



AIRFLOW 90001575 RF MEV WH4H Controller Basic Instruction Manual

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AIRFLOW 90001575 RF MEV WH4H Controller Basic



Product Information

- The remote control is designed to be used exclusively with Airflow AIROVENT RF MEV WH4H Central Extract Units. If purchased separately, the remote control needs to be connected to the Airflow ventilation unit by a professional installer.
- This manual provides information on the operation of the AIROVENT RF MEV WH4H CONTROLLER – BASIC. It should be read in conjunction with the relevant AIROVENT RF MEV WH4H Central Extract Unit Control Manual.
- Proper storage and transportation of the controller is important to avoid damage. The controller should be packaged appropriately for transport. Improper transportation, storage, or installation may void the warranty. Dropping or subjecting the controller to sharp blows can cause damage. Any damage to the controller or packaging should be inspected by a qualified person or returned to Airflow Developments Ltd for inspection before use.
- The remote control can be separated from the mounting base by opening it via the push button located on the underside. The wall frame can be mounted using the supplied screws and plugs or stuck in place with a suitable adhesive. It is important to ensure that the “UP” marking on the inside of the controller cover is at the top when mounting. The remote control should be installed at a height of 1.5m on a vertical, flat surface. Avoid installing it near large metal objects and keep it out of reach of children.
- During start-up, when the device is connected to the voltage supply, the LED on the receiver PCB in the AIROVENT WH4H Central Extract Unit flashes alternately red, green, and red. Afterward, the LED turns green for 3 minutes, indicating that the device is in learning mode and can be linked to a remote control or CO2 sensor.
- Two RF remote controllers are available: a basic controller (Part No: 90001489) and a controller with a built-in CO2 sensor (Part No: 90001490). Each WH4H unit must have at least one RF Controller. Each unit can be paired with up to 20 controllers. Before pairing, the unit should be isolated from the electric supply for a minimum of 5 seconds. The LED on the controller will flash red and then green.
- When electric power is re-installed in the unit, the LED on the PCB will flash red and green, then remain green for 3 minutes. During this time, the RF controllers can be paired to the unit. Ensure that the controller has a fitted battery.

Product Usage Instructions

1. Connect the remote control to the Airflow AIROVENT RF MEV WH4H Central Extract Unit by a professional installer.
2. Read and understand the AIROVENT RF MEV WH4H Central Extract Unit Control Manual in conjunction with this manual.
3. Ensure proper storage and transportation of the controller to avoid damage.
4. During installation, make sure to mount the remote control at a height of 1.5m on a vertical, flat surface.
5. Separate the remote control from the mounting base by opening it via the push button located on the underside.
6. Mount the wall frame using the supplied screws and plugs or suitable adhesive. Ensure that the “UP” marking on the inside of the controller cover is at the top.
7. Keep enough space free around the underside of the remote control for easy access to the push button from below.
8. Avoid installing the remote control near large metal objects and keep it out of reach of children.
9. If in doubt during installation, contact Airflow Developments Ltd for advice at info@airflow.com or Tel: +44 (0)1494 525 252.
10. Connect the device to the voltage supply and observe the LED on the receiver PCB in the AIROVENT WH4H Central Extract Unit. It will flash alternately red, green, red during start-up.
11. After start-up, the LED on the receiver PCB will turn green for 3 minutes, indicating that the device is in learning mode.
12. Pair the remote control or CO2 sensor with the AIROVENT WH4H Central Extract Unit during the 3-minute learning mode.
13. Ensure that the controller has a fitted battery before pairing.
14. Isolate the unit from the electric supply for at least 5 seconds before pairing.
15. Pair up to 20 RF controllers with each WH4H unit.

Introduction

- The AIROVENT RF MEV WH4H CONTROLLER – BASIC was specially developed for the AIROVENT RF MEV WH4H Central Extract Unit. Radio Frequency (RF) control means that the central extract unit can be switched remotely and wirelessly by one or several remote controls, up to a maximum of 20. The RF control signal is received by a receiver on the printed circuit board (PCB) inside the central extract unit. The remote control has 6 buttons for selecting the required position or mode: absent (away), low, medium, high, automatic, and timer (refer to Control

Buttons Explained on Overleaf).

- The remote control is intended for exclusive use with Airflow AIROVENT RF MEV WH4H Central Extract Units. If bought separately, the remote control must be connected for the first time to the Airflow ventilation unit by the installer.

Technical Data	
Power Supply	3V Battery (Type CR2032)
Dimensions (mm) (W x H x D)	83 x 80 x 18.3
Weight	125g
RF Frequency	868.3 MHz
Min/Max Ambient Temp.	0 - 40°C
RH Level	0 - 90% non-condensing
IP Rating	IP30

Safety Information and Guidance

IMPORTANT!

- Read these instructions carefully before installing this controller.
- This manual covers the operation of the AIROVENT RF MEV WH4H CONTROLLER – BASIC only. It must therefore be read in conjunction with the relevant AIROVENT RF MEV WH4H Central Extract Unit Control Manual.

Storage and Transportation

- Controllers should be stored in their original packaging in a dry environment, protected from the weather, and are suitable for storage temperatures of between 0°C and +40°C.
- Care should be taken when re-packaging any controllers to ensure the packaging is suitable for the required form of transport.
- Installation of this controller must be carried out by a qualified and suitable competent person and carried out in clean, dry conditions where dust and humidity levels are at a minimum.
- Damage due to improper transportation, storage, or installation is not covered under warranty. Dropping or sharp blows to the controller can cause damage. Any damage to the controller or packaging should be inspected by a suitably qualified person or returned to Airflow Developments Ltd for inspection before use.

Mounting

- The remote control can be separated from the mounting base opened via the push button (see Figures 2 and 3), which is located on the underside.



Fig. 2 – RF Controller exploded view.



Fig. 3 – Back of RF Controller

- The wall frame can then either be mounted with the 2 supplied screws and plugs or be stuck in place with a suitable adhesive. Please note: “UP” is marked on the inside of the controller cover above the battery. When mounting make sure that the “UP” is at the top.
- Keep enough space free around the underside so that the push button can be easily accessed from below. It is recommended that the remote control is installed at a height of 1.5m on a vertical, flat surface. Never install the remote control near large metal objects and keep the remote control out of the reach of children. If there is any doubt, contact Airflow Developments Ltd for advice at info@airflow.com or Tel: +44 (0)1494 525 252.

Device Start-up

- When the device is connected to the voltage supply: during start-up, the LED on the receiver PCB in the AIROVENT WH4H Central Extract Unit (figure 1) flashes alternately red, green, and red.

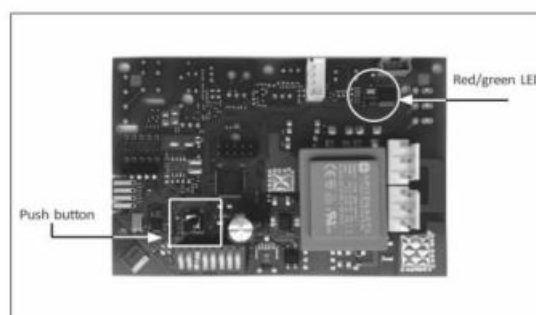


Fig. 1 - Receiver PCB located inside the AIROVENT RF MEV WH4H central extract unit.

- Then the LED on the receiver PCB turns green for 3 minutes, during which time the device is in learning mode and can be linked to a remote control or CO2 sensor.

Pairing

- Two RF remote controllers are available, a basic controller (Part No: 90001489) and a controller with a built-in CO2 sensor (Part No: 90001490). Each WH4H unit must have at least one R F Controller.

- Each unit can be paired with up to 20 controllers. A mixture of controllers can be used to suit the application.
- Before pairing the unit should be isolated from the electric supply for a minimum of 5 seconds.
- The LED on the controller will flash red and then green.
- When electric power to the unit is re-installed the LED on the PCB will flash red and green then remain green for 3 minutes. At this time the RF controllers can be paired to the unit.
- **Note:** Ensure the controller has a battery fitted.
- Pairing the controller(s) to one unit is done by pressing the “1” and “auto” buttons, on the controller simultaneously, while the unit PCB LED is green until the LED on the controller flashes red–green–red. To show the pairing is complete the LED on the unit PCB and the LED on the controller will flash green ten times. Also, the unit will run for a short period at a higher speed.
- Alternative pairing procedure. Leave the unit connected to the electric supply. Remove the white top cover from the unit. Briefly press the push button on the unit's PCB.
- **CAUTION!!** Risk of Electric Shock. Do not touch other parts of the PCB as they remain live. After which the LED will remain green for 3 minutes. At this time the controller can be paired to the unit by pressing the “1” and “auto” buttons on the controller as previously stated.
- Pairing controller(s) to Several Units. To do this follow the alternative pairing procedure except push buttons “2” and “auto” on the controller simultaneously for 3 x seconds.
- To replace a basic controller, all controllers must be unpaired from the AIROVENT RF MEV WH4H unit PCB, and then any controller(s) needed must be re-paired to the unit PCB.
- Un-Pairing Controllers. Remove the white top cover from the unit. Press the push button on the unit's PCB. (See Fig. 1) for 15 seconds until the LED is simultaneously red and green (orange). Release the push button, the LED will flash red, green, and red. All connections to controllers are now cut.

Timer Mode

- In the timer mode, the device operates in the high position for the required time, after which the device returns to the last selected position.
- Pressing once causes the device to operate in the high position for 15 minutes, pressing twice for 30 minutes, and pressing three times for 60 minutes.
- The timer can be canceled by selecting another button.

Auto Mode

- In auto mode the device operates in accordance with signals from the integrated humidity sensor.

Away Mode

- In the Away Mode, the device runs in an extra energy-efficient low position and does not respond to signals from sensors.

Battery replacement

- If the LED indication on the remote control flashes orange once or does not react when you operate one of the control buttons, the cause is probably a low battery. To replace the battery, click on the push button on the wall

frame (See Fig. 3) of the remote control to remove the upper part of the wall frame of the remote control. Remove the old battery from the remote control. Insert the new battery with the positive side facing you (see Figure 4 on the overleaf). Replace the protective cover and click the upper side shut on the wall frame with a hinge movement. In normal use, a new battery has a service life of about 6 years.

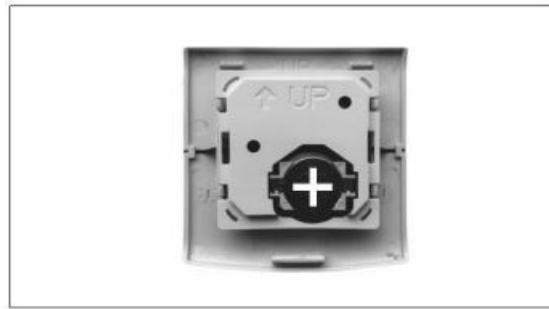


Fig. 4 – Battery holder

Control Buttons Explained

1, 2 & 3 Buttons:

- By pressing one of these buttons, you can manually choose the unit's ventilation rate.
- **Note:** speed two (2) should be the everyday running rate. Speed three (3) should be the boost rate that can be used to remove air contaminants quickly. Airflow rates should follow the calculations and methods specified in Building Regulations Part F.
- When one of the three-speed buttons are pressed, it will override any automatic functions set such as humidity from the sensor in the unit, or if a CO2 Controller is being used (90001490).

Timer Button:

- When the timer button is pressed the ventilation rate will run at speed three (3). The time the unit will stay at high speed is dictated by how many times the timer button is pressed.
- Press once for 15 minutes. (LED flashes green once) Press twice for 30 minutes. (LED flashes twice) Press three times for 60 minutes. (LED flashes three times)
- This can be canceled by pressing any other button on the controller.

Auto Button:

- Pressing the Auto button enables sensors being used in the system to control the unit's ventilation rate. This can be done by pressing any other button on the controller.

Absence Button:

- Once this button is pressed the system runs at speed one and is not affected by any sensors in the system (humidity, CO2 sensor if controller with CO2 sensor installed).
- **NOTE:** This ventilation rate may not be correct for the everyday use of the property. Air contaminants may not be extracted at the rates specified in Building Regulations Part F. This can be canceled by pressing any other button in the controller.

- If you should have any problems, please contact Airflow Developments Ltd at info@airflow.com or Tel: +44 (0)1494 525 252.

LED Indicator Explanation

- When operating the controller, input will be read by the controller and an LED light located between button '2' and the 'Auto' button will provide feedback.
- Timer LED Indicator notifications can be found under Control Buttons Explained.
- 1 green flash – Device OK, message received.
- 10 green flashes – Successful connection with MEV unit.
- 3 red flashes – RF communication problem.
- 2 red flashes – Message received but problem in device.
- 1 orange flash – Low battery.
- 2 orange flashes – Remote control reset carried out.

End of Life

- The controller front cover and mounting base are manufactured from plastic. Inserted inside is a silicone-based PCB. Controllers and parts used in it that are end of life due to wear and tear, corrosion, fatigue, and or other effects that cannot be discerned, must be disposed of in the correct manner conforming to local and/or international guidelines and regulations.
- **Important Environmental Information:** This symbol indicates that disposal of this unit after its life cycle could harm the environment. The unit should be disposed of by a specialized company for recycling.
- If in doubt, contact your local authority about waste disposal guidelines and regulations.
- Has not been connected to an unsuitable electrical supply.
- Has not been subjected to misuse, neglect, or damage.
- Has not been modified or repaired by any person not authorized by Airflow Developments Ltd.

Warranty

- Airflow guarantees the AIR OVENT RF MEV WH4H CONTROLLER – BASIC in these instructions for 1 year from the date of purchase against faulty material or workmanship. Applicable to units installed and used in the UNITED KINGDOM.
- The warranty covers the controller and not the re-installation if required. In the event of any defective parts being found, Airflow Developments Ltd reserves the right to repair, or at our discretion replace without charge, provided the unit has been installed in concordance with the fitting and wiring instructions supplied with each unit and the following clauses on.
- Has been installed by a person who is recognized as a competent person.
- Has only been used with Airflow Developments approved accessories.
- Airflow Developments Ltd shall not be liable for any loss, injury, or other consequential damage, in the event of a failure of the equipment, arising from, or in connection with, the equipment excepting only that nothing in this condition shall be construed as to exclude or restrict liability for negligence. Full details at airflow.com/terms.
- This warranty does not in any way affect any statutory or other consumer rights.

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Documents / Resources

	<p>AIRFLOW 90001575 RF MEV WH4H Controller Basic [pdf] Instruction Manual 90001575 RF MEV WH4H Controller Basic, 90001575, RF MEV WH4H Controller Basic, Controller Basic</p>
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References

-  [Terms and Conditions](#)