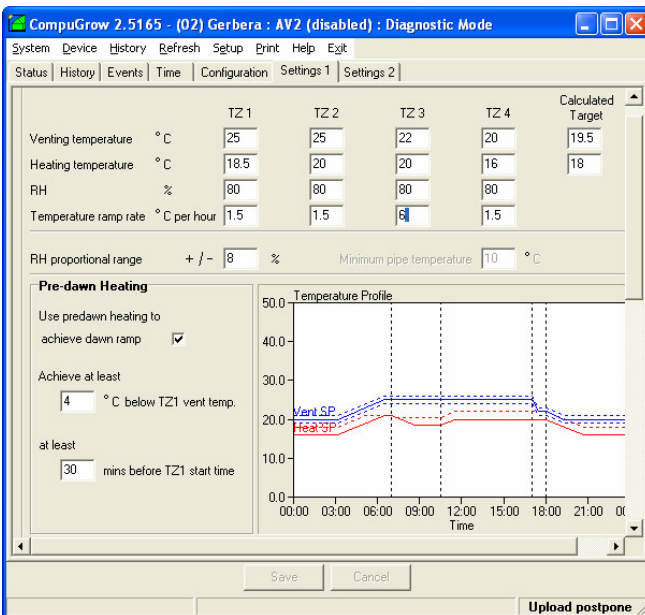


Environment controllers

AutoVent 2

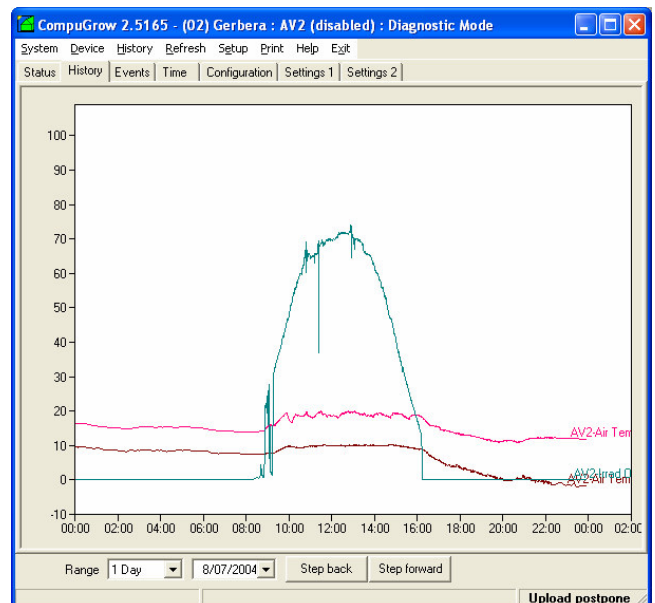
- Suits most styles of roof/side vented houses
- Proportional control of roof and side vents
- Proportional control of heating
- Advanced humidity control
- Shade cloth control
- Fogging control
- Optional Advanced lighting control
- Optional CO2 injection
- PC interface



The AutoVent 2 is an advanced environment controller with four time zones and PC interface. It controls the greenhouse environment taking into account temperature, relative humidity, wind direction, wind velocity, rain and solar energy. It has outputs to control roof vents (of various configurations), side curtains, stir fans or multi-speed fans, shade cloth, fogging, lighting and heating (either modulating or on/off). It can be set to apply heating/purging sequences to try to reduce high humidity. A PC computer interface is available which uses our standard CompuGrow

software to provide full access to settings and readings from a remote PC. This interface also has a data logging function and allows stored data to be viewed graphically or even exported to an Excel spreadsheet.

The AutoVent 2 provides a superior level of control and convenience at an affordable price



Historical data logging

Data is logged to the hard disk in one-month files that are easily identified
The compugrow software allows easy navigation to view any period over the last year or more
Logged data can be viewed graphically or exported to an Excel spread sheet

Events

The compugrow software also allows easy viewing of time and date stamped events. This includes things such as vent movements, fans going on/off, in fact most outputs are reported and in some cases a reason is given for the action eg 10:53 Vent 1 closed reason wind

Alarms

The compugrow software also provides alarms at the PC (via the sound card) and can even be set to phone you in the event of a problem

Functions and specification

4 time zones plus pre-dawn heating
Full manual overrides on all outputs
Smart vent control for two roof vents and/or up to two side vents
Suits gull-wing, venlo, saw tooth or single roof vent styles
Variable vent nudge size based on temperatures (in and out), RH, Wind
Flexible wind and rain vent constraints
Heating – hydronic or ON/OFF
Fogging – variable pulse, one zone built-in, 6 zones with optional expander
Stir fan control
Advanced RH control using increased heating, venting and purge cycling
CO2 injection control built in
Shade cloth/ thermal screen control (shared with one side output)
Advanced lighting control with 52 week schedule available with expansion unit
Alarms on temperature, humidity, light level, CO2
Can use up to 4 aspirated enviro sensors – averages readings – flexible control

Outputs

All inputs and outputs are opto isolated for maximum immunity in electrically noisy environments
Outputs: 24V AC
Powerful 4A power supply
Mains input filtered, fused and surge protected
All field wiring is connected by plug-in connectors making replacement extremely quick and simple.
Connection to PC, aspirated sensors and weather station by industrial RS485 bus
Temperature sensors accurate to 0.2 DegC
Swiss made RH sensors accurate to +/- 2% RH up to 95 and then increasing to 5% at 100%
Light sensor PAR approximation (0 to 2000umol)
Connection to full weather station including wind speed, wind direction, rain sense, rainfall, temperature, humidity, solar irradiance.

