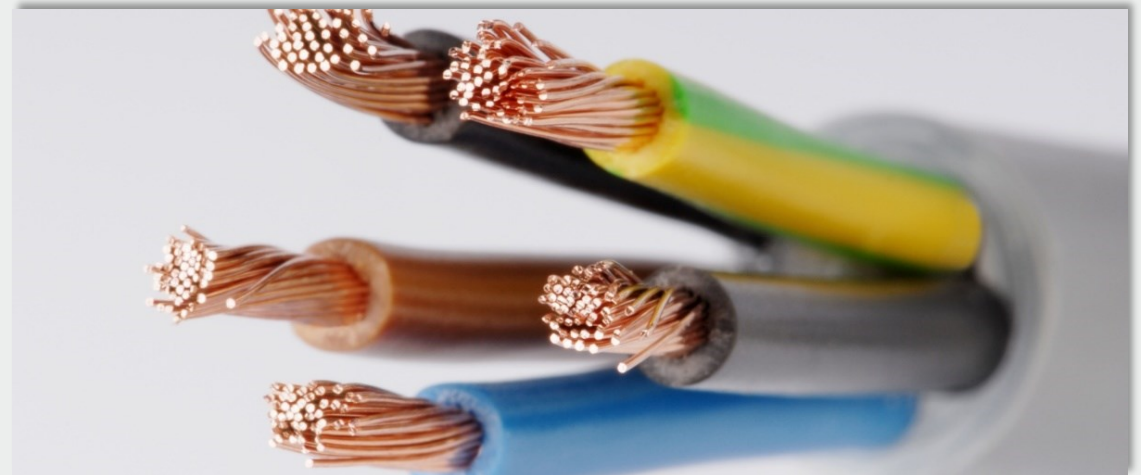# ROOF MAKER
WORLD CLASS ROOFLIGHTS

Rooflight Wiring Guide:

24 Volt Wall-Mountable Control Module

+ Optional Remote-Control & Rain Sensor

Ventec 100 Series Climate Control Module
with Rain Sensor

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Rooflight Wiring Guide

Contents:

24 Volt Wall-Mountable Control Module + Optional Remote-Control & Rain Sensor

Ventec 100 Series Climate Control Module + Rain Sensor

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Wiring Guide:

24 Volt Wall-Mountable Control Module

Optional Remote-Control + Rain Sensor

⚠️ **Safety Notice**

Wiring Must Be Carried Out by A Qualified Electrician

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If you have opted for an opening rooflight with a wall mountable control module, this guide outlines how to wire the control module to your rooflight and mains power supply. This guide also covers how to wire a rain sensor, along with synchronising your remote control, if this has been opted for.

The wall mounted control module does not have to be wall mounted - If you have also opted for remote control operation, you can conceal the control module out of site use the remote control as your sole means of operation. We advise in this scenario, that you still use the provided back box, as this will protect your wired connections on the control module. If concealing, you must locate the control module in an accessible location, should any maintenance be required in future.

Please note: Your control module receives your remote-control signal and operates to a maximum 20-metre range. Please bear this in mind when positioning your control module.

What will I receive?

As standard, in addition to your rooflight you will receive:

- Your wall mounted control module + 2 machine screws
- 1x white plastic backbox (wall fixings not provided)

If you have added remote control operation with rain sensor, you will also receive:

- Your remote control + 2x AA batteries
- 1x wall mountable holder with adhesive pad
- 1x rain sensor*

*For the Flat Hinged Opening Rooflight and Roof Access Rooflight, your rain sensor will come pre-fitted to your rooflight. For the Opening Luxlite and Slimline Lantern with vent, you will receive the rain sensor and mounting bracket separately, to install in a location of your choice.
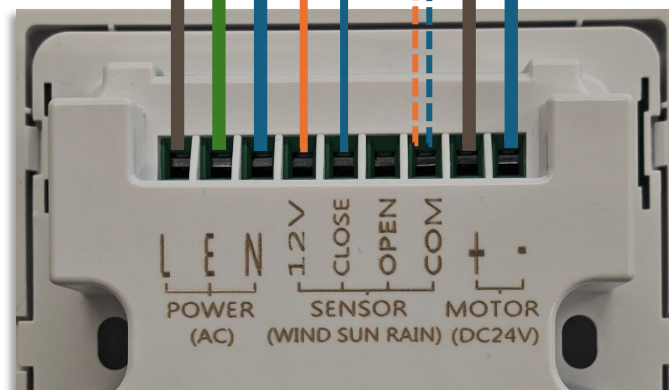
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Wiring Guide:

24 Volt Wall-Mountable Control Module

Mains Power 230v AC

We Recommend you run off a fused spur placed in an easy to access location, enabling you to isolate power to your rooflight if required.

Neutral to 'N'

Earth to 'E'

Live to 'L'

Optional Rain Sensor*

Solid Orange to '12V'

Solid Blue to 'CLOSE'

Orange/White to 'COM'

Blue/White to 'COM'

Rooflight Actuator*

Connect multiple actuators to the same the terminals for rooflight.

Live (+)

Neutral (-)

L E N 1.2V CLOSE OPEN COM + .

POWER   SENSOR   MOTOR
(AC)   (WIND SUN RAIN) (DC24V)

*PLEASE NOTE WHEN EXTENDING CABLES...

From Rooflight Actuator – Your rooflight actuator/s will come with approx. 1 metre of cable, so extending your cables to the location of your control module will be necessary. Due to the motor/s being 24v, you need to ensure you use a cable with a minimum 2mm core thickness when extending your cables. If extending over 10m, increase thickness to 2.5mm core.

For 2 motors, you need to ensure both cables are the same length, to avoid your motors operating at different speeds.

From Rain Sensor – Please follow exactly the same guidance as the rooflight actuator in terms of cable thickness required. You may use a 3-core cable, as the orange/white & blue/white cables can run into a single core (both are wired to the COM terminal).

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Wiring Guide:

24 Volt Wall-Mountable Control Module – Programming Your Remote Control

If you have opted for remote-controlled operation, you will need to synchronise your remote control to the control module for it to work. The below instruction shows this is achieved in 2 simple steps. Firstly, please ensure the control module is connected to the power supply and the blue LED is lit solid (not flashing), and you have put the supplied batteries into your remote control before proceeding.
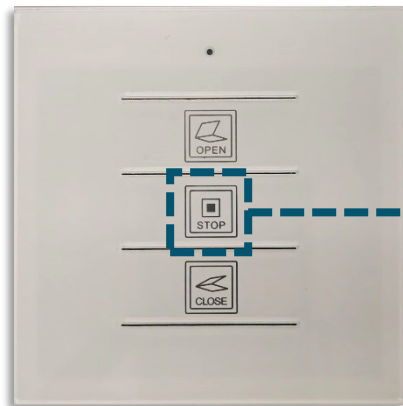
1) Press and hold the stop button on the control module for 5 seconds until the blue LED light begins to blink.

2) Within 10 seconds of the LED blinking on the control module, press and hold the 'up' button on your remote control. The blue light should no longer blink on the control module and should now be solid.

Your remote control is now paired to your control module, and you will be able to use both devices to control your rooflight.
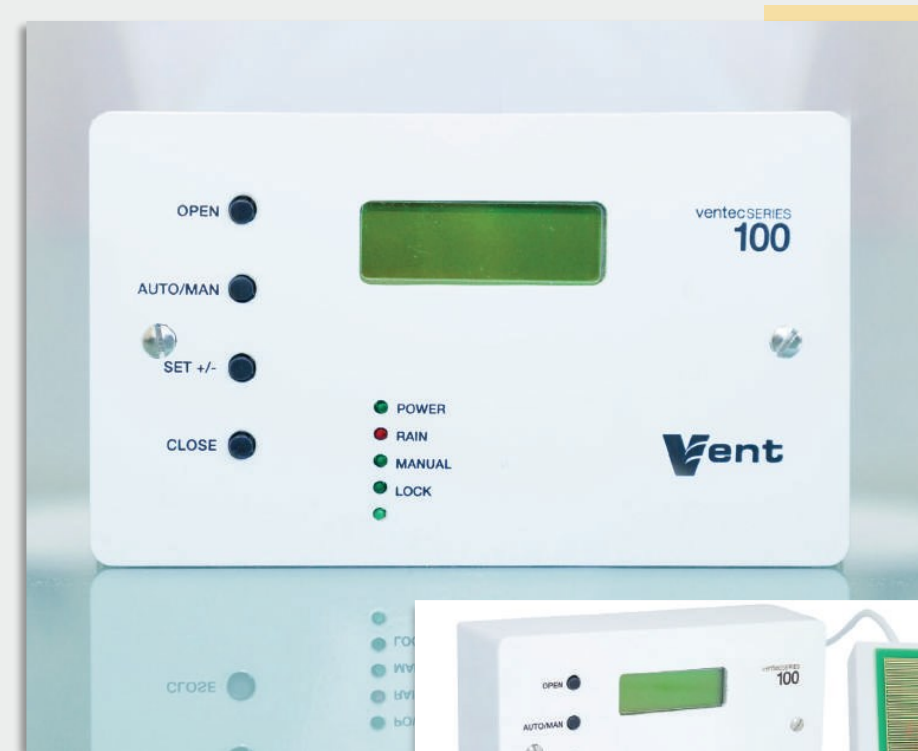
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Wiring Guide:

Ventec 100 Series
Climate Control Module + Rain Sensor

⚠️ **Safety Notice**

Wiring Must Be Carried Out by A Qualified Electrician

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If you have opted for a Slimline Roof Lantern with a Ventec 100 series climate control module and rain sensor, this guide outlines how to wire the control module to your rooflight vent actuator, rain sensor and mains power supply.

The wall mounted climate control module houses a built-in thermostat and is designed to allow you to set your minimum and maximum desired room temperatures. Should your room exceed the maximum temperature set, it will trigger your vent to open which will in turn disperse the heat in the room. When the room then falls below your minimum desired temperature, the thermostat will trigger your vent to close, preventing further heat loss.

What will I receive?

In addition to your Slimline Roof Lantern, you will receive:

- Your wall mounted climate control module + 2 machine screws
- 1x white plastic double sized backbox (wall fixings not provided)
- 1x rain sensor with 12 metres of cable*

*You must install the rain sensor in a location that rainfall will reach it when it rains, preferably away from a wall that might shield it from the rain, should it be raining at an angle. A recommendation would be to use sticky pads to mount it onto the glass near the base of the roof lantern, which will also give It the angle required, as mentioned in the wiring guide.
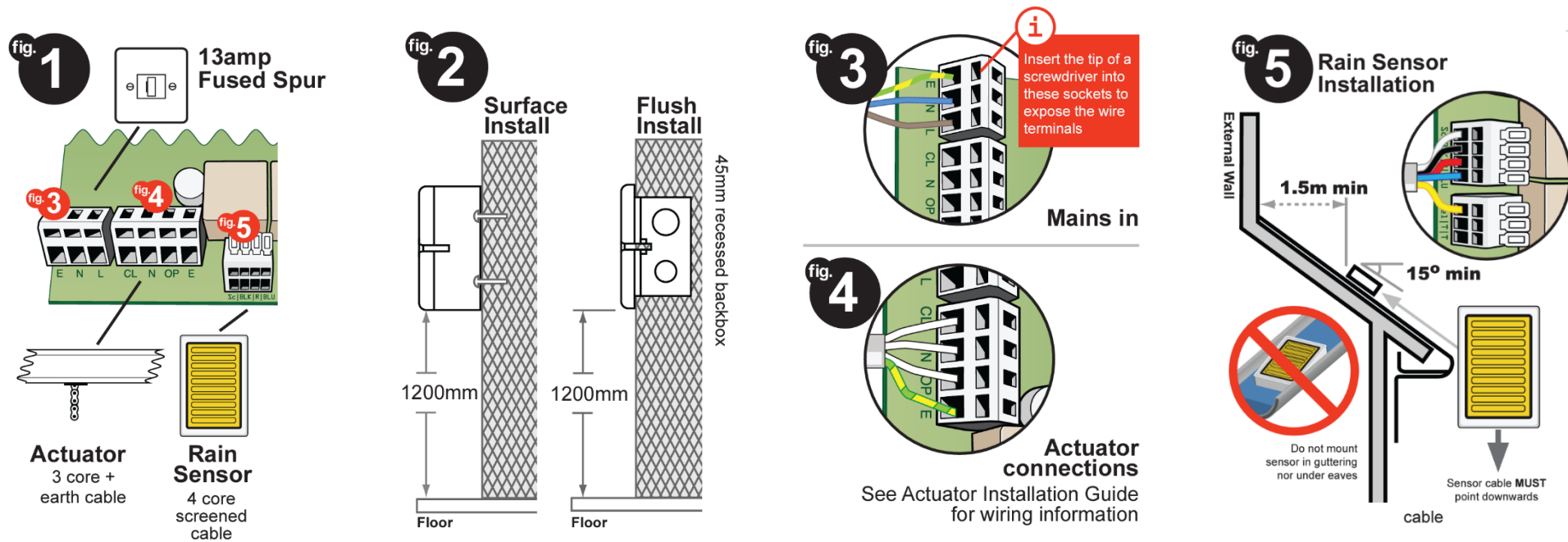
We also recommend you clean your rain sensor quarterly, so it continues to perform as intended. A soft, damp microfibre cloth should be sufficient for this.

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Wiring Guide:
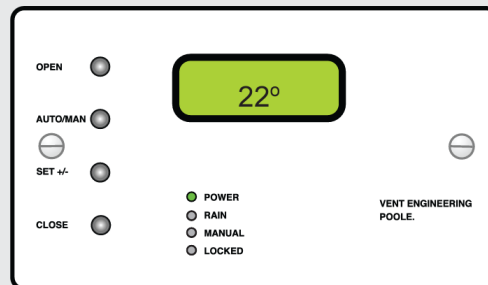
Ventec 100 Series Climate Control Module + Rain Sensor

fig. 1

13amp Fused Spur

fig. 3 **fig. 4** **fig. 5**

E N L   CL N OP E   Sc|BLK|R|BLU

Actuator
3 core + earth cable

Rain Sensor
4 core screened cable

fig. 2

Surface Install   **Flush Install**

45mm recessed backbox

1200mm   1200mm

Floor   Floor

fig. 3

Insert the tip of a screwdriver into these sockets to expose the wire terminals

E N L CL N OP

Mains in

fig. 4

L CL N OP E

Actuator connections
See Actuator Installation Guide for wiring information

fig. 5 **Rain Sensor Installation**

External Wall

1.5m min

15° min

Do not mount sensor in guttering nor under eaves

Sensor cable **MUST** point downwards

cable

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Additional user settings

Preset Opening Temperature

OPEN
AUTO/MAN
SET +/-
CLOSE
22°
● POWER
○ RAIN
○ MANUAL
○ LOCKED
VENT ENGINEERING POOLE.

To adjust opening temperature

OPEN **A**
AUTO/MAN
SET +/- **B**
CLOSE
23°
● POWER
○ RAIN
○ MANUAL
○ LOCKED
VENT ENGINEERING POOLE.

In Auto mode, hold 'A' & repeat press 'B'

To manually open and close

Press and hold **AUTO/MAN** for 2 seconds until MANUAL light comes on then use the **OPEN** or **CLOSE** buttons to adjust the window position.

OPEN
AUTO/MAN
SET +/-
CLOSE
manual
● POWER
○ RAIN
● MANUAL
○ LOCKED
VENT ENGINEERING POOLE.

Press and hold **AUTO/MAN** for 2 seconds to return to automatic mode.

Preset Closing Temperature

OPEN
AUTO/MAN
SET +/-
CLOSE
18°
● POWER
○ RAIN
○ MANUAL
○ LOCKED
VENT ENGINEERING POOLE.

To adjust closing temperature

OPEN
AUTO/MAN
SET +/- **B**
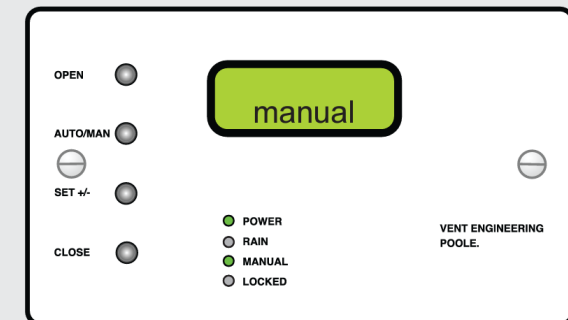CLOSE **A**
17°
● POWER
○ RAIN
○ MANUAL
○ LOCKED
VENT ENGINEERING POOLE.
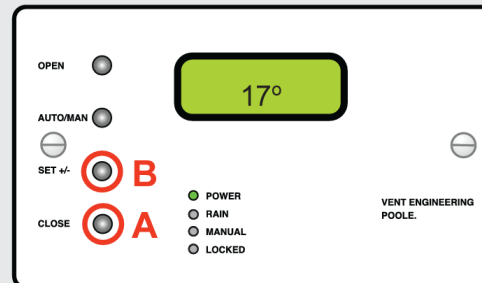
In Auto mode, hold 'A' & repeat press 'B'

We advise a difference of at least 2° between the opening and closing temperature.

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Troubleshooting - Ventec 100 Series Climate Control Module

- **It has recently stopped raining, but my windows have not opened again. Why is this?**

In Auto mode the 100 series controller has a built-in time delay of 5 minutes between the rain sensor drying and the unit becoming fully operational. This will be indicated by the presence of the Rain LED on the front panel. For the unit to operate, the current temperature will need to be higher than your desired opening temperature. In manual mode you should have full control of the unit.

- **Only the set +/- button on my panel does anything?**

This means your panel has been locked. To unlock your unit, see the instructions at the end of page 12.

- **Can I change the default lock/unlock code?**

No. The code has been preset to avoid the need for a complete system reset should the new code be forgotten.

- **My rain sensor seems to have become less responsive. Why is this?**

Check the unit has not slipped or fallen into an undesired position and try cleaning the metallic sensor plate with a soft damp cloth. We recommend the rain sensor is cleaned on a quarterly basis to ensure it works as intended.

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Advanced Operations - Ventec 100 Series Climate Control Module

The default settings of the 100 series control Module are suited to most user applications. However, if you need to make advanced alterations to the thermostat, actuator, and lock calibration, then please use the following guide.

To enter 'advanced' setup, set your unit to "AUTO" mode then press and hold the AUTO/MAN plus SET +/- buttons simultaneously for 5 seconds.

Your screen should now read -
```
   ADV
  SETUP
```

After a moment the screen will change to display -
```
To Advance
Press SET +/-
```

Using SET+/- is how you scroll through the available options and saves each stage of any alteration. Now press SET +/-. The screen will read -
```
To + a value
Press Open
```

The Open button is used to increase any value. Press SET +/- again. The screen will read -
```
To - a value
Press Close
```

The Close button is used to decrease any value. Press SET +/- again. The display will read -
```
Proceed to
ADV Setup
```

Now you can proceed to the advanced setup options. Press SET +/- again. The display will read -
```
Room Temp
is now XXc
```

'XX' being the current temperature in your room.

By using Open (+) and Close (-), you can calibrate the display temperature.   *Continued on next page.....*

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Advanced Operations - Ventec 100 Series Climate Control Module

Continued.....

Press SET +/- again. The display will read –

```
   Full open
Cycle 013sec
```

13 seconds is the amount of time for the motor to operate and fully open. In most cases this default setting is adequate. You can of course alter this setting for your actuator, by pressing the Open (+) and Close (-) buttons.

Press SET +/- again. The display will read –

```
   Opening
Temp =22c
```

This relates to the temperature that the room must reach before the actuator will operate. You can alter this setting by pressing the Open (+) and Close (-) buttons.

Press SET +/- again. The display will read –

```
   Closing
Temp =18c
```

This relates to the temperature that the room must fall to before the actuator will operate. You can alter this setting by pressing the Open (+) and Close (-) buttons.

Press SET +/- again. The display will read -

```
AUTO LOCK
MODE OFF
```

Using auto lock is a security feature that prevents the unit from being used without entering a passcode first. You can turn this on or off by pressing the Open (+) and Close (-) buttons. Press SET +/- again will take you back to 'AUTO' mode.

THE UNLOCK SEQUENCE IS (Press buttons in this order): Button 2 (AUTO/MAN)-Button 1 (OPEN)-Button 3 (SET +/-)-Button 4 (CLOSE)