & SOUTH AMERICA

Argentina  
Ascension Island  
Barbados  
Brazil  
Mexico  
Virgin Islands

## MIDDLE EAST & AFRICA

Egypt  
Israel  
Kuwait  
Nigeria  
Oman  
Qatar  
Reunion Island  
South Africa  
United Arab Emirates

## EUROPE

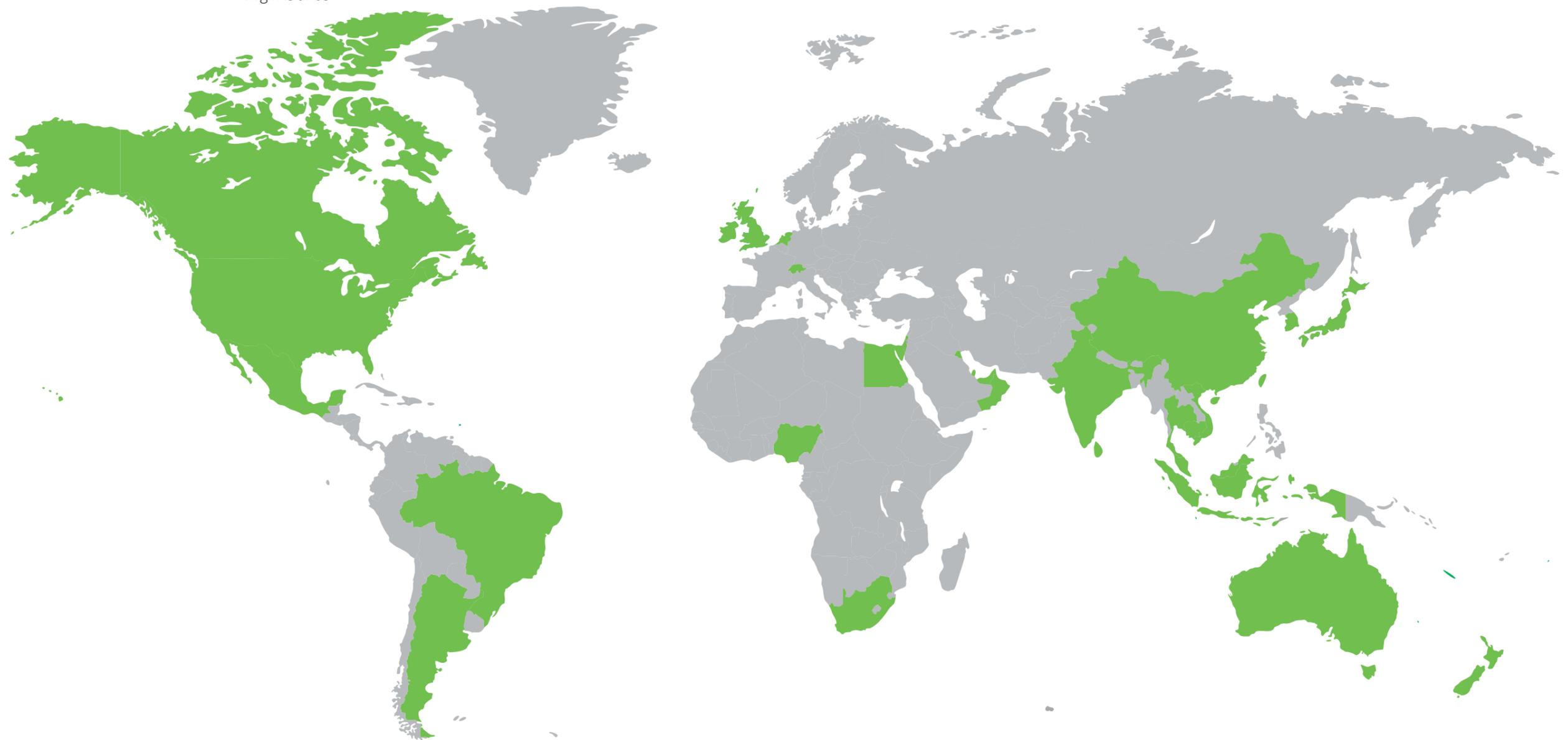
Ireland  
Netherlands  
Switzerland  
United Kingdom

## ASIA

Cambodia  
China  
India  
Indonesia  
Japan  
Korea  
Malaysia  
Singapore  
Sri Lanka  
Taiwan  
Thailand  
Vietnam

## AUSTRALIA & NEW ZEALAND

Australia  
Christmas Island  
Lorde Howe Island  
New Caledonia  
New Zealand  
Niue  
Tahiti



Notes.

# Let's talk.

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