

RF 3-position switch

Description

Every Vasco ventilation unit comes standard with an RF 3-position switch (with the exception of the D150 Compact and Energy Plus, which are not compatible). This RF 3-position switch is not linked to the ventilation unit. After pairing (see below), the user can select the ventilation level directly (low, medium or high).

In addition, the switch has a timer function, which automatically sets the ventilation unit to the highest speed for 30 minutes.

During commissioning of the ventilation unit, the RF 3-position switch is also used to set the maximum flow rate of the unit.



General features

- Control buttons
 - Four buttons: setting 1 (low), setting 2 (medium), setting 3 (high) and timer function
 - Intuitive ventilation symbols: 
- Central feedback LED
 - One LED in the centre (colours green/orange/red)
 - Displays feedback during operation, connection status and error messages

Pairing options

- Support for connecting up to 3 ventilation units to one or more controls
- Option to connect up to 20 RF switches (CO₂, RH or 3-position) to a single ventilation unit

Communication

- Wireless RF communication with the ventilation unit
- Radio frequency signal: 868.3 MHz

Power and consumption

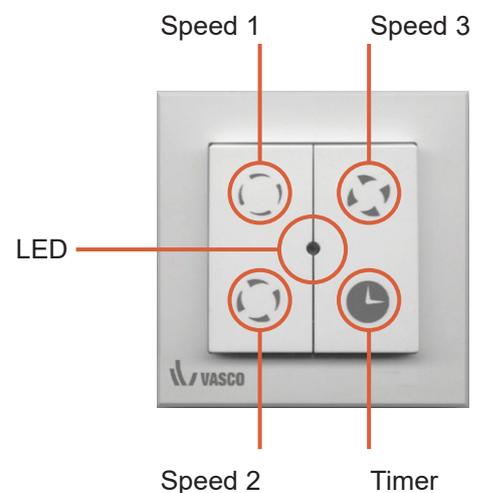
- Internal power supply: battery powered (via internal CR2450 battery included)
- Expected battery life: 10 years (based on average use of one operation per day)

Measurement and operating data

- Operating temperature: 0 - 40°C
- Storage temperature: -20 - 55°C
- Storage humidity: 0 - 85% (non-condensing)

Physical properties

- Dimensions (l x w x h): 83x16x83 mm
- Housing: plastic
- Protection class: IP30
- Mounting: Screw onto wall or flush-mounted box, or stick on using the pre-fitted double-sided tape



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Technical data

Symbol	Function	Description
	Speed 1	Ventilate at 25% of the maximum set air flow rate
	Speed 2	Ventilate at 50% of the maximum set air flow rate
	Speed 3	Ventilate at 100% of the maximum set air flow rate
	Timer	The ventilation unit will ventilate at ventilation speed 3 for 30 minutes. After this time has elapsed, the ventilation unit will return to its previous speed.
	Auto position	Press and hold the 'Speed 1' button for 3 seconds to activate auto mode. For control via a 0-10V signal, auto mode must be activated, except for the 225 Compact and Boost units; this is not required for these models.
	Reset filter notification	Reset the dirt filter warning by pressing the 'Speed 1' and 'Timer' buttons simultaneously for at least 4 seconds until the LED lights up green. Perform this reset after replacing the filters.
	Connecting	Unplug the ventilation unit from the mains and plug it back in. The ventilation unit will then search for new switches for 10 minutes. Press the "Speed 2" and "Timer" buttons simultaneously for at least 3 seconds. If the pairing is successful, the LED in the middle will light up green twice.
	Disconnecting	Press the "Speed 1" and "Speed 3" buttons simultaneously for at least 3 seconds. This will disconnect the switch from the ventilation unit(s). The switch's LED will flash orange twice to confirm that the disconnection has been completed.
	Setting maximum ventilation flow rate	Unplug the ventilation unit from the mains socket and plug it back in. Then press the button for speed 3 for at least 3 seconds. Release the button as soon as the LED in the centre of the switch displays a series of light signals corresponding to the ventilation rates described on the following page. Confirm the selected maximum ventilation flow rate by pressing the same button again for at least 3 seconds.

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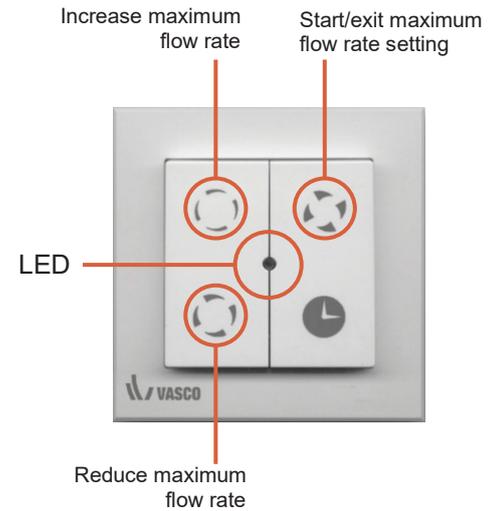
Technical data

Setting maximum ventilation flow rates

During commissioning, the maximum ventilation flow rate can be set using the RF 3-position switch. Commissioning starts as soon as the unit is powered up and lasts 10 minutes. The maximum flow rate setting is activated or deactivated by pressing and holding speed 3 for 3 seconds.

The RF 3-position switch offers 7 levels for maximum flow rate. Speed 1 increases the level and speed 2 decreases it; each press changes it by one step. The LED indicator shows the selected level: 1x green is the lowest adjustable flow rate, 2x red is the highest via the switch.

For the exact flow rates per LED indication, please refer to the ventilation unit manual.



Behaviour when controlling multiple ventilation units

When the RF 3-position switch is connected to multiple ventilation units, the same ventilation request (speed 1, speed 2, speed 3 or timer function) is sent simultaneously to all connected units. All units always follow the last RF command received, ensuring uniform and synchronised control.

Deviations such as error codes or other unit-specific conditions only affect the ventilation unit concerned. In such cases, the LED on the RF 3-position switch displays the error indication for that unit (e.g. 2x red for "Issue with the ventilation unit"). The meaning of each error code is listed in the table at the bottom of this page.

Behaviour with multiple RF switches

Within the RF range, RF RH and RF CO₂ switches can be connected to the same ventilation unit together with the RF 3-position switch and jointly influence the automatic control. Automatic mode is activated by pressing and holding speed 1 for 3 seconds.

With multiple RF switches, the unit automatically follows each transition between manual and automatic operation. Each switch retains its own ECO or COMFORT mode and resumes it when returning to automatic operation.

In automatic operation, the highest ventilation demand determines the effective setting. In manual operation, the unit always follows the last manual change made.

Error codes + LED feedback

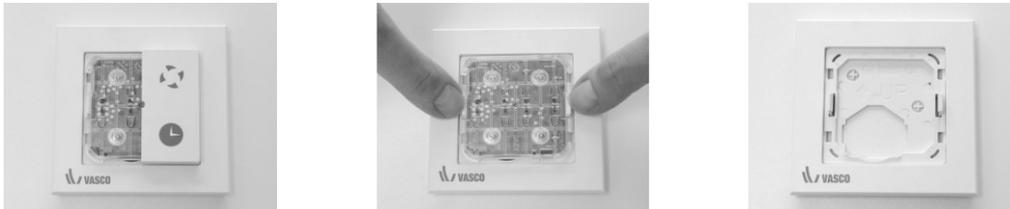
LED feedback	Description
Green	The requested communication has been correctly communicated
2x green	Successful connection of the RF switch
orange (after operation)	Battery nearly depleted
2x orange (after operation)	Filter dirty alarm
2x orange (after disconnection)	Successful disconnection of the RF switch
3x orange	Access to flow settings denied
Red	Communication issue
2x red	Issue with the ventilation unit

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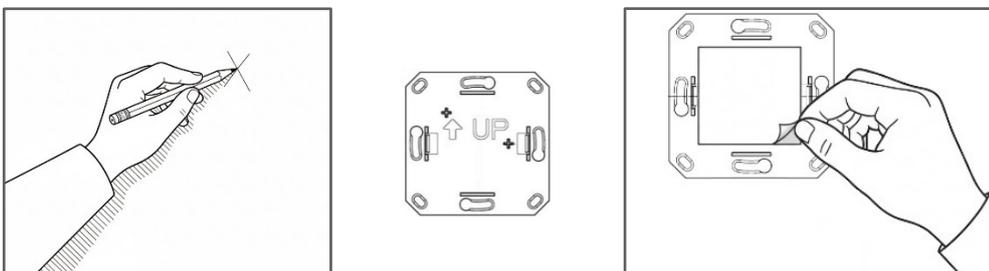
Installation

Always install the RF 3-position switch in an easily accessible location.

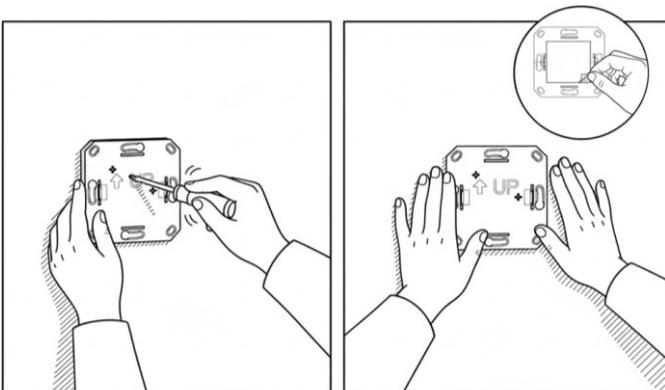
Step 1: Detach the buttons and the electronics module to free up the base plate for wall mounting.



Step 2: Mark the screw holes of the base plate on the wall. If mounting with double-sided tape is desired: remove the protective layer from the tape on the back of the base plate.



Step 3: Mount the base plate to the wall with screws, or stick the base plate to a flat, clean and grease-free surface using the double-sided tape.



Step 4: Assemble in the following order:



A. Design frame



B. Cover



C. Electronics and buttons