Xvent s.r.o.
Poděbradská 289
09 Pardubice-Trnová

QUICK INSTRUCTIONS FOR USE AND INSTALLATION

WifiModule converter

The quick guide guides you through the quick installation of the product, but in no way replaces the complete full guide. The complete user manual is available in the documents on our website www.xvent.cz or you can download it using the QR code.

If you are installing the converter on the wall indoors, check that there are no electrical or other lines (e.g. gas, water, etc.) at the installation location that you could disturb during installation. If you install the converter freely in the space (by placing it), check that the wifi signal will not block other wireless signals that occur in the installation space.

Make sure that installation of converter does not break statics of the building and meets all legislative safety requirements.

Installation and connection of the converter can only be performed by a person with knowledge of computer technology and web browsers

1) Using.the converter

The WifiModule converter is used to convert signals between the Modbus RTU communication protocol and the Wifi wireless network called the WifiModule (hereinafter referred to as the converter). The WifiModule is intended for use with the Xhouse and Xflat central recuperation units (hereinafter referred to as units) with subsequent control using a web application (hereinafter referred to as APP). Control is possible from any device that has access to the Internet and uses a web browser. Ideally, use a device equipped with a camera - easier pairing of the converter with the unit. The APP web application enables manual control (same as on the control panel of the units) and time control (using preset calendar modes). The choice of language in which the APP will communicate with you is selected automatically according to the geolocation of your device from which you control the unit. If no language is specified for your geolocation, the application communicates in English. The converter is intended for installation on the wall or as a stand-alone unit. The converter is designed for continuous operation. The converter is intended for indoor, covered and dry spaces with room temperature from +5 °C to +30 °C and with a maximum relative humidity of 70% non-condensing. The maximum working altitude of the unit is 2000 m above sea level.

To read the QR code, use a smart device (mobile phone, tablet, etc.) that is equipped with this technology.

Check that the Wi-Fi signal will not be blocked by any obstacle that could cause the converter's connection to the internet modem (router) to malfunction.

Electrical safety before installing the converter

Check that the electrical connection point (socket) meets the unit's power supply requirements (voltage, current, etc.) listed on the unit's nameplate.

2) Technical parameters

Power supply	Input	230V / 0,3A / 50/60Hz
	Output	5VDC / 0,55A
Transmission frequency		2.4 GHz (the device conforms to standards IEEE802.11/b/g/n)
Output	Serial interface	RS485 (modbus RTU communication protocol)

Prohibited use of WifiModule converter

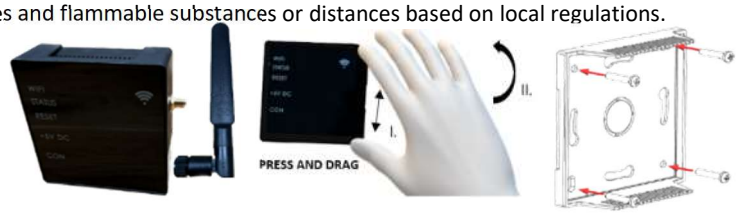
In an environment with an increased occurrence or risk of explosion, flammable substances and increased dust or air containing other harmful impurities or in an environment with a greater occurrence of condensing moisture such as e.g.: bathrooms, swimming pools, saunas, etc., for damage caused by improper use (with another unit , than is allowed), neither the manufacturer nor the supplier is liable. The risk is borne by the user.

3) Installing the WifiModule converter

- Minimum clearance distances of 100mm from all building structures and flammable substances or distances based on local regulations.

3a) Mounting the converter on the wall

- screw the included wifi antenna onto the converter
- open the converter box
- measure or drill the mounting holes on the back of the converter with 3 x 13 mm self-tapping screws with a half-round head (not included in the delivery) into the prepared holes in the box
- put on the front part of the converter for subsequent adjustments



3b) Installation of the converter freely in the space

- You can also place the converter freely on a fixed base. Ensure its stable location and the possibility of access for control and possible service

3c) Installation of the converter freely in the space

- The converter can be connected to the unit using a flat communication cable (hereinafter referred to as the communication cable) with a length of approx. 0.95 m (included in the package). If necessary, the length of the communication cable can be up to 20 m (not included in delivery or accessories). The communication cable must be equipped with RJ45 8/8 connectors. RJ connectors must be wired as straight (both connectors are wired the same)

4) Connecting the WifiModule converter with the recovery unit – Xflat, Xhouse

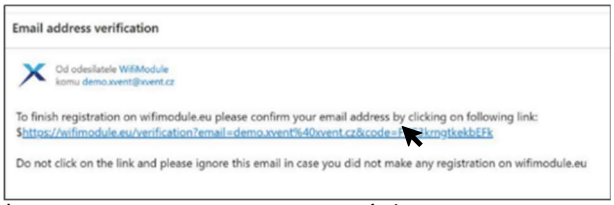
- The converter is connected to the recuperation unit using a web application on the website www.wifimodule.eu

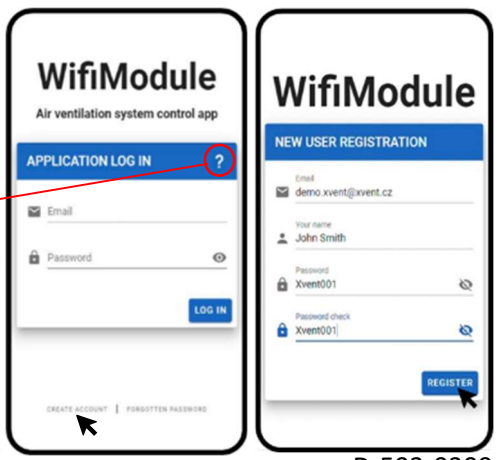
4a) Creating an account in the web application

- enter the web address www.wifimodule.eu into the web browser of your device, from which you will control the unit using the application

- To properly set up the application, connect with the unit and pair with the unit, please first refer to the installation video in the application help

- Create a new account
- fill in the registration data, confirm
- After successful registration, confirm the link in the verification email





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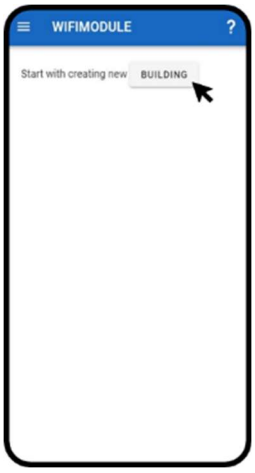
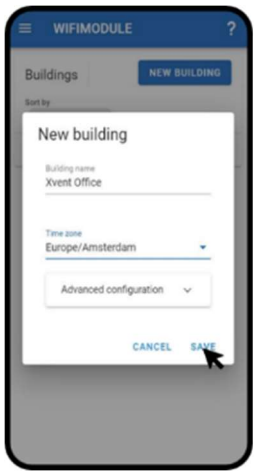
4b) Initial application settings

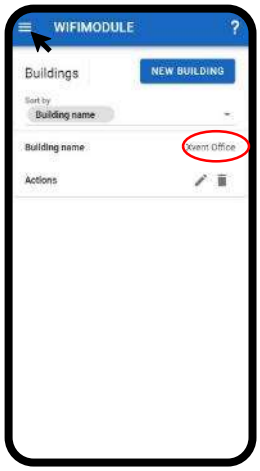
1) Log in to the web application according to your registration data



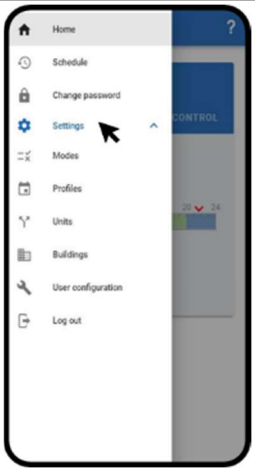
2) Create a building, apartment and fill in the details of the unit



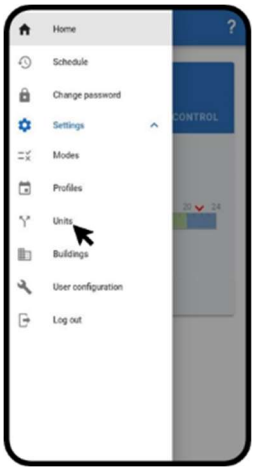
3) You have successfully named and established the building Open the menu



4) Settings



5) Units



6) New unit

7) Allow the device to access the camera Name and select the unit

8) Use the camera on your device to scan the QR-code located on the side of the converter
- Save the settings

- the application will automatically load:
  - Serial number – SN
  - Key – KEY

In case of failure to read the QR code with the camera or if your device is not equipped with a camera, enter the data manually in the application:
Serial number – SN
Communication key - KEY

9) Place the converter in the installation position in which it will be operated, for example: mounting on the rear part of the converter located on the wall

10) If you don't have the wifi antenna screwed on - screw it on

11) Connect the control of the unit (controller - connector labeled BMS-RS485) with the attached flat communication cable to the converter (CON).

12) Plug the converter power supply connector into the converter (+5V DC) and the mains adapter (230V).

13) The WIFI and STATUS lights on the converter will start flashing.
The transmitter is ready for pairing.

If the converter signals something else using the lights - press the RESET button for approx. 5 seconds. This will enter pairing mode

The following procedure assumes that the points from the previous chapters have been met. If you have skipped one, you must complete it, otherwise you cannot continue with the next procedure.

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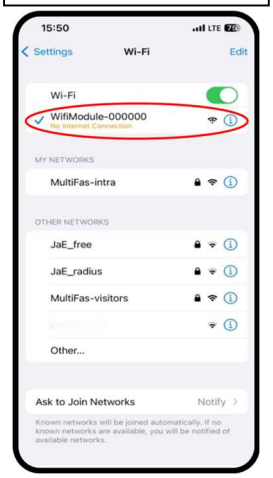
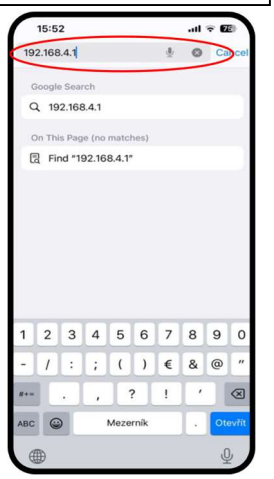
14) On your device, find a wifi network with a name that corresponds to the serial number of your WifiModule - SN: 000000

15) Connect to this wifi network - the network is without connection and internet



16) Enter the web address "192.168.4.1" in your web browser
- open it



17) Find your wifi network to which the unit will be connected

18) Enter the password for your network that the unit will be connected to

19) Confirm the setting

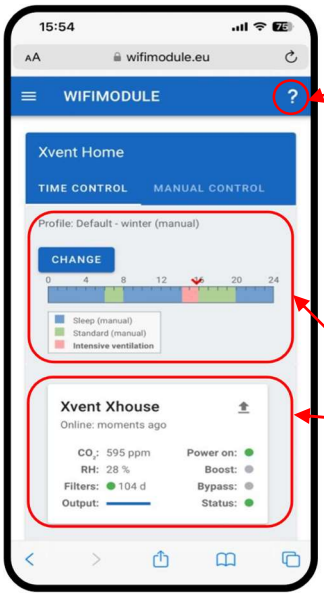
20) Close the web page for setting the wifi network

21) On the WifiModule, the green indicator light - Status - will light up permanently

You can now control the unit using the WifiModule web APP

5) WifiModule web application control

- after completing the settings, open the web application – „www.wifimodule.eu“. Log in to your created account.
- check the loading of your installed unit



To properly control the application and use all its functionalities, first look at the video in the application help.

- The maximum number of modes that can be entered in the weekly mode is 150. You are informed by a warning if the maximum number of modes is exceeded, and at the same time the correct function of the APP time modes cannot be guaranteed.
- The refresh rate of the converter is approx. 30 seconds, i.e. that the unit's response to a change can take up to 30 seconds.
- All APP logics are subordinate to the unit control logic, e.g.: antifreeze logic, BOOST mode running time, night cooling-bypass, etc.

- The home page shows:
  - Connected unit with the currently set operating mode
  - Operating status of the connected unit

TIP

For faster access to the control of the unit, we recommend creating a shortcut on the desktop of your device from which you will control the unit.

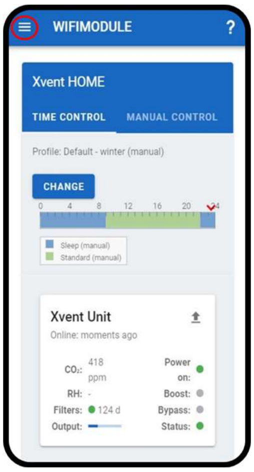
5a) Description of basic screen elements

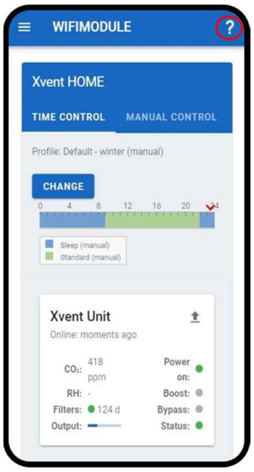
1) Application menu - MENU
- setting of APP functionality

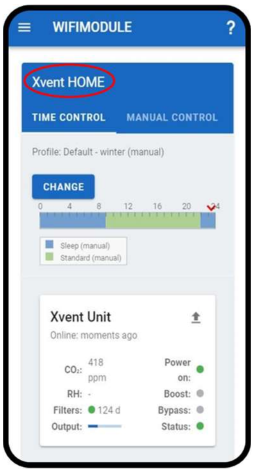
2) Help with a link to the video manual

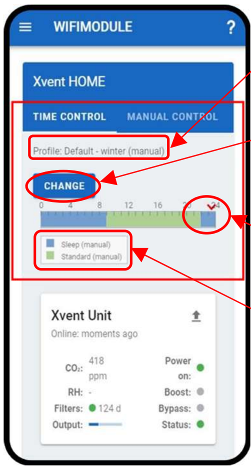
3) Name of the building - the room where the unit is located

4) Time control of the unit - selected time mode, ongoing mode.





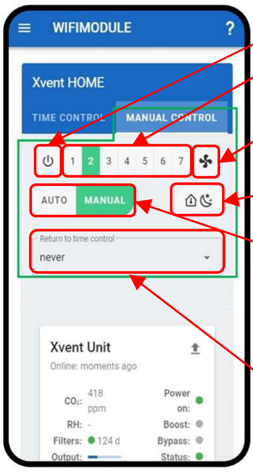




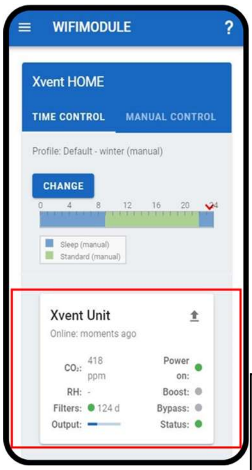
- Selected time mode
- Changing time modes from preset time calendars – mode
- A timeline with the current time
- Display of individual modes in the selected time mode. Highlighted Time Mode - In progress.

5) Manual mode of the unit – the same functionality as on the unit panel with the possibility of running time of the selected functionality

6) Displaying the real state of the unit

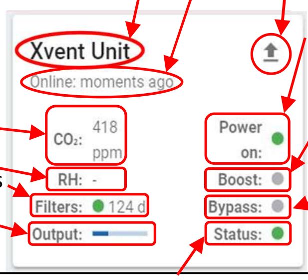


- ON/OFF unit
- Setting the power level of the unit 1 to 7
- Intensive BOOST ventilation
- On / off night ventilation
- mode of operation Manual / Automatic - according to AQS sensors if they are connected
- Manual mode shutdown time setting: never/after minutes/hours/days/weeks



- Unit status update
- Connection status – Online
- Name of the unit

Concentration of AQS sensors if connected
- CO2
- RH
- filter status
- current speed



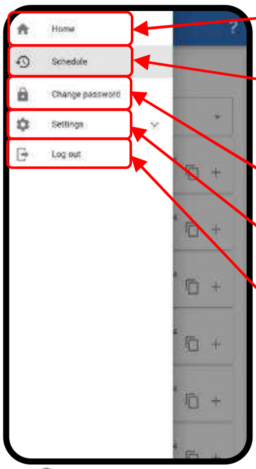
- Unit off / on
- Intensive ventilation-BOOST
- night ventilation on / off

- Unit status, errors: 01.-non-functional communication; 02.-vent error no. 1; 04.-vent error No. 2; 10.-error of the sensor on the drain; 20.-CO2 sensor error; 40.-RH sensor error

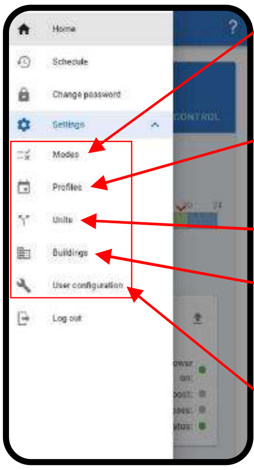
5b) Description of the APP

1) Description of the basic menu of the application

2) Description under the settings menu



- Home – back to the basic screen
- Calendar – allows you to change saved modes
- Changing the password
- Settings - more options
- Log out



- Modes – contains preset factory Modes, including the possibility to create your own mode (new mode) according to your requirements (power level, night cooling, automatic/manual, etc.).
- Modes – factory preset Modes will be displayed, including the option to create your own mode (new mode) according to your requirements.
- Units – you will see a list of already paired Units with the option to add – pair another unit.
- Buildings – you will see a list of already established Buildings (apartments) with the option to add more new buildings (apartments). You can even set up several units in one building.
- User settings – enables the possibility of sending / not sending notification messages about the status of the unit, filters, etc.

- You can find more detailed information about installing the converter and controlling the entire WifiModule application in the complete user manual, which is located on the website www.xvent.cz or in the help of the application under the symbol ?