

Flexit

ART. NO. 116676

EN

INSTALLATION INSTRUCTIONS

Wireless pressure switch, 230 V

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

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1. Operation

The package consists of a pressure switch with a wireless transmitter and a wireless receiver. The units can be used to control the ventilation unit wirelessly from the extractor hood.

Capacity is increased on the supply air side and reduced from the extract air side to compensate for the increased air flow that an extractor fan entails when in use.

- The learning method permits simple programming/deprogramming and eliminates interference that can occur with traditional mechanical programming.
- The red LED on the unit indicates signal transmission.
- The radio frequency 433.92 MHz permits a 30 m 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

2.1. INSTALLATION SITE

The pressure switch and the wireless transmitter should be sited within one metre of the cooker hood's extract air duct, as shown in Fig. 1.

- The ground absorbs radio waves. Install the transmitter at least 1 metre above the floor. The higher the site, the better the signal transmission.
- Ensure that the transmitter is sited within range of the linked receiver(s).
- The transmitter should be installed at least 1 metre from conductive material such as reinforced walls, aluminium windows/doors or cables to avoid reduction in range.
- Do not install it on a thick wall, behind metal or reinforced concrete, as the range may be reduced.
- Site the transmitter and other units that use the same frequency at least 2 metres apart to minimise the risk of interference.
- Transmission between the transmitter and the receiver is affected by air humidity, the installation site, the structure of the building, the environment, etc. The table on page 5 may be used as a guide to the negative impacts of various materials.
- Wireless thermometers/weather stations, garage openers, car alarms, etc. can disturb the signal, which is only transmitted when a pressure impulse is executed.
- 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.



All electrical connections must be made by an expert.

Both the transmitter and the receiver must be connected to earthed 230 V outlets.

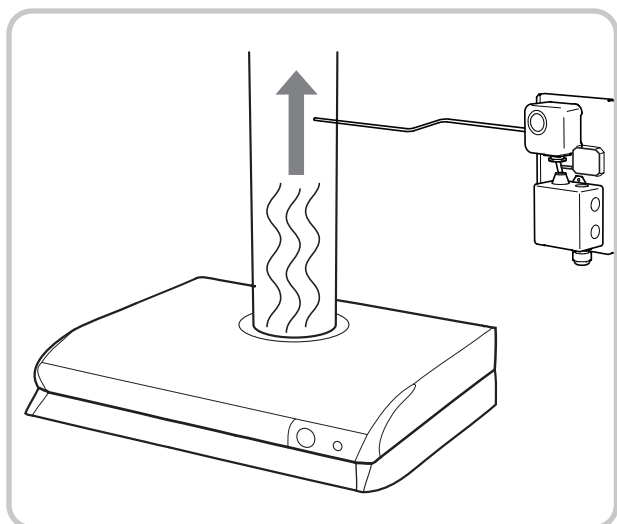


Fig. 1

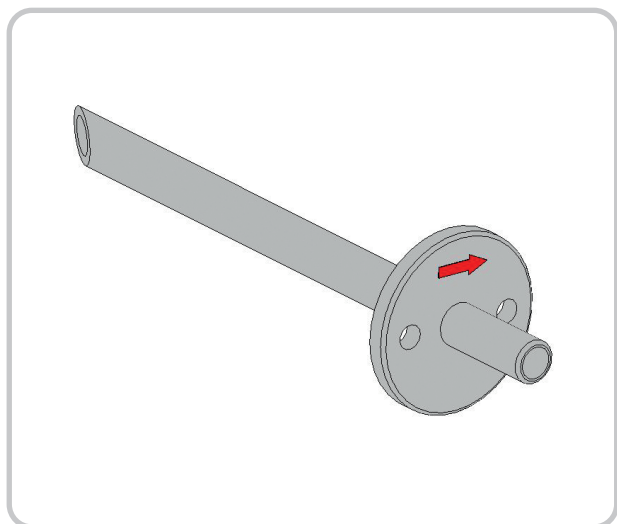


Fig. 2

2.2. INSTALLATION OF THE PRESSURE SWITCH AND TRANSMITTER

Attach the unit to the wall with the enclosed screws. Drill a Ø8 mm hole in the duct and attach the pressure output so that the arrow on the output is in the direction of flow in the duct, as shown in Fig. 1 and Fig. 2. Then connect the hose between the pressure output and the pressure switch's connection, as shown in Fig. 3. This point is important to ensure correct operation. The pressure switch's minus (-) connection must not be used. For adjustment of the pressure switch, see section 2.3.

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%

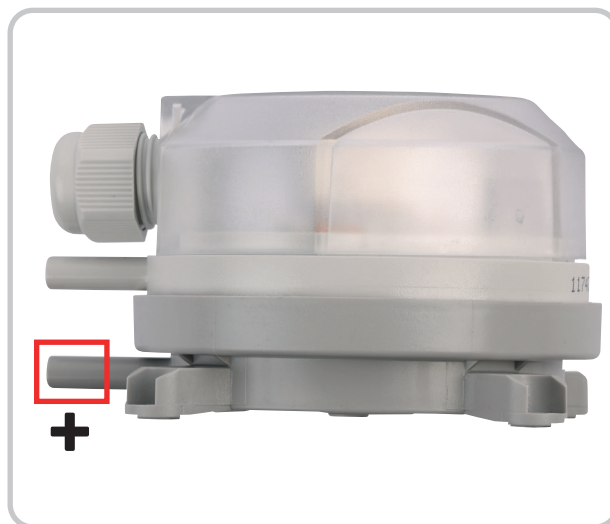


Fig. 3

2.3. ADJUSTMENT

The pressure switch's initial setting should be a value that ensures operation, Fig. 3. Undesired activation may be the result of a value that is too low. If you want the switch to be activated only when the extractor fan is running at high capacity, the value can be adjusted upwards. In such case, remove the protective cover on the pressure guard and turn the knob.

2.4. INSTALLATION OF THE RECEIVER

The receiver should be installed near the unit (within approximately 0.5 m) as the cable that must be connected between the units is 1 m long.

Ensure that the box is sited on the outside of the air ducts to the unit as they may reduce signal reception (see Fig. 4).

Connect the supplied cable between the central unit and the receiver as shown on the table below.

See the table below and Fig. 5 for connection.

Cable	Circuit board	Conductor no.	Description
Black (4)	P1-10	Blue	N - 230 V
Black (3)	P1-9	Brown	L - 230 V
Black (1)	P5-9	Red	Speed 4
Black (2)	P5-10	Red	G0

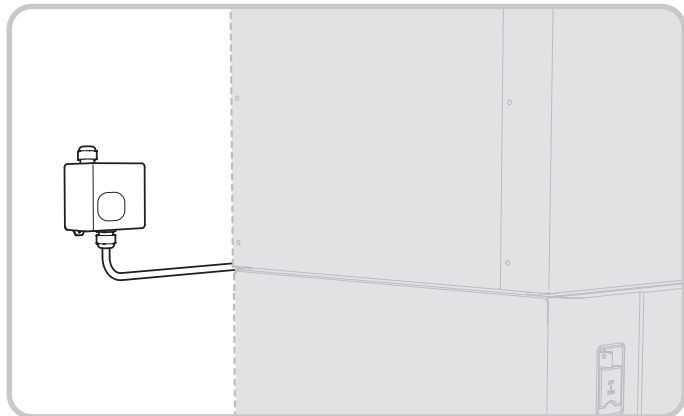


Fig. 4

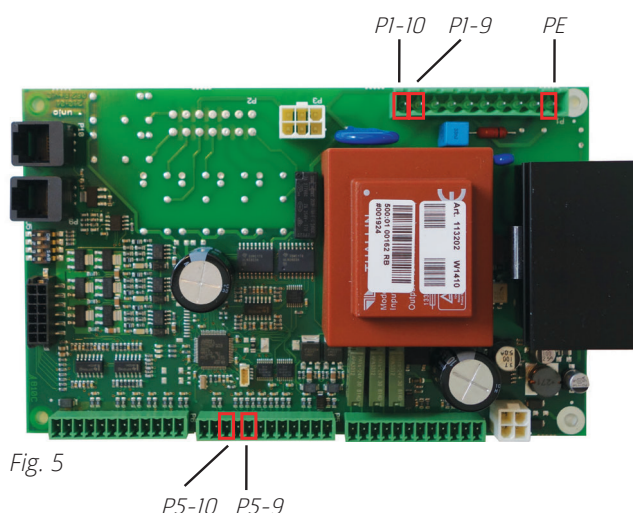


Fig. 5

2.5. SETTINGS



All settings are factory settings and must not be changed. Use this information only if correct operation is not obtained.

2.5.1. Timer function



The TIME knob must always be set to 4H as a safety function (See Fig. 6).

When the extractor fan starts, the receiver receives a start signal that causes the ventilation unit to increase the supply air flow. When the extractor fan stops, the ventilation unit returns to the operating mode previously selected.

The timer function means that the ventilation unit cannot enter operating mode with increased air flow for more than 4 hours.

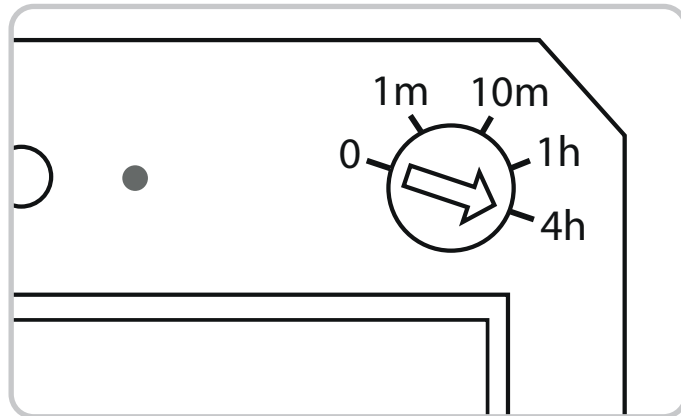


Fig. 6

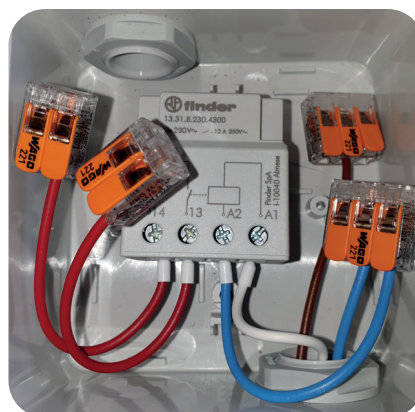


Fig. 7

2.6. 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.

- Make sure that the cables are properly connected.
- Place the receiver and transmitter 0.5 - 5m from each other to ensure efficient programming.
- Max. 32 learned ID numbers can be stored in the receiver. If the receiver reaches 32 stored ID numbers and a new programming is carried out, then the learned ID stored first is replaced.

2.6.1. Learning

Steps in the learning procedure:

- Press the learning button for approximately 1 second. The LED flashes slowly to indicate learning mode (see Fig. 9).
- Press the transmitters ON button within 12 seconds (see Fig. 8).
- The LED flashes quickly to indicate that learning has been successful (see Fig. 9).



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

2.6.2. Deletion of a link

- Press the learning button for approximately 1 second to enter learning mode.
- The LED flashes slowly to indicate learning mode (see Fig. 9).
- Press the OFF button (bottom part) within 12 seconds (see Fig. 8).
- The LED flashes fast to indicate deletion has taken place (see Fig. 9).

2.6.3. Deletion of all links

- Press the learning button for more than 6 seconds.
- The LED flashes slowly for approximately 3 seconds (see Fig. 9).
- Release the learning button and do a quick press. All the links are now deleted (see Fig. 9).

2.6.4. 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. 9).

Manual:

Learning mode is interrupted by briefly pressing the learning button (< 1 sec.). The LED goes out (see Fig. 9).

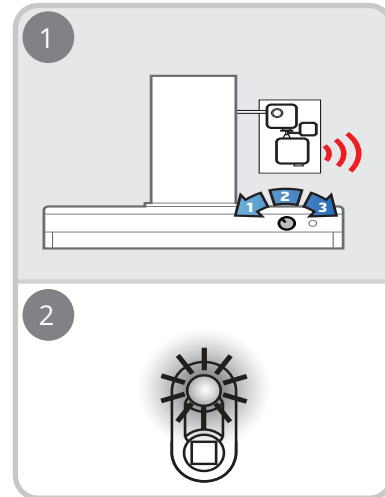


Fig. 8

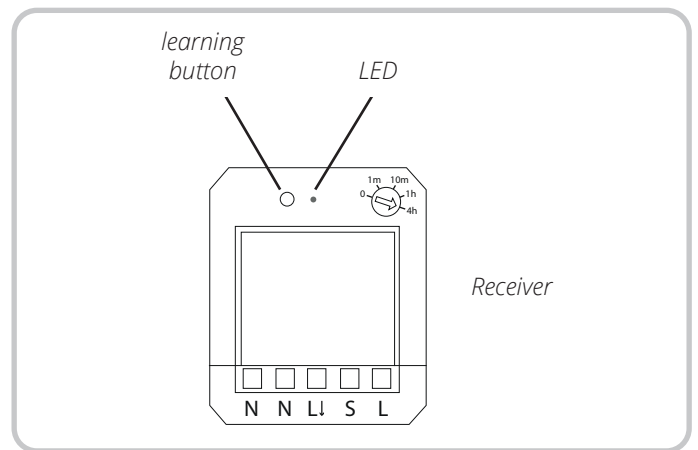


Fig. 9

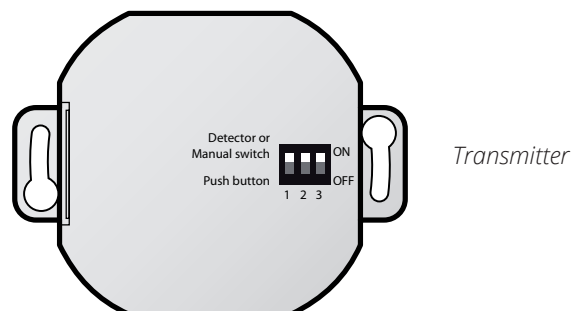


Fig. 10

3. Use

The pressure switch is always activated and will transmit signals to the ventilation unit as soon as the extractor fan is switched on (see Fig. 11).

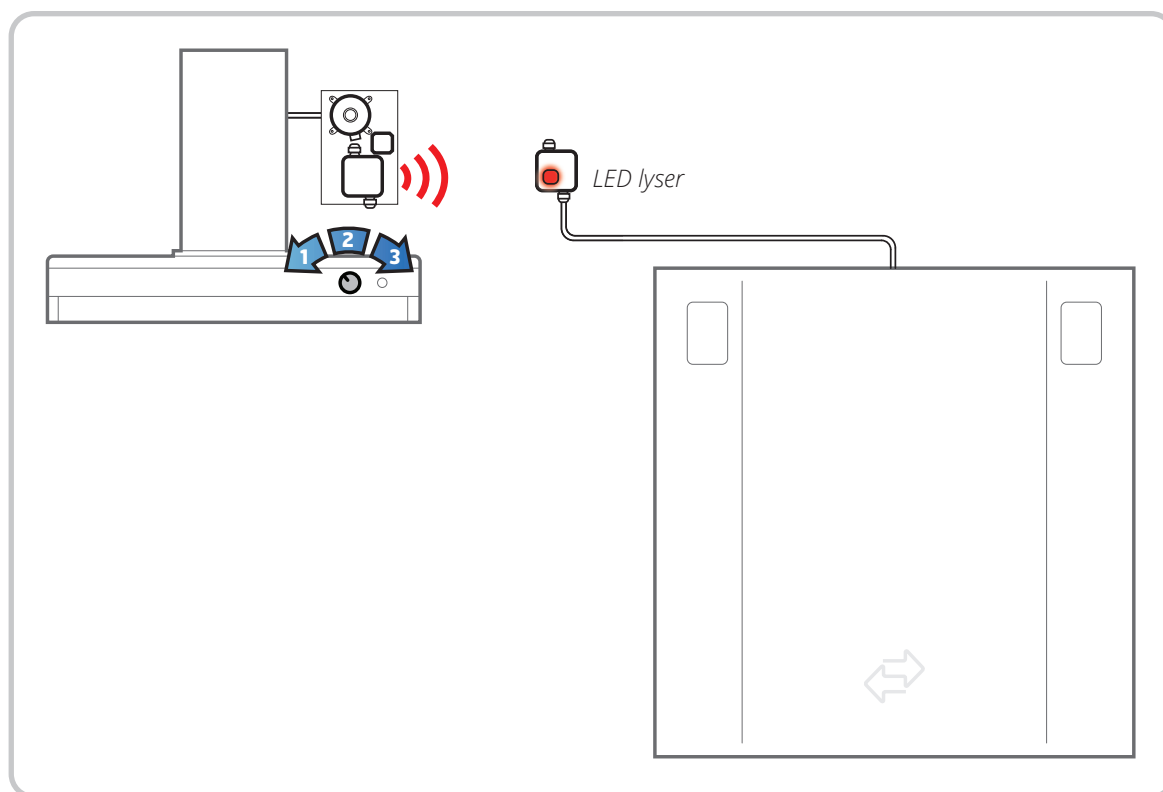


Fig. 11

4. Dimensioned drawing

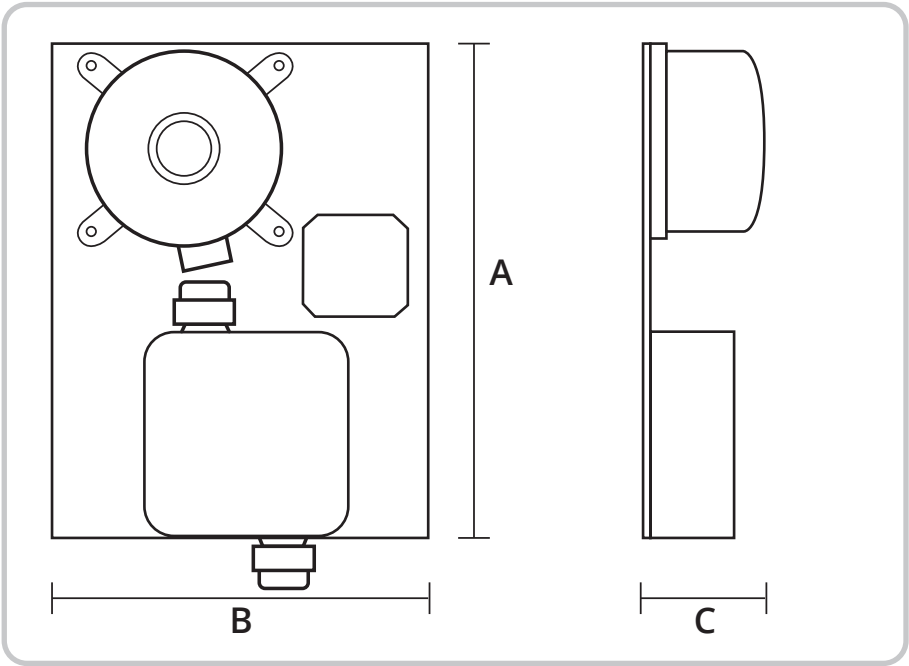


Fig. 12

Height (A)	230 mm
Width (B)	162 mm
Depth	69 mm

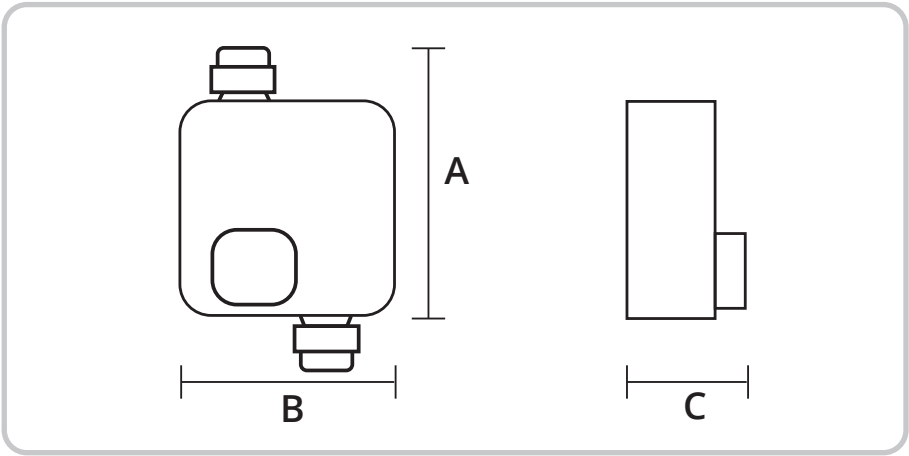


Fig. 13

Height (A)	160 mm
Width (B)	113 mm
Depth	71 mm

5. Technical data

5.1. TRANSMITTER

Rated voltage	230 V AC ~ 50 Hz
Range	Approximately 30 m (with free line of sight)
Radio frequency	433.92 MHz
Programming	Learning
Channels	2 channels
Compatible receivers	WRR1 (puck relay) WDR1 (puck dimmer)
Operating temperature	0° C to +45° C
Enclosure protection class	IP20
Indication	Red LED (concealed)

5.2. RECEIVER

Rated voltage	230 V AC ~ 50 Hz
Load	Max. 2 300 W (cos=1)
Timer	0 sek / 1 min / 10 min / 1 h / 4 h
Range	Approximately 30 m (with free line of sight)
Radio frequency	433.92MHz
Storage of learned items	Max. 32
Operating temperature	0° C to +30° C
Enclosure protection class	IP20

6. Troubleshooting

Problem	Possible cause	Solution
The ventilation unit is not activated	1. 230 V cables are not connected or are incorrectly connected.	1. Ensure that the receiver has a power supply and that the cables are correctly connected.
	2. Connection of the load's cables is incorrect or the load is faulty.	2. Ensure that the load's cables are correctly connected and the load is working.
The receiver does not react to linked transmitter	1. The range has been exceeded.	1. Adjust the distance between the receiver and the linked transmitter. Possibly add a signal amplifier.
	2. Learning failed.	2. Repeat the learning procedure.
	3. Learning has been deleted or replaced.	3. Delete all learned items and repeat the learning procedure.
	4. Serious obstacle between transmitter and receiver.	4. Remove the obstacle or choose a different site.
	5. Interference.	5. a. Remove the object causing interference. b. Choose a different site.
	6. Transmitter's mains voltage.	6. Check the mains voltage.
Short range	1. Transmitter's mains voltage.	1. Check the mains voltage.
	2. Serious obstacle between transmitter and receiver.	2. Remove the obstacle or choose a different site.
	3. Interference.	3. a. Remove the object causing interference. b. Choose a different site.
The timer function switches off after an unwanted time	The TIME knob is between two values.	Adjust the knob.



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