CO_2 RF SWITCH

DESCRIPTION

The Vasco ventilation unit is extendable with a CO_2 RF switch (except for the D150 Compact and Energy Plus: not compatible) with which you can opt for a fixed air flow or an air flow that varies with your needs.

- control zone in the lower right
- status LED in the upper left
  - lights up after operation
  - feedback communication / status of ventilation unit
- identification LED in the upper right, indicates the current level of the ventilation unit
- the possibility of combining up to 3 ventilation units on one or several remote controls
- the possibility of linking up to 20 RF switches (3-position/CO_2/RH (humidity)) with 1 ventilation unit
- wireless RF communication with the ventilation unit (Radio frequency signal: 868.3 MHz)
- power via external source (1x230V+N)
- maximum consumption: 4VA
- operating temperature: 0 - 40°C
- measurement range: 400 - 2000 ppm
- measurement tolerance: 40 ppm + 2% of measured value at 20°C
- dimensions lxwxh: 92x23x92 mm
- housing: plastic
- protection rating: IP30
- wall surface mounting (screw fastening)

TECHNICAL DATA

Symbol	Function	Description
	Ventilation setting 1	Ventilate at 25% of the maximum set air flow.
	Ventilation setting 2	Ventilate at 50% of the maximum set air flow.
	Ventilation setting 3	Ventilate at 100% of the maximum set air flow.
(A)	Eco mode	The ventilation unit will be modulation controlled so that the CO_2 value in the given room amounts to 950 ppm.
(A)	Comfort mode	The ventilation unit will be modulation controlled so that the CO_2 value in the given room amounts to 800 ppm.

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TECHNICAL DATA

Symbol	Function	Description
 (3 sec.)	Activating extra optional CO_2 RF switch	Take the ventilation unit plug out of the socket and put it back in again. After this, the ventilation unit will search for new switches for 10 minutes. Touch the control zone at the bottom right for at least 3 seconds. When all of the LEDs are flickering you must release the control zone. If the linking action is successful the LED lights up green twice in the upper left corner and on the right a LED will light up that indicates in which position the CO_2 RF switch finds itself.
 (10 sec.)	Deactivating optional CO_2 RF switch	Kill the switch briefly by clicking it out of and then back into the base plate. The switch can unlink ventilation units for 10 minutes. Touch the control zone at the bottom right for at least 10 seconds. When all LEDs light up green for the 2nd time you must release the control zone. In case of several activated ventilation units, all activated units are deactivated by this. The LED of the switch lights up red four times in order to indicate that the units are unlinked.

DETAILED FUNCTIONING

The switch performs a continuous measurement of the CO_2 content in the room. Every 10 minutes, or when an increase or reduction of 100 ppm is observed, this value is sent to the ventilation unit. Every 3 minutes the CO_2 RF switch will send the desired flow, as a percentage between 0 and 100%, to the ventilation unit. Whereby 0% is equal to the minimum achievable air flow of the given ventilation unit, and 100% is equal to the maximum air flow set (with the RF switch).

When the set air flow is higher than 70% of the maximum air flow to be ventilated of the ventilation unit, the 100% that is sent by the CO_2 RF switch to the ventilation unit will correspond to 70% of the maximum air flow to be ventilated. This is in order to prevent unwanted sound.

Attention: the ventilation unit must additionally be put into auto mode by means of the RF 3-position switch.

ERROR CODES + LED FEEDBACK

Error code	LED feedback
The requested communication is correctly communicated	Green
Problem with the communication	Red
Problem with the ventilation unit	Red - Red
Problem with the measurement of CO_2	Red - Red - Red
Switch not connected to a ventilation unit	Red - Red - Red - Red