

BT-CT03 RF

Central Unit WIFI

Vision® Wireless

Installation and operational manual

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GENERAL INFORMATION

Safety warnings and operating instructions

- This product should be installed preferably by a qualified professional. Subject to observation of the above terms, the manufacturer shall assume the liability for the equipment as provided by legal stipulations. All instructions in this Installation & Operation manual should be observed when working with the controller.
- Failures due to improper installation, improper use or poor maintenance are voiding manufacturer liability.
- Any attempt to repair voids the responsibility and the obligation to guarantee and replacement from the manufacturer.
- Risk of explosion if battery is replaced by an incorrect type.
- This device may be used by children aged at least 8 years and by people with reduced physical, sensory or mental capabilities or lack of experience or knowledge, if they are properly supervised or if instructions relating to the safe use of the device have been given to them and if the risks involved have been understood. Children should not play with the device. Cleaning and user maintenance must not be carried out by children without supervision.



Disposal and recycling information

The full text of the EU declaration of conformity is available at the following internet address: www.wattswater.eu

- 2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info
- 2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info



1. PRESENTATION

Thank you for choosing **Vision® Wireless**, a Wireless communication system for controlling heating and cooling system. It allows multi zones management (up to 50) of your electrical and hydraulic heating system.

The central unit, main characteristics:

- Touch screen
- Interface via internet (WiFi)
- Wall mountable with power supply 85-265VAC (50-60) Hz
- Table mountable with supplied bracket and mini USB power supply (0-5V) (sold separately)
- Back up Battery for installation operation of 1 hour maximum
- RF Communication only with **Vision® Wireless** devices (up to 40m internal, extendable with repeater)
- Able to manage up to 50 zones or rooms and 4 main supply circuits with a dedicated pump or boiler on each
- Multiple heating / cooling devices control
- SD Card slot for updating software
- Intuitive menus for devices management

Content of the packaging:

- Central unit
- 230V Flush mounted power supply
- wall/table support
- CE conformity declaration
- Quick installation guide

2. INSTALLATION

2.1 Installation sequence

Please follow the set-up sequence below;

STEP 1 Install your central unit (see 2.2 Install your central)

STEP 2 Create your house / create and name your rooms (see 3.3 Configure your house). Please note when pairing the WFC-03 HC RF with the central unit, the rooms are automatically created according to the number of RF thermostats.

STEP 3 Pair your devices to the central controller / allocate them to the appropriate rooms (see 3.4 Pair your devices to the central). **Please charge the central unit for at least 1 hour before pairing the devices already mounted.**

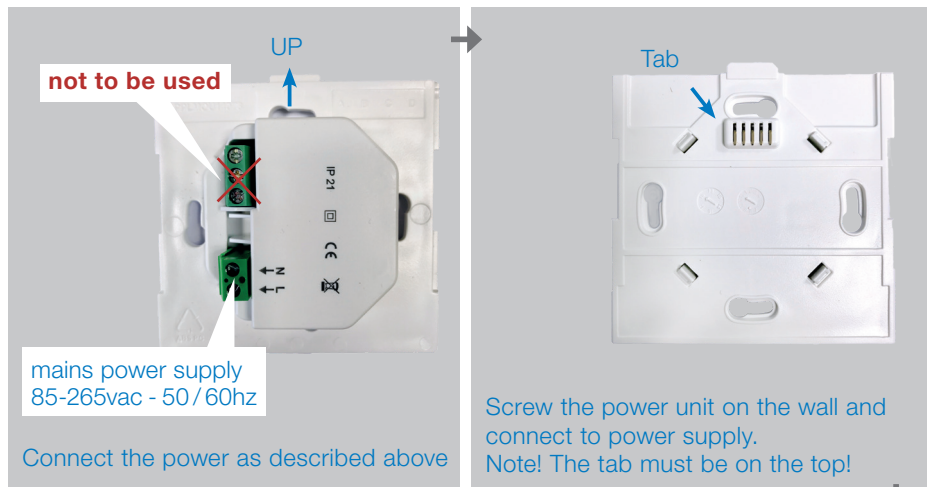
STEP 4 Personalise your central unit user settings (see 3. Settings)

STEP 5 Set up Wifi for remote control of your system via smartphone / tablet (see 6. Set up Wifi control)

STEP 6 Program your devices so that they work on a time schedule (see 7. Heating / Cooling Device Management)

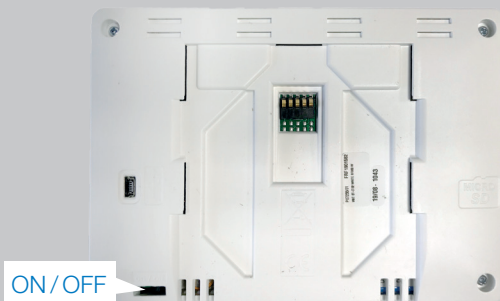
2.2 Install your central

2.2.1 Wall mounting



Put the switch on ON position

Mount the Central on the power unit and slide it on the bottom to clip it. The Central is ready for operation.

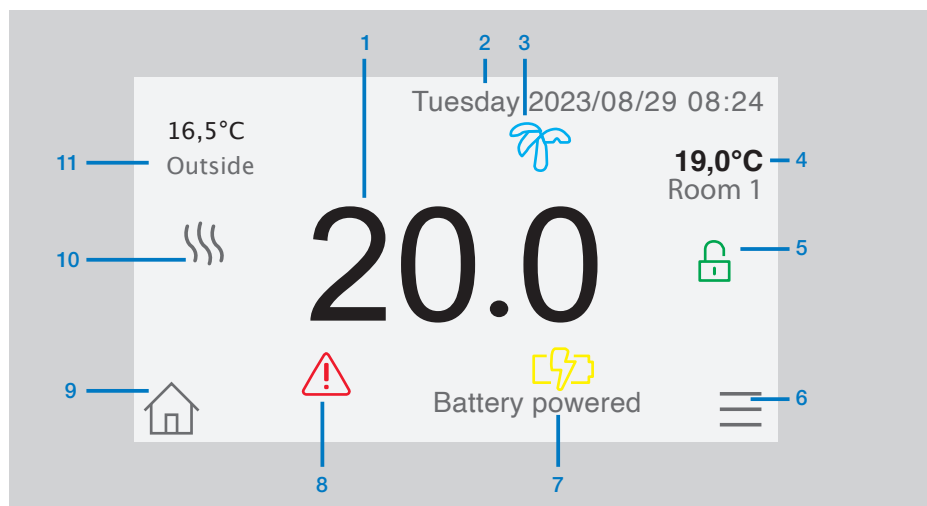


2.2.2 Table installation (with optional mini USB cable – sold seperately)

Connect the central unit with the mini USB cable (5V, 1A) and then mount the leg support on it and put the switch on ON position. The central unit is ready for operation.

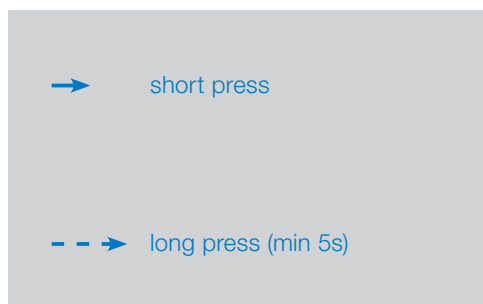
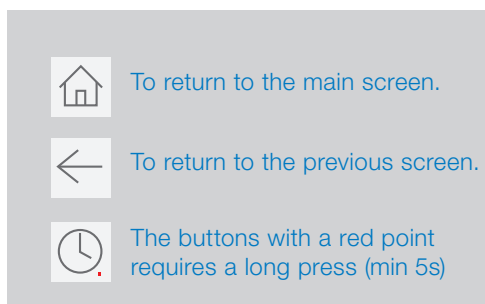


2.3 Main screen icons description



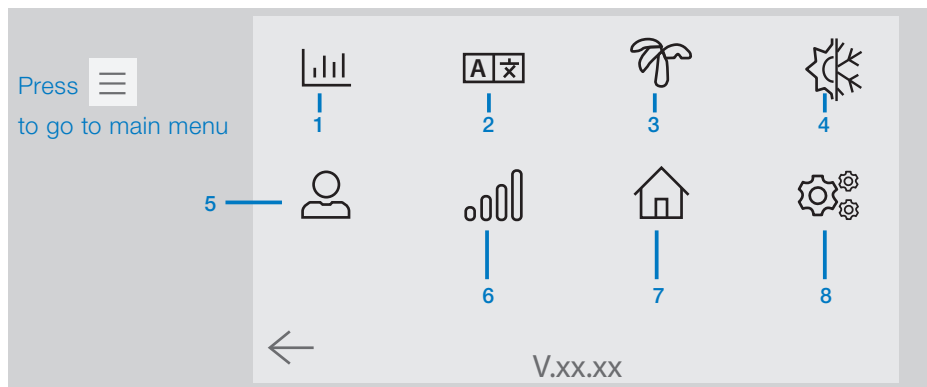
- 1 Current time or room ambient temperature. Make your choice by pressing on it.
- 2 Date
- 3 Holidays mode status.
- 4 Display the ambient temperature in desired room.
- 5 Screen lock. Long press toggles between locking / unlocking.
- 6 Main menu.
- 7 The device is working on battery (! only for settings and pairing).
- 8 Error flag – press to access RF, limits, alarms, battery anomalies.
- 9 Rooms access (if Central is locked – cannot change settings).
- 10 Boiler status displayed if connected to the Central.
- 11 Outside sensor temperature (Require Outdoor sensor device)

2.3.1 General pictograms and actions



3. SETTINGS

3.1 Main menu



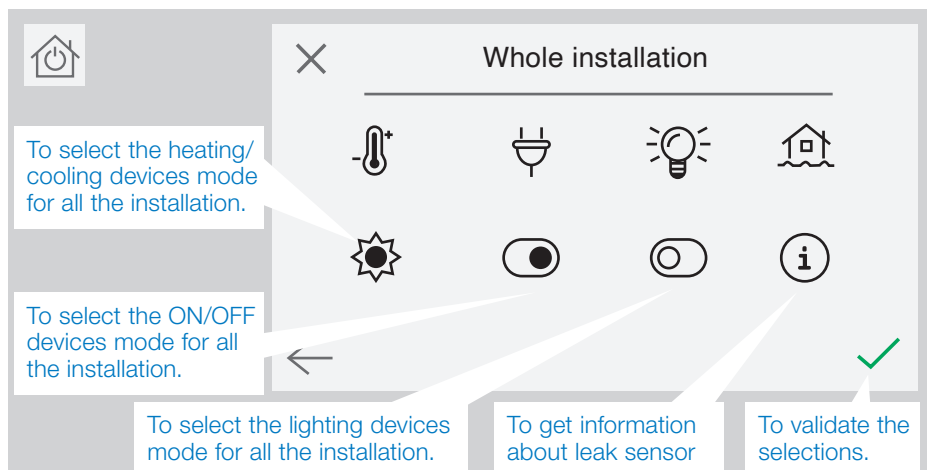
1 **Energy consumption statistics menu.**

2 **Language (the flag of the current language is displayed).** 8 languages are proposed. If you want to select another language, you need to insert the software (available on www.wattswater.eu) on a microSD then select yours.

3 **Holidays menu.**

- To set the departure / return dates and time.
- Use or to select year / month / day / hour & minute.

Set and validate the operating mode of the devices in holiday mode. (Same menu then general commands menu).



4 **Heating/cooling mode management menu.** See section "Heating and cooling control"

5 **User settings menu.**

In this menu, you can set:

- Time, Date (Manual, Automatic).
- Time and date if the device is in manual time update mode.
- Summer-Winter (Manual, Automatic).
- Temperature unit (°C, °F).
- Backlight brightness
- Screen saver (Enabled, Disabled).
- Factory default user (interface).

6 **WIFI menu.**

 Reading button (refreshment).

The Internet access password allows to link your central unit to your Internet account (See below) for a remote control of your system through the Internet or smartphone. n.b.: At first use or software update, wait for some time until the green State icon is active.

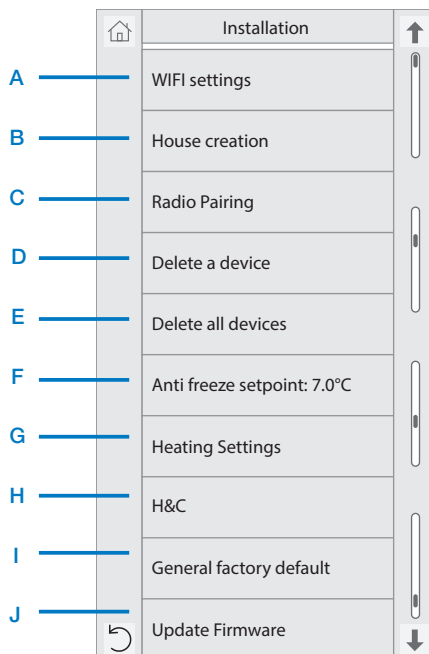
7 **General commands menu.** Use this menu to put all the same devices type in the same operating mode.

8 **Installation menu (Long press)**

A **WIFI settings**

To set the Wi-Fi configuration (SSID and password), you can do it manually or by scanning active networks.

Configuration requesting a registration on a web page is not supported.



Wi-Fi status:

0/2 : Central unit is not connected to the Wi-Fi router

1/2 : Central unit is connected to the Wi-Fi router but not to the server

2/2: Central unit connected to the Wi-Fi router and to the server (pairing of the central to an account is required)

n.b.: The connection to Internet is recommended with Certified Wi-Fi routers (<http://www.wi-fi.org/certification>).

n.b.: For the network scan, repeat at least twice the operation if your desired Wi-Fi network is not displayed. If your desired Wi-Fi network is still not displayed, enter the Wi-Fi settings manually.

B House creation

See house creation section.

C Radio pairing

See radio pairing section.

D Delete a device

Select device type and then the device.

E Delete all devices

All devices installed in the system will be deleted (rooms will be maintained).


F Antifreeze setpoint

You can set the antifreeze setpoint as reference for the whole installation.

G Heating setting

You can fix setpoint limitations (min/max) per zone and the offset assigned to devices working in floor sensor regulation.

H Heating/cooling settings

You can set the installation in heating mode, in cooling mode or in manual mode. If you set the device in manual mode, the  icon appears on the main menu

I General factory default

To reset the system with the factory values, but the software version will remain the same.

J Update Firmware

To update the software, with the SD-card. The system is qualified to work with SD-cards less than or equal to 16GB.

Select  to proceed (long press)

Please wait the end of the update procedure (The Wifi icon should be available for the Wifi central unit) before removing the microSD from the central unit. The SW and the procedure to update the central unit is available on www.wattswater.eu.

3.2 User settings

Adjust time/date

Date and time can be set manually or automatically.

If auto is selected, location must be defined on the smartphone or web application. Then, the device will automatically get current time from internet (Wi-Fi connection is mandatory).

Language

Language settings - see MAIN MENU section.

Personalization

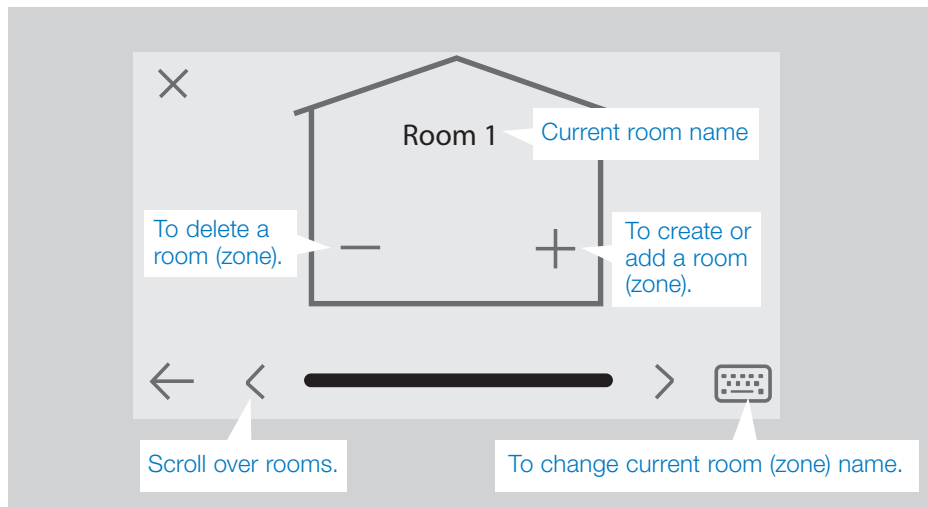
Personalization settings (background color, screen brightness, etc). See “User Settings Menu” in MAIN MENU section for further information.

3.3 Configure your house



Now, you need to “create” your house - a list of rooms where various devices such as thermostats will be placed.

Create all the rooms and re-name them (e.g. Room 1 = Kitchen, Room 2 = Lounge, etc)



3.4 Pair your devices to the central

- Install your devices (see relevant device manuals)
- Create the room if it doesn't exist (See section 3)
- Go to Radio pairing



- Choose the device type (heating, On/Off device, etc)
- Choose the room
- Note: The master (WFC-03 HC RF with thermostat) must be paired first
- Put the device in pairing mode (refer to the device manual)
- Start the pairing on the Central ➔
- Follow the instructions given by the Central (check on the device that the pairing is successful, refer to the device manual)
- n.b.: Automatic pairing time in case of RF communication loss: 10s.

- n.b.: Pairing of the repeater: Select any device type, any room and does not consider the pairing failure message on the central unit at the end of the procedure. The led should be green fix on the repeater.

- When you have finished pairing all devices, please check that the range allows good communication. To do this, adjust the setpoint temperature on the central and make sure that the information is received by the thermostat/receiver.

- Check the successful installation



In the radio pairing menu, choose test RF installation.

You will have warning in home menu for RF errors communications. The warning flag should appear for a maximum of 10mn. It would then disappear if there are no communication problems. If not, check devices showing RF errors, try moving them to another place and repeat the procedure.


4. HYDRAULIC SYSTEM ASSIGNEMENT


If your installation has several separate hydraulic circuits containing their own pumps or boilers, you may want to drive each pump/boiler separately from specific heating receivers or thermostatic actuator(s). With **Vision® Wireless** you can create and control up to 4 hydraulic circuits. Each of the circuits will have an RF remote circuit receiver linked to it that will activate the intended pump and boiler. If at least one heating receiver or thermostatic actuator on the circuit has a demand, the linked circuit receiver will operate and activate the pump (and / or boiler).


STEP 1: Define which device is assigned to a hydraulic circuit


With the plan of your installation, define which devices are on "circuit 1".

Then, pair and configure all these devices on circuit 1.

→  enter a zone (room) that belong to circuit 1,

→  , and select one device of circuit 1 (radio connecting box, radio receiver or radiator thermostatic head)

-- →  Now you have entered the configuration menu of the device. **Select the menu "Heating settings" and make sure that "Hydraulic heating" is selected**

-- →  You can now select the hydraulic circuit linked to this receiver (e.g. circuit 1).

→  → 

Repeat the procedure for each device of the room (zone) you want to link to the hydraulic circuit. Further devices can be selected using the buttons < or > at the top of the device name.

Repeat the procedure for each room (zone) that you want to link to hydraulic circuit 1. If you have assigned all rooms / devices, repeat the procedure for any further hydraulic circuits.

STEP 2: pairing radio receiver hydraulic circuit with the central unit

For each circuit, you can link a circuit receiver to drive the pump devices, valve drive or heat / cool generator of the circuit. This can be done for example by BT-WR02 RF.

≡ -- →  → Radio Pairing

Select "Circuit", then select the number of the circuit, e.g. circuit 1. Put the radio receiver in pairing mode (BT-WR02 RF).

→ 

Repeat the procedure for additional hydraulic circuits.

Heat and Cool installations

If your installation includes both heating and cooling functions, you can switch either from Heat to Cool manually or automatically:

- If you have a WFC-03 HCM RF in your installation set as "Master" (refer to Manual instruction of the device) then all is automatic you don't have to do anything
- For all other cases, you have to do the switch manually:

≡ →  → go in "H&C".

There you will have the choice between "Heating Only", "Cooling Only" or "Manual Reversible".

With this last option, you create a shortcut in the main menu where you can easily change Heat/Cool mode



Notes:

- In Cooling Mode, Reduced mode and Antifreeze mode are inactive:

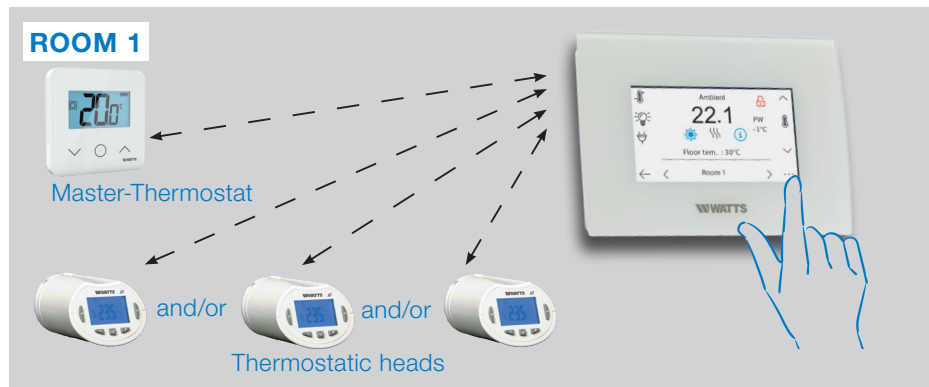
icon  is displayed

instead of  or 

- In the thermostat, user can configure the parameter “Cold” that allows the zone to do Cooling or not. If it is set to “No”, then if the mode of the zone is Cooling then the zone won’t make Cooling.

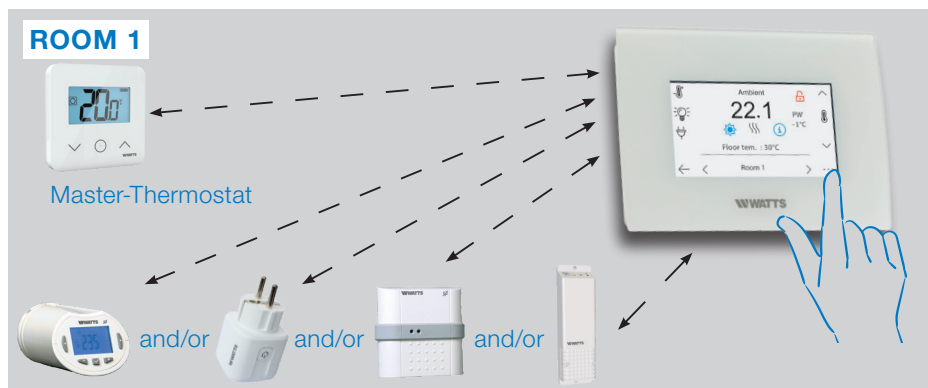
5. INSTALLATION TYPES (HEATING/COOLING)

TYPE 1 In this configuration:



- Pair first the thermostat (master - configured as a heating device) with the Central before pairing the other devices (configured as heating devices).
- The thermostatic heads regulate on thermostat temperature.

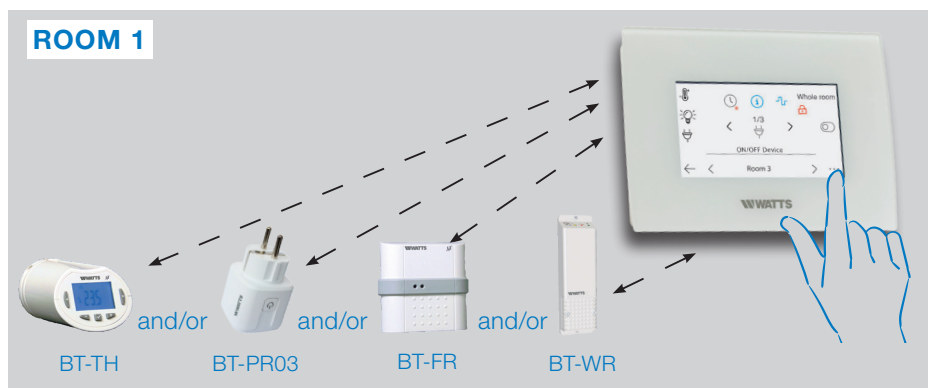
TYPE 2 In this configuration:



- Pair first the thermostat (master - configured as a heating device) with the Central before pairing the other devices.
- The other devices regulate on thermostat temperature.

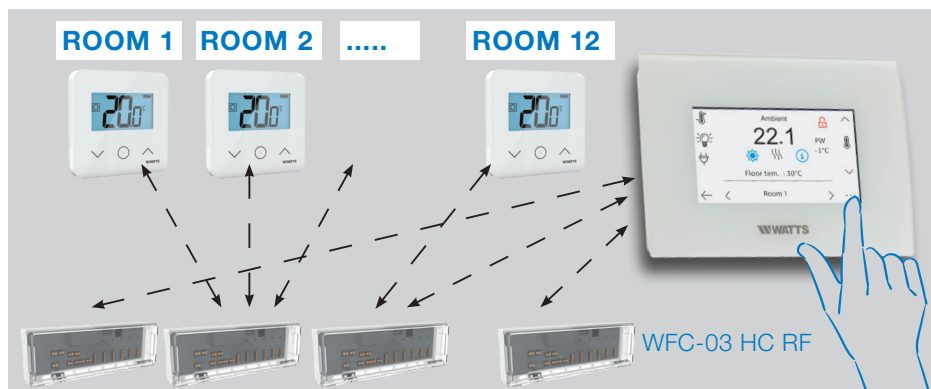
Warning! In this installation type, the thermostat (MASTER) must be in regulation Air mode (not floor or Air + Floor).

TYPE 3 In this configuration (no thermostat):



- BT-TH configured as heating device. BT-PR, BT-FR, BT-WR can be configured as an On/Off or lighting devices.

TYPE 4 In this configuration:



- Each thermostat is first paired with the appropriate WFC-03 HC RF and then the WFC-03 HC RF are paired with the Central
- During the pairing, the Central automatically creates rooms according to the number of thermostats (rooms) of master controller.

6. SET UP WIFI CONNECTION FOR MOBIL APP REMOTE CONTROL

STEP 1 Connect the central unit to your WiFi network:



- Choose WiFi settings
- Choose Research Networks (searches for your WiFi)
- Choose your WiFi from the list and enter your regular WiFi password
- Observe unit counting down from 120 to zero
- Make sure that the central is now connected to the WiFi network with an IP address (WiFi status should read 1/2)



If after several attempts, connection is unsuccessful, connect the central unit to WiFi manually.


STEP 2 Download the app to your device:

- For PC: click on this link or copy/paste this URL on you Web browser
<http://smarthome.wattselectronics.com/mobile/dist/#/login>
- For Smartphone: download **WATTS Vision®** application from App store or Google Play.



STEP 3 Create an Account

- Enter your details and select language.
- Select "Validate" (email will be sent to you with link).
- Go to your email and click on the link.
- Go back to your App account and follow the on screen instructions.
- Request a pairing code to link your central unit. The pairing code (valid 24h) is sent to your email inbox.

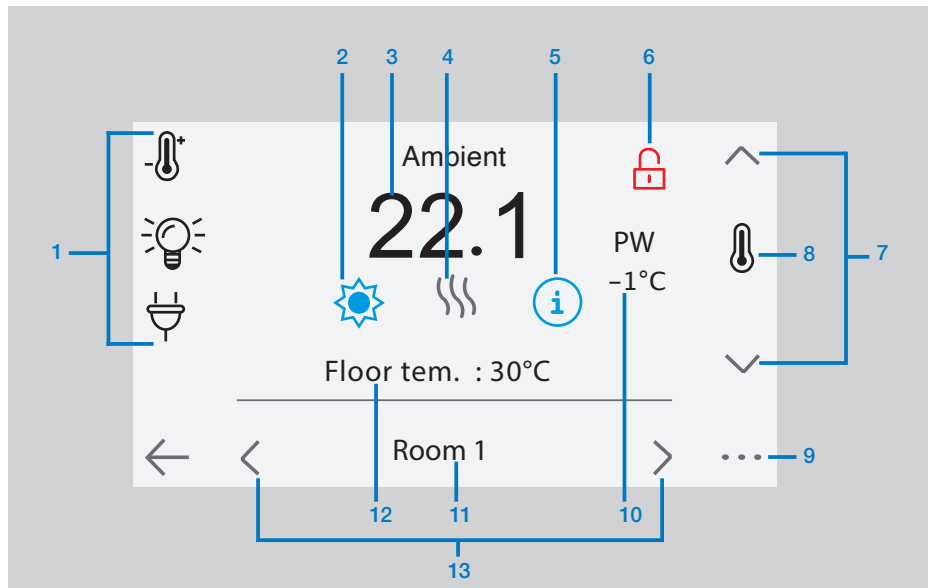
In the WiFi status menu  of the central unit, enter the pairing code (internet access password).

Your central unit should appear after a few minutes in the application or the web page. Click the refresh button if necessary. **WiFi status should read 2/2.**

Please note! It may take up to a few hours to display all rooms and devices in the application. You can then operate your central unit from anywhere.


Watts is not responsible for the correct operation of the connected devices, and potential damage caused by malfunction or improper use of the connected devices and appliances.

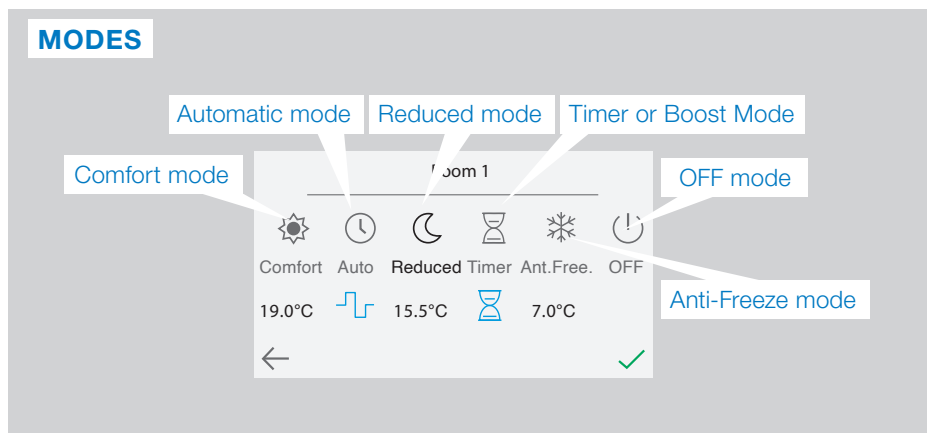
7. HEATING/COOLING DEVICES MANAGEMENT & PROGRAMMING





→ in the main screen and after selecting the room →



- 1 Device type choice (heating/cooling, lighting, On/Off). These buttons are only displayed if one device type is installed in the room (colored if active).
- 2 Current mode, press on this icon to enter in the menu where you can change the current operating mode.
- 3 Ambient temperature or setting temperature (setpoint) or humidity after one press on 8.
- 4 Heating/cooling indicator (animated if demand).
- 5 Information about the heating/cooling devices installed in the room
- 6 Only displayed if the screen is locked.
- 7 Set the current setpoint (deactivated if the screen is locked).
- 8 To display either the ambient or setting temperature or Humidity in 3.
- 9 Quick access to the desired room.
- 10 Pilot wire status.
- 11 Current room name.
- 12 Floor temperature if floor regulation.
- 13 Room changing.


→  to access this modes menu:




→  **Comfort Mode:** Set the room in comfort mode. If it remains active, the comfort temperature will be followed all the time.

→  **Reduced Mode:** Set the room in reduced mode. If it remains active, the reduced temperature will be followed all the time.

→  **Timer or Boost Mode:** Temporary derogation. Set the timer duration (days, hours, minutes) by pressing on  button, then validate and set the desired temperature on main screen.

→  **Anti freeze Mode:** Use this mode to put your room in anti-freeze mode (the temperature is set in the Installation menu)

→  **OFF Mode:** To switch OFF the device (room in off mode). Be careful! In this mode, your installation can freeze!

7.1 Programming your devices

→ **Auto Mode:** In this mode, the room temperature will follow the program you have chosen. You can choose between existing programs or you can create a new one that you can modify as you want.

→ to select between :

Use the Comfort button to select the hourly ranges during which the comfort temperature will be followed (orange range)

• and the reduced button to select the hourly ranges during which the reduced temperature will be followed (blue range).

• Use the arrows and to put the cursor on the desired hours.

Validate the program; the validated days are then highlighted in green (on this example: Wednesday, Thursday and Friday).

The days that are not programmed are displayed in grey.

• Information to view the current program

• Default programs:

P1: morning, evening & weekend.

P2: morning, midday, evening & weekend.

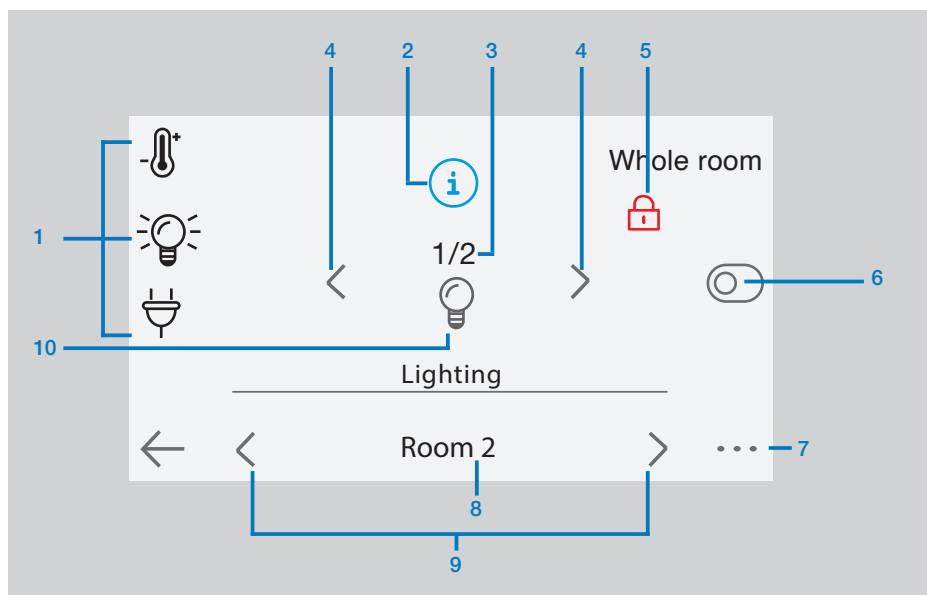
P3: day & weekend.

P4: evening & weekend.

P5: morning, evening (bathroom).

7.2 Lighting devices management


→  in the main screen and → 

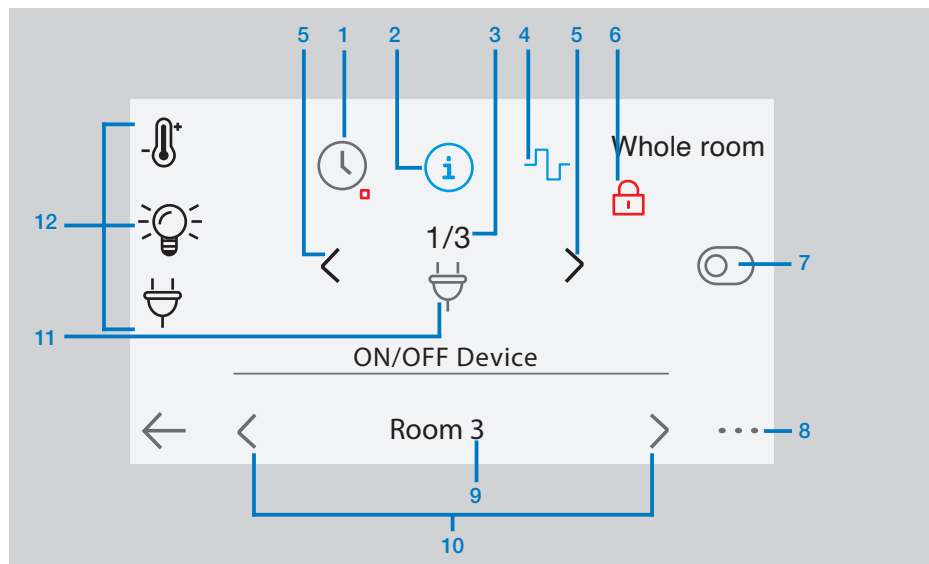


- 1 Device type choice (heating/cooling, lighting, On/Off). These buttons are only displayed if one device type is installed in the room (colored if active).
- 2 Information about the lighting devices installed in the room.
- 3 Indicates both the current lighting device number/the number of lighting devices in the room.
- 4 Only displayed if the number of devices is upper than 1; used to select the devices in the room.
- 5 Only displayed if the screen is locked.
- 6 General management for all lighting in the room.
- 7 Quick access to the desired room.
- 8 Current room.
- 9 Room changing.
- 10 Indicates the lighting status. A press on it switches the lighting status.

Please note that the lighting functionality does not support programs. If you want to program the lighting devices, please set the devices as ON/OFF.

7.3 ON/OFF devices management

→  in the main screen and on 



- 1 Long press to switch between auto mode and normal mode (colored if active).
- 2 Information about the device.
- 3 Indicates both the number of the current device / number of devices in the room.
- 4 Displayed only if the device is in Auto mode, press to access and edit the device program.
- 5 Only displayed if the number of devices is upper than 1; used to select the devices in the room.
- 6 Only displayed if the screen is locked.
- 7 General management for all the ON/OFF devices in the room.
- 8 Quick access to the desired room.
- 9 Current room.
- 10 Room changing.
- 11 Indicates the ON/OFF status. A press on it switches the status of the device.
- 12 Device type choice (heating/cooling, lighting, On/Off). These buttons are only displayed if one device type is installed in the room (colored if active).

8. VOICE CONTROL

The purpose is to link your Watts Vision account with your google Home or Amazon Alexa account.

8.1 Amazon Alexa

1. Trigger the Watts Vision skill available in the Skills and game menu of the Alexa application
2. Log in your Watts Vision account into the Alexa application to link you Watts Vision account with your Alexa account
3. In the devices menu, the thermostat menu should be available.

8.2 Google home

1. In the google home application, select Parameters, Services, work with Google and trigger the Watts Vision service.
2. Log in your Watts Vision account into the Google Home application
3. Select: Thermostat

8.3 Google Home and Amazon Alexa controls

Turn on/off the Electric Blanket
Set the Living Room to 21 degrees
What temperature is the Living Room ?
What is the Living Room set to?
Make it warmer/cooler in Living Room
Set Living Room thermostat to off / heat / automatic
Turn on / off the light
Set thermostat to automatic / eco / comfort / off
Turn off the heat (Alexa/Google)

Modes correspondence

Google home and Amazon alexa	Watts Vision application
Heating mode	Comfort mode
Auto mode	Program mode
Eco mode	Eco mode

Due to Google Application design choice, auto mode cannot be set via Google Home app. Auto mode can be set only by voice utterance.

9. MAINTENANCE

Cleaning of the central unit

Gently dust the outside of the central with a soft, lint-free cloth. If the central needs a more thorough cleaning:

- Lightly dampen a soft and clean cloth with water.
- Wring out any excess water from the cloth.

- Gently wipe the display and sides of the central, making sure no drops of water accumulate around the product.

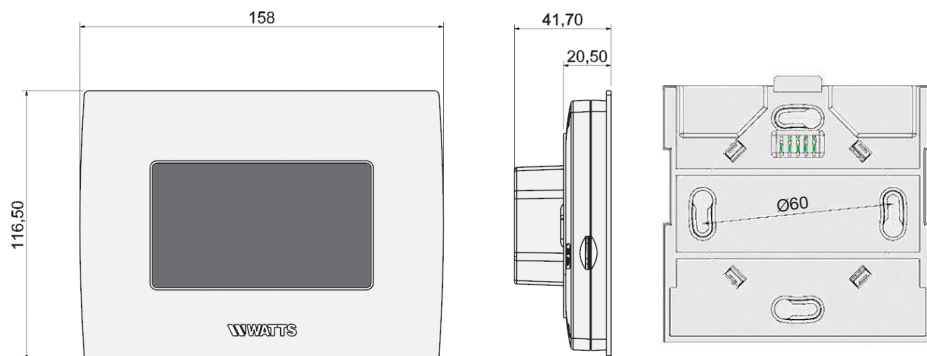
Important: Do not spray central directly with water, or use cleaning solutions or polishes, as doing so may damage the central.

For additional information, please visit <https://wattswater.eu/catalog/regulation-and-control/watts-vision-smart-home/>

10. TECHNICAL CHARACTERISTICS

It is an electronic control device

Purpose of the control	Automatic radio control
Construction of control	Electronic independently mounted control
Type of action	Type 1 only
Software class	Class A
Control pollution degree	2
Temperature for ball pressure test	75°C
Operating temperature, connected.	-30°C to +40°C
Operating temperature, battery	0°C to +40°C
Shipping and storage temperature	-30°C to +50°C
Electrical Protection	IP30
Electrical insulation	Class II
Temperature precision	0.1°C (from thermostat)
Setting Temperature Range	
• Comfort	5°C to 30°C in 0.5°C steps
• Reduced	5°C to 30°C in 0.5°C steps
• Anti-freeze	5°C to 10°C
Power Supply	85-265V, 50-60 Hz
Rated impulse voltage	2500V
Frequency band - ERP - Range	868.3 Mhz +/- 300 KHz – ERP < 25mW Range <40m internal, <100m open space
Software version	User interface: Shown on the main menu V.xx.xx Wifi communication: Shown on the wifi menu xx.xx
SD card	<=16GB (FAT)
WIFI	802.11b – 2.4GHz 802.11g – 2.4GHz
Dimensions	Width: 158 mm, Height: 116,50 mm, Depth: 20,5 mm
Weight (Central unit + power supply + table support)	0.635kg

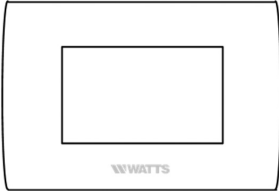


11. EU DECLARATION OF CONFORMITY

Hereby, Watts Electronics declares that the radio equipment is in compliance with the relevant Community harmonization legislation:

Designation	Description	Link
Low Voltage Directive (LVD) 2014/35/EU	The Low Voltage Directive (LVD) (2014/35/EU) ensures that electrical equipment within certain voltage limits provides a high level of protection for European citizens, and benefits fully from the Single Market.	2014/35/UE
Electromagnetic Compatibility (EMC) Directive 2014/30/EU	The Electromagnetic Compatibility (EMC) Directive 2014/30/EU ensures that electrical and electronic equipment does not generate, or is not affected by, electromagnetic disturbance.	2014/30/UE
Radio Equipment Directive (RED) 2014/53/EU	The Radio Equipment Directive 2014/53/EU (RED) establishes a regulatory framework for placing radio equipment on the market.	2014/53/EU
Restriction of the use of certain hazardous substances Directive (RoHS) 2011/65/ EU	Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment.	2011/65/EU
Waste Electrical & Electronic Equipment Directive (WEEE)	The WEEE Directive (2012/19/EU) aims to reduce the amount of waste electrical and electronic equipment that ends up in landfill.	2012/19/EU
Ecodesign and Energy Labelling Directive 2009/125/EC and Regulation (EU) 2017/1369	Ecodesign requirements for local space heaters.	2017/1369
Directive 2001/95/EC on General Products Safety	Ensure that only safe products are sold on the market	2001/95/EC

12. COMPATIBLE DEVICES

		Hydraulic panel heater	Electrical panel heater (P) Electrical Floor (F)	Heating(H)/Cooling(C)	Hydraulic floor regulation	On/Off Switch
BT-A02 RF BT-D02 RF BT-DP02 RF BT-D03 RF BT-DP03 RF	Wireless Thermostats	√	P F	HC	√	
BT-TH02 RF	Electronic thermostatic head for hydraulic radiator	√		HC		
BT-FR02 RF	Flush mounted receiver. Live contact 16A		P F	HC	√	√
BT-WR02 RF	Wall mounted receiver. Live contact 10A		P	HC	√	√
BT-WR02 HC RF	Wall mounted receiver. 2 free contact relays 5A			HC	√	
BT-WR02 FC RF	Wall mounted receiver. Free contact 10A		P	HC	√	√
PR03 RF 230	EU Plug for driving electrical heater or electrical device. Live contact 10A 230VAC		P	HC		√
WFC-03 HC RF	Master 6 or 10 zones for hydraulic under floor heating and cooling			HC	√	
WFC-03 HCM RF *	Heating and cooling under floor management			HC	√	
REPEATER	RF extension range					

* WFC-03 HC RF is mandatory

Maximum devices / limitations

- 50 rooms/zones heating / cooling master devices (thermostats) and 50 heating / cooling slave devices (receivers).
- 25 ON/OFF devices with weekly program with 15 min steps.

- 25 lighting devices (ON / OFF).
- 25 leak sensors.
- You may have to use a Watts RF repeater if you want to extend the RF range.

The descriptions and photographs contained in this product specification sheet are supplied by way of information only and are not binding. Watts Industries reserves the right to carry out any technical and design improvements to its products without prior notice." Warranty: All sales and contracts for sale are expressly conditioned on the buyer's assent to Watts terms and conditions found on its website at www.wattswater.eu Watts hereby objects to any term, different from or additional to Watts terms, contained in any buyer communication in any form, unless agreed to in a writing signed by an officer of Watts.



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