



Flexit

ART. NO. 113243

EN

INSTALLATION INSTRUCTIONS

Wireless forcing switch V2

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We also disclaim liability for any printing errors that may occur.*




1. Operation

The package consists of a wireless transmitter, WTE-1 and a wireless receiver WRR1. The ventilation unit can be wireless controlled from any point using the units.

 **WTE-1 is a 1-channel transmitter which can be linked to a receiver for wireless ON/OFF control.**

- The learning method permits simple programming/ deprogramming and eliminates interference that can occur with traditional mechanical programming.
- Red LED in the middle of the button indicates signal transmission.
- Select between wall mounting using screws or double-sided tape. The transmitter can of course also be held in the hand or be placed on a table.

 **WRR1 is a receiver for wireless control (ON/OFF) of connected load indoors.**

- The learning method permits simple programming/ deprogramming and eliminates interference that can occur with traditional mechanical programming.
- The radio frequency 433.92MHz permits a 30m range with a free line of sight, reduces the risk of interference and provides stable transmission.
- A red LED indicates signal reception and status in connection with programming and deprogramming by flashing at various frequencies.
- Timer function.

2. Installation



All electrical connections must be made by an expert.

Receiver WRR1 is to be connected to an earthed 230V outlet.

2.1. SELECTION OF INSTALLATION POINT

The transmitter (WTE-1) is positioned at any point and the receiver (WRR-1) is positioned alongside the ventilation unit. Note the following for best signal transmission:

- The ground absorbs radio waves. Install WTE-1 at least 1 metre above the floor. The higher the site, the better the signal transmission.
- Do not install any of the units on a thick wall, behind metal or reinforced concrete as this can reduce range.
- Make sure the WTE-1 is positioned within range of the linked receiver.
- WTE-1 should be installed at least 1 metre from conducting materials such as reinforced walls, aluminium windows/doors or cable to avoid a deterioration in range.
- Place WTE-1 and other units which use the same frequency at least 2 metres from each other to minimise the risk of interference.
- Do not connect live cables to the aerial. This causes disturbance to it (see Fig. 2). Do not remove the aerial's sheath either (see Fig. 1).
- Transmission between transmitter and receiver is affected by air humidity, point of installation, building construction, environment etc. The table below can be used as a guideline for negative effects of different materials.
- Two year battery replacement.
- Wireless thermometers/weather stations, garage openers, car alarms etc can interfere with the signal which is only sent when the pressure impulse is activated.
- NB! The forcing switch has two positions, only the on position generating a signal (see Fig. 7). The off position terminates the function.
- The units are factory-paired. Otherwise, they are paired after the first flash of the lamp. The time for this may vary somewhat. The units should be paired before the components are installed.

Material	Attenuation
Free line of sight	0
Glass/Paper/Wood/Plaster	5 - 20%
Fibreboard/Brick/Concrete	10 - 40%
Reinforced concrete	50 - 90%
Rain/Snow	60 - 100%
Metal	90 - 100%

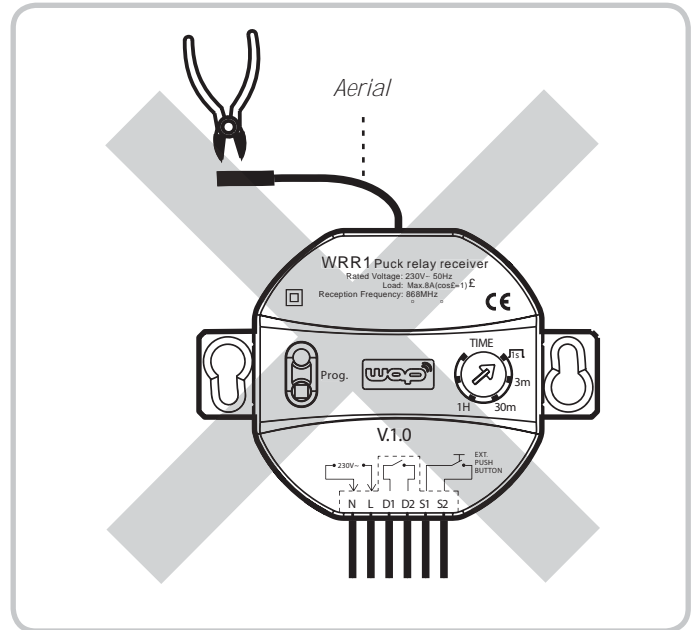


Fig. 1

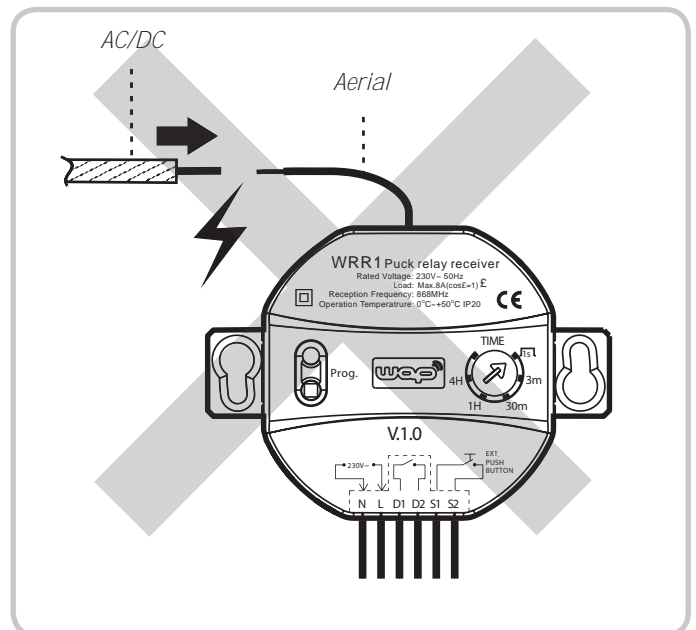


Fig. 2

2.2. INSTALLATION TRANSMITTER WTE-1



- WTE-1 is supplied with a CR2032 3V battery from the factory.
- Make sure all "Top/on" markings are placed upwards.

2.2.1. Installation set WTE-1

WTE-1 can be installed in different ways:

- on a wall with screws (see Fig. 5 and point 2.2.2)
- on a wall with double-sided tape (see Fig. 6).
- on a wallbox (see Fig. 7 and point 2.2.3)
- held in the hand (see Fig. 8).
- placed on a table (see Fig. 9).

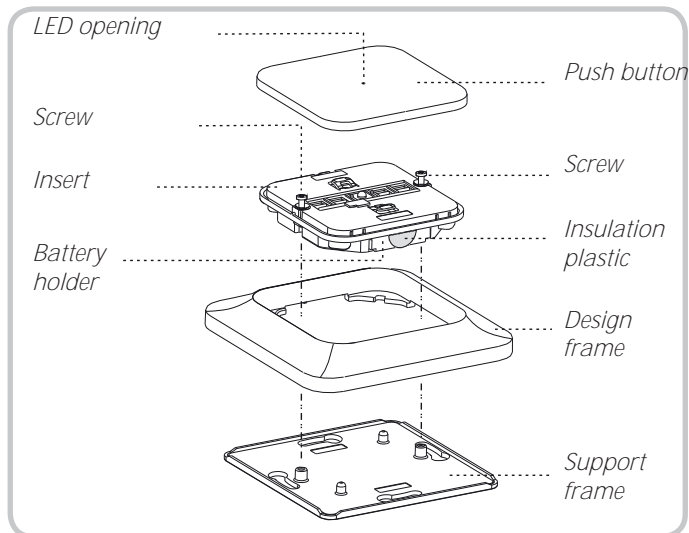


Fig. 3

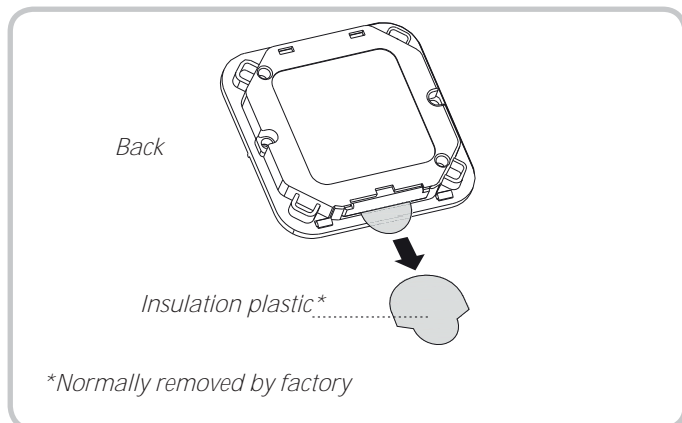


Fig. 4

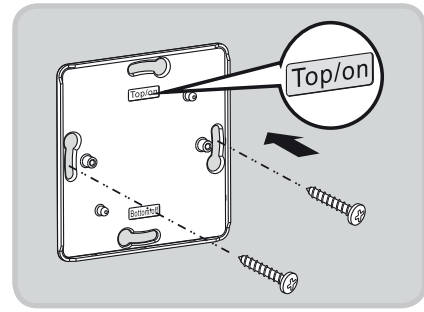


Fig. 5

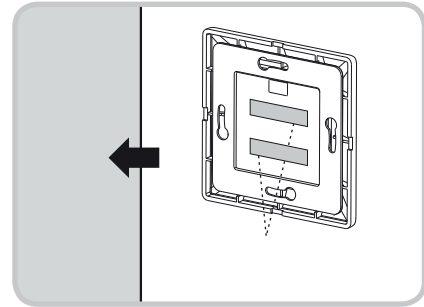


Fig. 6

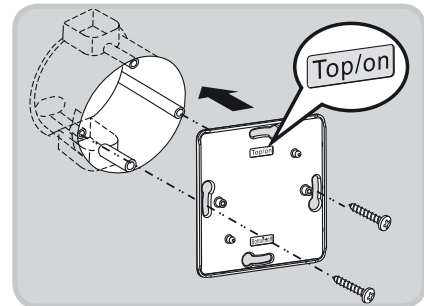


Fig. 7

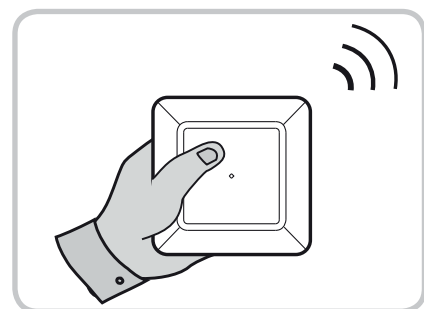


Fig. 8



Fig. 9

2.2.2. Installation on wall with screws

Install the support frame on the wall with screws (see Fig. 10).

- Place the insert in the design frame. Screw the insert in to place on the support frame (see Fig. 12).
- Press the push button in to place on the insert (see Fig. 13).

2.2.3. Installation of the wallbox

- Install the support frame on the box with screws (see Fig. 11).
- Place the insert in the design frame. Screw the insert in to place on the support frame (see Fig. 12).
- Press the push button in to place on the insert (see Fig. 13).

Installation on wall

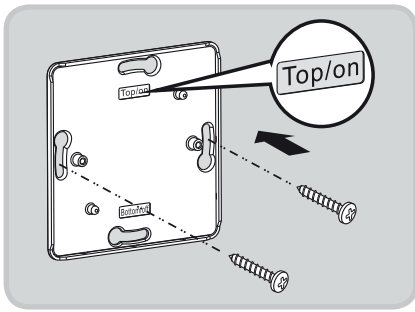


Fig. 10

Installation on wallbox

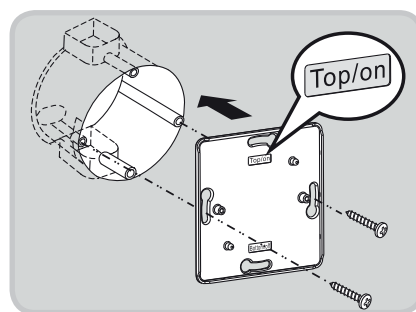


Fig. 11

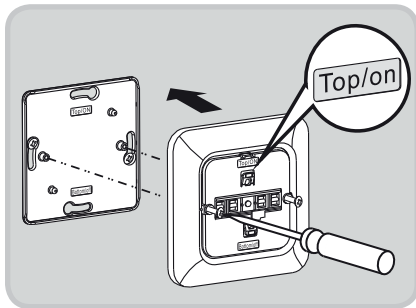


Fig. 12

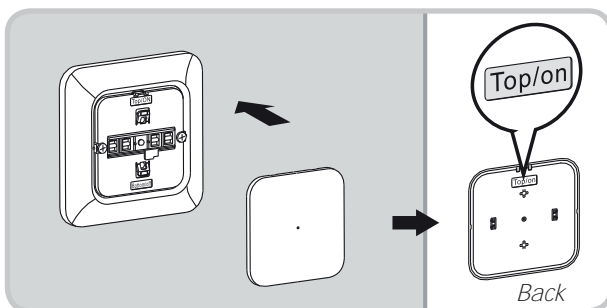


Fig. 13

2.3. INSTALLATION RECEIVER WRR1

The receiver is installed close to the unit (within 0.5 m) as the cable which is to be connected between the units is 1m long. Make sure that the box is placed on the outside of the air duct of the unit as these can reduce reception (see Fig. 14).

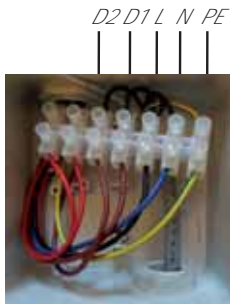
The four conductors on the receiver are numbered and connected to the central unit as shown in the table below.

Transmitter WTE-1 can have two different functions depending on the receiver's connection to the unit.

2.3.1. Increased ventilation (Forcing)

Used when you want increased ventilation, such as when showering. The capacity on both the supply and extract side is increased.

Connection



See the table below and figure 15 for connection

Cable	Circuit board	Conductor no.	Description
Black (4)	P1-10	N	N - 230 V
Black (3)	P1-9	L	L - 230 V
Yellow/green	P1-1	PE	Protective earth
Black (1)	P5-8	D2	Speed 3
Black (2)	P5-10	D1	G0

2.3.2. Increased supply air flow

Used when you want increased supply air flow, such as when lighting a stove. The capacity is increased on the supply air side and is reduced on the extract air side to compensate for the increased air requirement that a stove requires when in use.

See the table below and figure 16 for connection

Cable	Circuit board	Conductor no.	Description
Black (4)	P1-10	N	N - 230 V
Black (3)	P1-9	L	L - 230 V
Yellow/green	P1-1	PE	Protective earth
Black (1)	P5-9	D2	Speed 4
Black (2)	P5-10	D1	G0

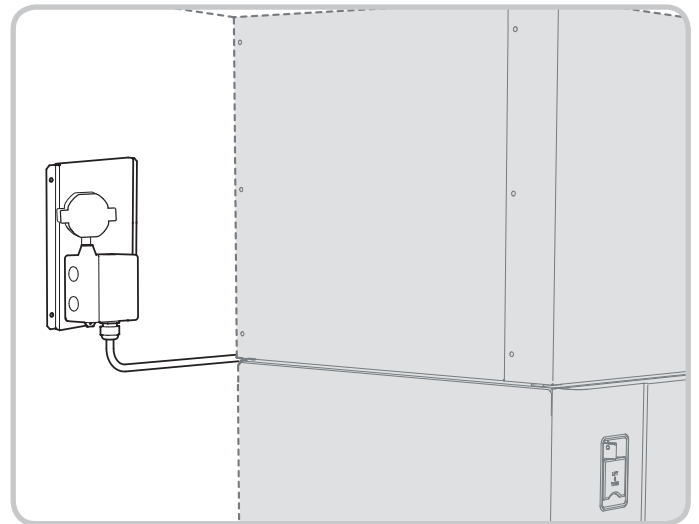


Fig. 14

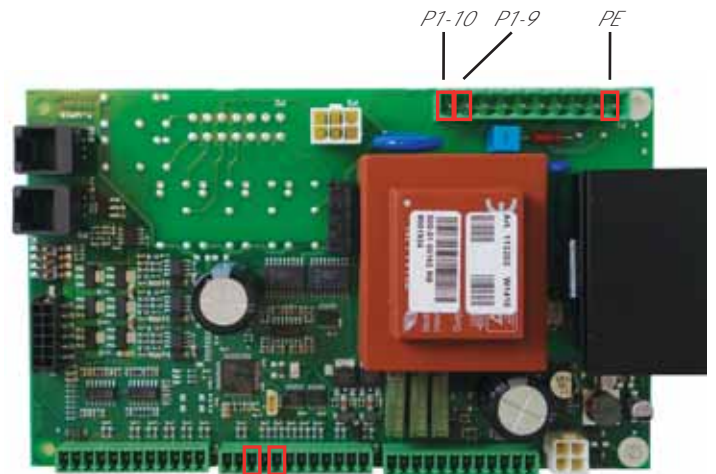


Fig. 15

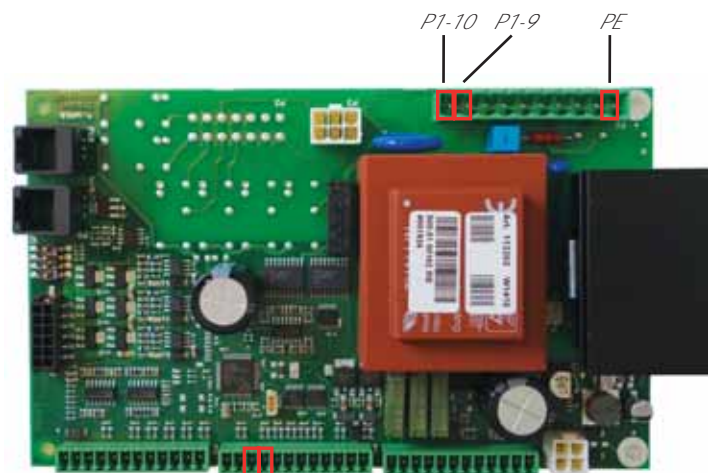


Fig. 16

2.4. PROGRAMMING



NB! The units are factory-paired.

The receiver must undergo a learning procedure to identify the transmitter's ID number and thus establish a link. Each transmitter is assigned an individual ID number at the factory. The receiver must learn this to be able to perform the command sent by the transmitter.

The WTE-1 transmitter is used as an example (see Fig. 17).

- Make sure that the cables are properly connected.
- Place the receiver and transmitter 0.5 - 5m from each other to ensure efficient programming.
- Max. 20 learned ID numbers can be stored in WRR1. If WRR1 reaches 20 stored ID numbers and a new programming is carried out, then the learned ID stored first is replaced.
- Learning mode lasts for approximately 1 min. Alternatively, it can be interrupted by briefly (< 1 sec.) pressing the learning button.

2.4.1. Learning

Steps in the learning procedure:

- Press the learning button for approximately 2 seconds. The LED flashes slowly to indicate learning mode (see Fig. 18).
- Press the desired button (upper or lower section) until the LED is permanently lit.
- When the LED is permanently on, learning has been successful (see Fig. 19).

See 2.4.2 to interrupt the learning mode.



If learning needs to be repeated, existing links must be deleted. One link or all can be deleted.

Deletion of a link

- Press the learning button for approximately 2 seconds to enter learning mode.
- The LED flashes slowly to indicate learning mode (see Fig. 20).
- Press the desired button (top or bottom part) until the LED flashes fast.
- The LED flashes fast to indicate deletion has taken place (see Fig. 21).

Deletion of all links

- Press the learning button for more than 5 seconds.
- The LED flashes slowly for approximately 3 sec
- The LED then flashes fast, indicating that all links have been deleted (see Fig. 22).

See 2.4.2 to interrupt the learning mode.

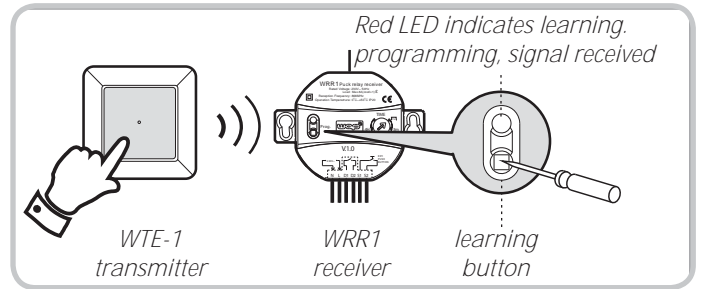


Fig. 17

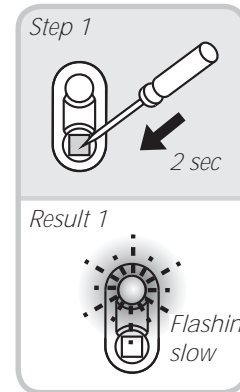


Fig. 18

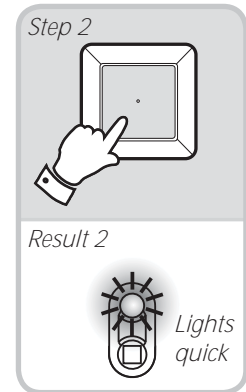


Fig. 19

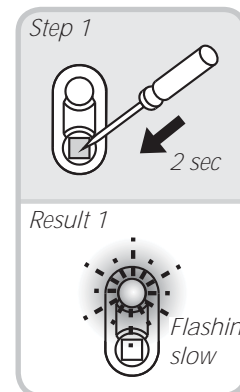


Fig. 20

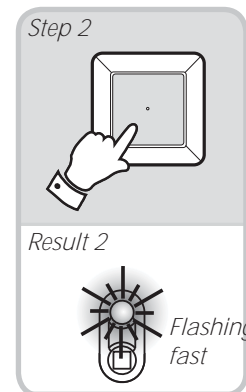


Fig. 21

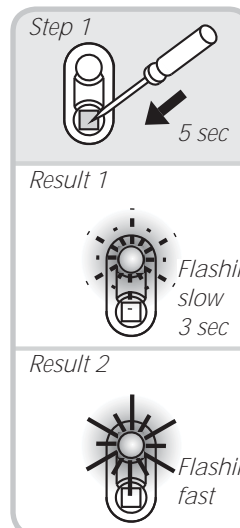


Fig. 22

(Programming contd.)

2.4.2. Interrupting learning mode

Automatic:

Learning mode is interrupted automatically after 1 minute, regardless of whether anything has been learned. The LED goes out (see Fig. 23).

Manual:

Learning mode is interrupted by briefly pressing the learning button (< 1 sec.). The LED goes out (see Fig. 24).

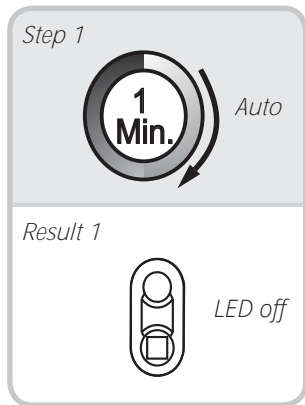


Fig. 23

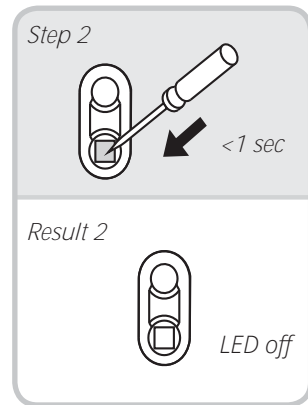


Fig. 24

3. Use

Follow point *2.4. PROGRAMMING* before use.



Red LED in the middle of the push button lights when WTE-1 transmits. Where the button is pressed for longer, the LED lights for max. 10 seconds. (see Fig. 25).

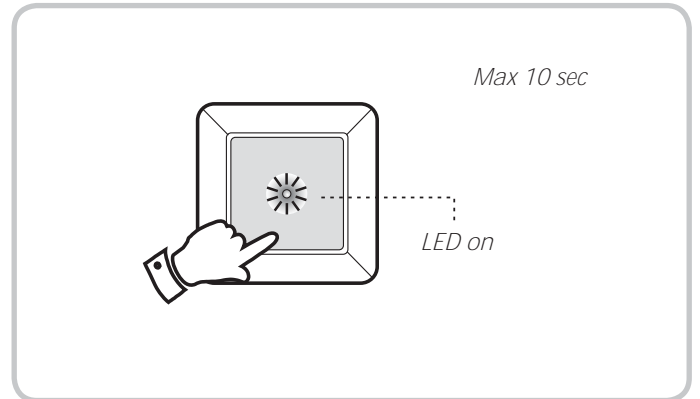


Fig. 25

ON function

Short press on the push button's upper section (1 sec) activates the selected function on the ventilation unit (see Fig. 26).

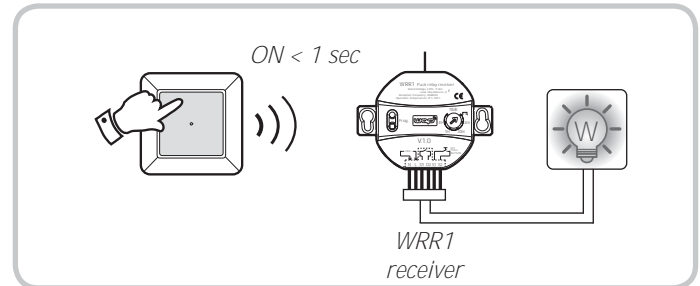


Fig. 26

OFF function

Short press on the push button's lower section (1 sec) stops the selected function on the ventilation unit (see Fig. 27).

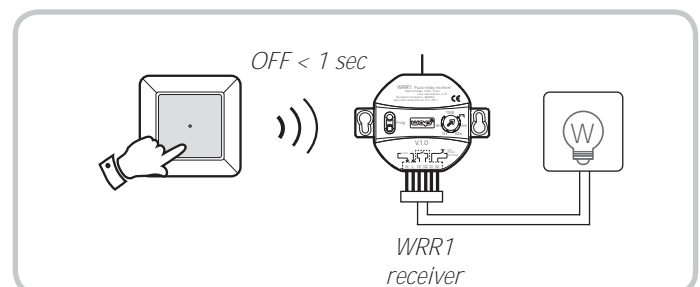


Fig. 27

4. Timer function



Connected load can be switched ON for the set time by pressing the upper part of the connected push button. One press on the push button's lower section will turn OFF the load.



The TIME dial must always be on a marked value. It is not to be set at a value between marked values.

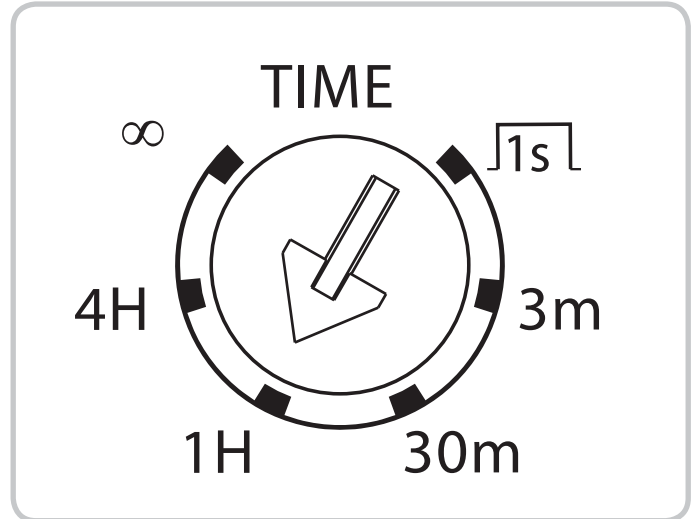


Fig. 28

WRR1 has 6 timer times: 1S. / 3m / 30m / 1H / 4H / (see Fig. 28 and 29).

TIME is set in position 1H from the factory.

The timer function is triggered through WRR1 receiving a TILL signal from the linked transmitter.

TIME 1s

Connected load is switched on for 1 sec when the receiver receives the ON signal from a linked transmitter. The load is then switched off.

TIME 3m

Connected load is switched on for 3 min when the receiver receives the ON signal from the linked transmitter. The load is then switched off.

TIME 30m

TIME Selected load is switched on for 30 min when the receiver receives the ON signal from the linked transmitter. The load is then switched off.

TIME 1H

TIME Selected load is switched on for 1 h when the receiver receives the ON signal from the linked transmitter. The load is then switched off.

TIME 4H

TIME Selected load is switched on for 4 h when the receiver receives the ON signal from the linked transmitter. The load is then switched off.

TIME (INFINITE)

TIME The connected load is switched on when the receiver receives a ON signal from the linked transmitter and is switched off when it receives the OFF signal.

The load can be switched off using the connected push button before the timer time expires.

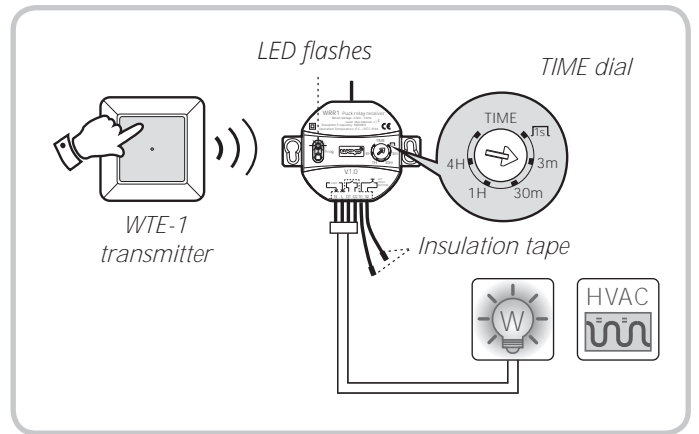


Fig. 29

5. Battery replacement



WTE-1 is powered by a 3V (CR2032) battery.

Power consumption depends on the number of activations and the temperature of the surroundings. Fewer activations and lower temperatures give lower power consumption. Remove the batteries when the charge is insufficient or WTE-1 is not to be used for a longer period of time.

- Prize loose the push button and remove the insert from the support frame.
- Pull out the battery holder with a screwdriver (see Fig. 30).
- Then replace the battery (model CR2032, 3V). Take care with polarity (see Fig. 31).
- Press the battery holder back into its slot.

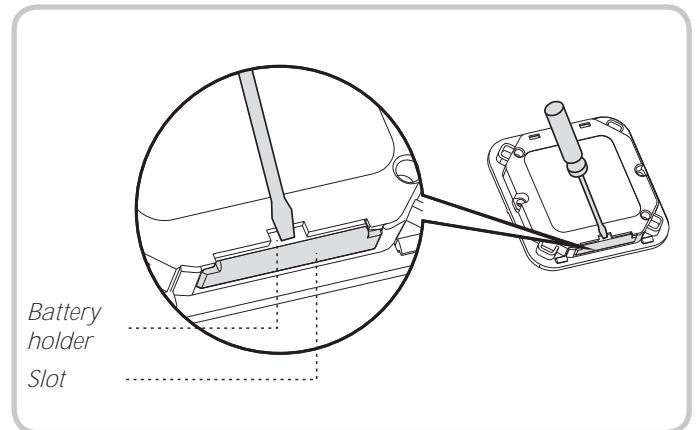


Fig. 30

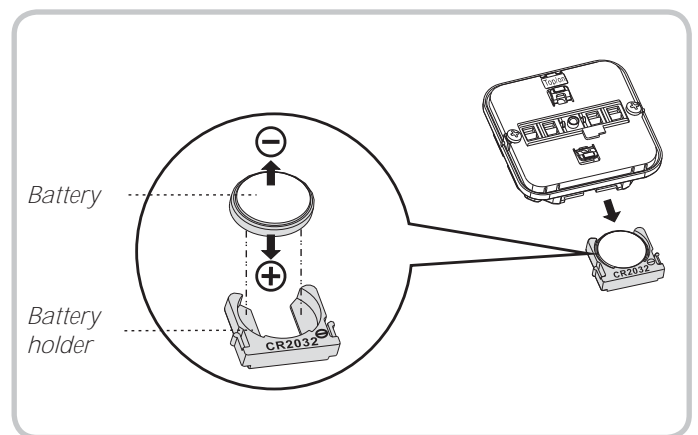


Fig. 31

6. Dimensioned drawing

6.1. TRANSMITTER WTE-1

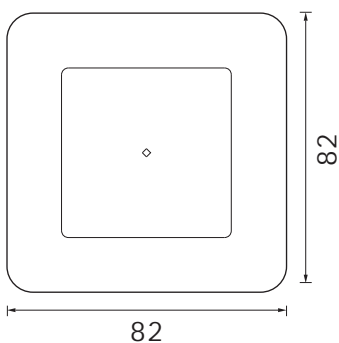


Fig. 32

6.2. RECEIVER WRR1

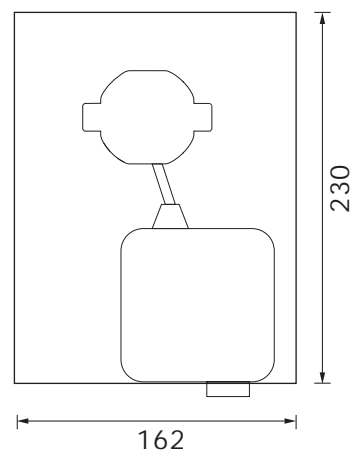


Fig. 33

7. Technical data

7.1. TRANSMITTER WTE-1

Rated voltage	DC 3V(CR 2032) Battery
Range	Approximately 30m (with free line of sight)
Radio frequency	433.92MHz
Programming	Learning
Channels	1 channel
Compatible receivers	WRR1 (puck relay) WDR1 (puck dimmer)
Operating temperature	0 C to +45 C
Enclosure protection class	IP20
Indication	Red LED

7.2. RECEIVER WRR1

Rated voltage	230V AC, 50Hz
Load	Max. 8A(cos=1) For lighting type: Incandescent: max. 1500 W 230 V Halogen: max. 700W Low-voltage halogen: max. 400 VA Fluorescent tube (uncompensated): max. 400 VA Compact fluorescent tube PL: max. 300 VA HVAC: max. 250 V AC or 30 V DC Motor: max. 75W
Timer	1sec / 3min / 30min /1h / 4h / INFINITE
Range	Approximately 30m (with free line of sight)
Radio frequency	433.92MHz
Storage of learned items	Max. 20
Operating temperature	0 C to +50 C
Enclosure protection class	IP40

8. Troubleshooting

The ventilation unit is not activated	<ol style="list-style-type: none"> 230 V cables are not connected or are incorrectly connected. Connection of the load's cables is incorrect or the load is faulty. 	<ol style="list-style-type: none"> Make sure that the receiver has a power supply and that the cables are correctly connected Make sure that the load's cables are correctly connected and the load is working.
WRR1 does not react to a linked transmitter	<ol style="list-style-type: none"> The push button on the linked transmitter is pressed down for a short space of time. The range has been exceeded. Learning failed. Learning has been deleted or replaced. Serious obstacle between transmitter and receiver. Interference. The transmitter battery is flat. 	<ol style="list-style-type: none"> Press the push button for 1-2 sec. Adjust the distance between the WRR1 and the linked transmitter. Supplement with a signal amplifier where required. Carry out the learning procedure again. Delete all learned items and repeat the learning procedure. Remove the obstacle or choose a different site. a. Remove object causing interference. b. Choose a different site. Replace battery
Short range	<ol style="list-style-type: none"> The transmitter battery is flat. Serious obstacle between transmitter and receiver. Interference. 	<ol style="list-style-type: none"> Replace battery. Remove the obstacle or choose a different site. a. Removed object causing interference. b. Choose a different site.
Timer function turns off after non-selected time	The TIME knob is between two values.	Adjust the knob.



Flexit AS, Televeien 15, N-1870 Ørje
www.flexit.no