

Rain and Temperature Sensors

Wiring and Installation instructions

Rain sensor installation

The installation of all electrical items must be undertaken by a qualified technician.

The rain sensor comes fitted in a twopart enclosure. This enclosure must be fitted where it will come into direct contact with rain. Do not fit in the gutter.

When connecting the rain sensor to the Evolution 3 controller please note that only the blue, yellow, and screen wires are operative.

The top of the enclosure simply pulls off the bottom section revealing a plug and socket connector inside.

The plug and socket are designed for ease of replacement should it be required in the future.

Find a suitable open place to site the rain sensor and fix it in place by means of the double-sided tape on the underside of the box.

Make sure that the cable exits on the lower side of the box (downhill) and seal the cable to the box with a suitable sealant to prevent water ingress.

Check that the plug and socket are correctly connected and replace the lid with the word “top” uppermost (uphill). The lid is a tight fit and does not need sealing under normal circumstances.

Temperature sensor

The temperature sensor provided with your controller must be fitted inside the conservatory and must not be extended in length.

Head high is usually a good place to site the sensor as heat is usually felt on the face and head-first when entering a room.

Failing a good site being obvious you can also fix the sensor to the underside of the controller, as in the picture, providing the controller is situated in the conservatory.

NEVER UNDER ANY CIRCUMSTANCE FIT THE SENSOR WITHIN THE CONTROLLER HOUSING AS THIS WILL LEAD TO MALFUNCTION.



(Temperature sensor shown on underside of the control unit box)

Wiring info

Please seal cables to ensure that no water is transferred from outside the building to the controller as system failure or physical injury may occur.

Never run sensor cables within 150mm of mains or power carrying cables.

If your Evolution 3 climate control unit came supplied with a remotecontrol kit you will not need to connect the temperature sensor, as the remote receiver box has an integral temperature sensor. Please follow the wiring instructions as detailed in the remote-control kit instructions.

DO NOT FIT THE CONTROLLER IN A DAMP OR WET ENVIRONMENT.

NEVER USE LIQUIDS TO CLEAN THIS CONTROLLER

Rain sensor issues

Your set-up is now complete! If you wish to change anything, follow the procedure through again.

If you are experiencing problems with the roof vents not closing when it rains, or vents opening whilst it is raining, or the controller showing rain when it is not raining, the following will help you resolve the problem.

It is important to acknowledge that in most cases the Evolution 3 controller itself will not be the cause of the problem.

For a better understanding of how things work consider the Evolution 3 controller and the Rain Sensor as separate entities.

The rain sensor is a low voltage (12V DC) circuit which is completed by water bridging the contacts on the external sensor. No water = no complete circuit = no rain signal.

The system is very simple, but there are a few things that can cause faults.

1. If you have a bad connection in the green terminal plug in the back of the controller where the two rain sensor wires fit, the system will not work.
2. At the other end of the rain sensor wire is the sensor itself. Remove the detachable lid and you will see a blue push-on connector. Check that the two wires are pressed firmly into the two central slots.
3. Where the blue connector is affixed to the rain sensor 'lid' there are four pins. These can corrode or give a 'dry joint'. Clean the pins and apply a smear of petroleum jelly to them and reconnect.
4. Check that the rain sensor itself is clean. On the outside of the rain sensor 'lid' is the circuit, which if dirty will impede the completion of the circuit when it rains. Do not use abrasives, but clean with a dry cloth. If it is dirty or damp, this can also indicate rain when there is none.
5. Check that the wires aren't broken or damaged. Have a qualified electrician test them.
6. Condensation on or inside the sensor box can give a false rain indication. Check that the sensor is dry and that the cable is sealed where it enters the box.
7. Check that the sensor is fitted where it will be in contact with the rain. If not, the vents may not open during rainy periods.

In all cases you must exercise care and use only qualified technicians to undertake any electrical work, ensuring health and safety guidelines are followed.