

Heron

Outputs

- All outputs are general purpose.
- Outputs are configured at installation to perform the required control function, e.g. heater output, vent output.
- Vents, screens and motorised valves require two outputs, open and close.
- One alarm output is available for each zone. The alarm output is activated on high temperature, low temperature, sensor fault, zone fault.
- All outputs are 24V AC (to operate 24V AC relays).
- The total output current is 1.0 Amp per module.
- All outputs are protected with electronic overload cut-out.
- Output current is measured for diagnostic display purposes.
- All outputs are protected against electrical surges exceeding ANSI C62.2 surge suppression standards.
- Designed to operate in an industrial environment. High electrical noise immunity, can withstand a 2.5KV spike.

Environmental Controllers



Hardware Features

- Inputs—Base Module
 - Digital input for inside temperature and/or humidity.
 - Digital input for pipe temperature or boiler alarm.
 - Digital input for Heron Weather Station.
 - One data connector to connect PC and GSM mobile phone module.
- Inputs—Remote Zone Module.
 - Digital input for inside temperature and/or humidity.
 - Digital input for pipe temperature or boiler alarm.

Sensors

- All sensors connect via 'Heron digital link'.
- The Digital link does not require special cable.
- Sensors can be connected up to 200m from the base module.
- Inside temperature sensor range 0 - 50°C (+/- 0.2°C)
- Outside temperature sensor range -10 - 50°C (+/- 0.2°C)
- Humidity sensor range 0 - 95% (+/- 3%).
- Wind speed 0 - 70mph (+/- 5mph).
- Light sensor range 0 - 2000W/m² (+/- 8W/m²).

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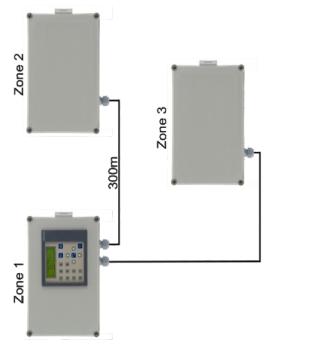
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Controller Sizes

Heron environmental controllers are available as either single or multi-zone controllers.

Single zone controllers are available in two sizes with either 8 outputs or 16 outputs.

Multi-zone controllers consist of a Base Module and Additional Zone Modules. The Base Module and the Zone modules control individual Greenhouse compartments or zones. The Base module and Zone modules are available with either 8 or 16 outputs. A maximum of 8 Zone modules can be added to a Base module. The Zone modules can be remote from the Base Module.



Vents

Up to 6 vents can be controlled in one zone; two ridge vents, two side vents and two end vents.

Vents can be controlled by any combination of the following:-

- Inside air temperature
- Outside air temperature
- Wind speed and direction
- Raining
- Humidity
- Inside humidity



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Screens

- Heron environmental controllers operate either separate thermal and shading screens or one combined screen.
- Thermal screens can be controlled by time, light, and inside and outside air temperature.
- Thermal screens have a delayed opening feature to allow gradual air circulation.
- Shading screens can be controlled by time or light.
- Two gap positions can be specified for high inside temperatures.



- Click on a graphical picture of your glasshouse to monitor the environment within your glasshouse.
- Program your environmental controller from your PC.
- Produce graphs of logged data.
- Receive emails should a fault condition arise.



Periods

- Up to four control periods can be specified to allow for different settings throughout the day.
- Time periods can be set using "time of day" or astronomic time.

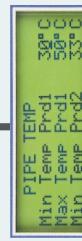


Fans

- Heron environmental controllers can operate two cooling fans and one circulating fan.
- Circulating fans can be controlled by time or humidity.
- Circulating fans can be disabled with high vent position.
- The first cooling fan is started when a high inside air temperature threshold is reached.
- The second cooling fan can be started if a higher inside temperature threshold is reached.



- Click on a graphical picture of your glasshouse to monitor the environment within your glasshouse.
- Program your environmental controller from your PC.
- Produce graphs of logged data.
- Receive emails should a fault condition arise.



- Take advantage of the mobile phone network to monitor your glasshouse.
- Send a text to the controller to request a status report on the inside temperature, pipe temperature and vent positions.
- Receive a text message from your controller should an alarm condition arise.

Hot Water Heating

- Heron environmental controllers operate two heaters; a main and a back up heater.
- Heating can be initiated by a low inside air temperature threshold or by a falling temperature gradient.
- Heating can be disabled with a specified high vent position.
- The Back-up heater can be set to start at a lower temperature threshold.

Full Range of Sensors

Heron environmental controllers can be integrated with our full range of sensors.

- Outside air temperature
- Aspirated inside temperature
- Pipe temperature
- Wind Speed
- Wind Direction
- Raining
- Light
- Humidity



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