

Glasshouse Temperature Controller EC-8



Control
temperature
economically
and safely

The Hortisystems EC-8 provides an ideal solution for reliable, economical and accurate temperature control of one glasshouse.

The EC-8 temperature controller can operate:

- Warm air heating On/Off
- Two glasshouse vents
- One shade/thermal screen

OR

- One sided glasshouse ventilation
- One glasshouse hot water heat system
- One shade/thermal screen

The following sensors are available for the EC-8 controller:

- Inside temperature sensor
- Outside temperature sensor
- Outside wind speed and direction sensors
- Raining sensor
- Outside light level
- Hot water heating pipe temperature

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System Features

- The EC-8 will control temperature accurately and economically.
- The menu driven display makes it easy to use and by setting options, the EC-8 can be customised to match your application. The EC-8 also includes a comprehensive range of alarm and warning conditions with all events logged.

Heating control for ON/OFF heating with the option of a main and standby heater (A and B heating).

On/Off Heating Control Features Include:

- Up to four temperature periods can be set during the day
- Inside temperature is measured to an accuracy of 0.1deg.C



The EC-8 can also control the glasshouse vents, either with or without heating. Two vents can be controlled. This would normally be the wind side and the lee side vents.

Vent Control Features Include:

- Independent temperature settings for the wind side and lee side vents
- Up to 10 vent opening positions can be programmed
- Total vent open and close times can be individually specified for lee and windside.
- Vents can automatically close on wind speed and/or rain



The EC-8 can be set to control one screen system inside the glasshouse either with or without one sided vent control and one On/Off heating control.

Screen Control Features Include:

- Thermal screen programme featuring settings for start and stop times, outside temperature setpoints relating to close and open functions, and outside light level that needs to be achieved before the screen will open.
- Shade programme featuring settings for outside light level at which the screen will close and outside light level at which the screen will re-open.
- Screen gapping programme featuring settings to open the screen to a set position when the inside temperature setpoint is exceeded.

The EC-8 also has a function to control one hot water heating system inside the glasshouse either with or without one sided vent control and thermal/shade screen control

Hot Water Heating Control Features Include:

- Control of heating mixing valve and circulation pump
- Measurement of heating pipe temperatures
- Up to four temperature periods can be set during the day
- Minimum and maximum pipe temperature settings for each time period

Sensors

Hortisystems supply a range of sensors to measure inside and outside temperature, rain, wind speed and direction, outside light levels and hot water heating pipe temperature. All sensors can be installed up to 60 metres from the controller.

All sensors have digital outputs, ensuring that:

- They are immune from electrical noise
- They are fail safe
- The wiring between the controller and the sensor is simple

Hardware Features

- Internal mains transformer
- Three digital sensor inputs (all sensors can be connected to these three inputs)
- Eight 24VAC outputs with a total output current of 1A
- All outputs are protected by an electrical overload
- The function of each input is user configurable
- One fail safe alarm output