

ween 

**[ Installation instructions ]**

# [ Safety guidelines ]

## READ THIS DOCUMENT CAREFULLY BEFORE INSTALLATION

- Do not allow children to handle this product
- Only basic skills as a handyperson are necessary to install the Ween correctly
- Electrical installation must conform to applicable safety regulations (NF C15-100)
- Never dismantle the Thermostat or the Relay
- Do not install the Thermostat or the Relay in extreme conditions of temperature or humidity
- Before installing the Ween Thermostat, check its compatibility with your heating system

## [ The Ween Thermostat ]

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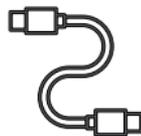
1 Thermostat



1 AC adapter



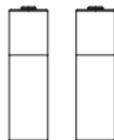
1 Relay



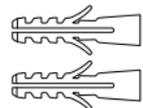
1 USB Cable



2 screws (3.5x30)



2 batteries (1.5V AA)  
fitted in the Relay



2 plugs (5mm)

## TECHNICAL SPECIFICATIONS

### THERMOSTAT

Power supply : 5VDC

Typical consumption : 0,75W

Operating temperature :

*0-50°C, without condensation*

Radio : *Wifi (2.4GHz) & 802.15.4 (868MHz)*

Temperature setting :

- Units : °C
- Resolution : 0,1°C
- Accuracy: 0,3°C

Humidity measurement :

*+/-2%RH over the range [20-80%]*

Setting :

- Temperature range available : 5-35°C
- Increment : 0,5°C
- Weight : 225g

### RELAY

Power source : *2 AA battery – operating life 1 year depending on radio environment and regulation mode*

Operating temperature:

*0-50°C, without condensation*

Radio : 802.15.4 (868MHz)

Control output:

- TOR: 240VAC / 5A (NO et NC)
- Pilot wire
- Bus : BSB (Siemens)

Weight (without batteries): 140g

### APP

Compatible Android 4.2 and higher

Compatible iPhone 5 and higher

### CE CERTIFICATION

WEEN declare that their products conform to the requirements of CE certification including:

- Low-voltage directive 2014/35 / UE
- Directive CEM 2004/108 / CE
- Directive R & TTE 1999/5 / CE
- Directive RoHS 2011/65 / UE

All informations available on :

<https://www.ween.fr/Data/WeenW01W02-CE.pdf>

### EQUIPMENT WARRANTY

Installation comprises the 3 following stages :

- I. Connecting the Thermostat to Wifi**
- II. Connecting the Relay to the heating system**
- III. Connecting the Relay to the Thermostat**

These 3 stages are relatively separate.  
However, we advise you to carry them out in the above order

**Before installation, check the Ween Thermostat compatibility with your heating system  
([www.ween.fr](http://www.ween.fr))**

# I. Connecting the Thermostat to Wifi

## [ Preamble ]

### OPERATION

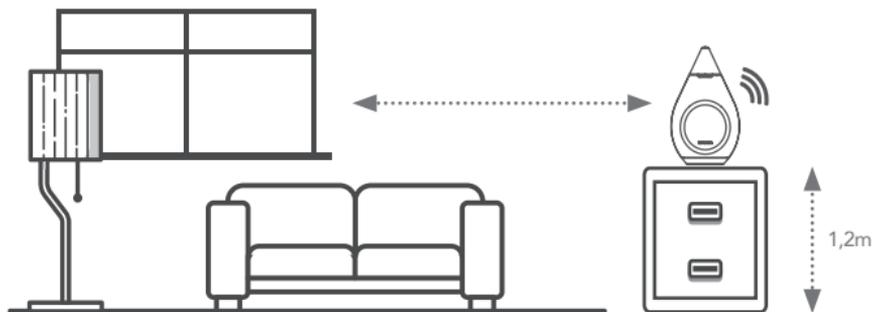
The Thermostat is the system's « brain ».

It must be installed in the living room of your home.

It is connected to the internet by Wifi.

It ensures optimal control of your heating by constantly piloting the Relay.

The Relay interfaces with your heating system.



## THE THERMOSTAT

Processes data and carries out measurements to regulate the temperature.

Should be placed in a position allowing an accurate evaluation of your comfort, i.e :

- In a room that is in constant use
- Near an inside wall
- About 1,2m (50 ins.) from the floor
- In a position where air can circulate freely (not in a recess)
- Away from direct sunlight and other heat sources (radiators, TV, etc.)
- In a draught-free area
- In a zone well-covered by your Wifi
- At a distance from the Relay allowing good communication between the two

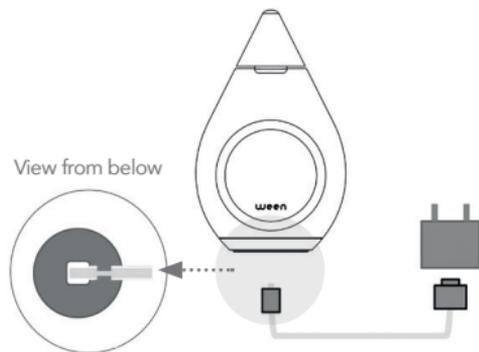
## [ Connecting the Thermostat ]

**1)** Insert the cable's mini-USB connector firmly into the Thermostat in the position indicated (1). Clip the cable into the grooves in the base to hold it in place.

**2)** Connect the other end of the USB cable to the adapter and plug this into a mains socket.

On startup, the Thermostat displays a tutorial screen. Scroll down to read, then click on "I understand".

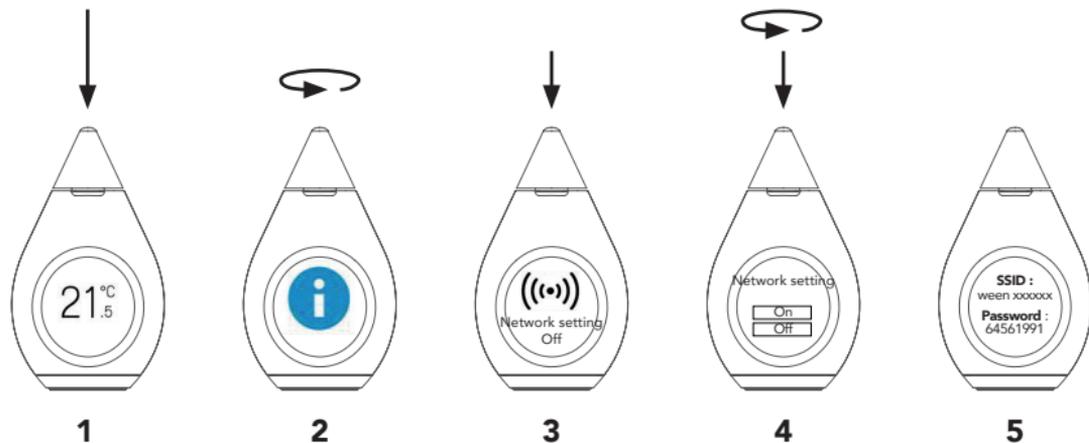
**3)** The Thermostat may display a different temperature from reality, especially at first. If it was previously in cold surroundings, it may need up to an hour to adjust to the ambient temperature.



**4)** On initial installation, the “Wifi configuration” screen appears automatically. It displays the Thermostat Wifi’s SSID and the associated password. The Thermostat flashes purple.

If this is not the case:

1. Long press on the Thermostat’s button
2. Turn it until you see “Wifi configuration Off”
3. Click once, you will access the choice On / Off
4. Turn to select On and click to confirm



# [ Download the App on your Smartphones ]

App is available on Google play for android Smartphones  
Apple Store for iOS Smartphones.

Download the Ween Thermostat App on all family's Smartphones.

## II. Connecting the Relay to the heating system

### THE RELAY

Ideally, the relay should be installed in the position of the old thermostat.

It is battery-operated, so installation is simple.

The Relay doesn't measure temperature, so its exact location does not affect the Thermostat operation.

Following points should be respected :

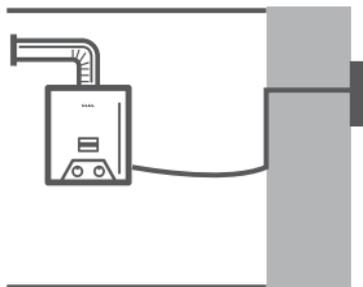
- Position of the Relay should be more than 30cm (1 ft) away from boiler/heat pump
- Do not place it close to large metallic objects, and do not allow these to obstruct the Relay-Thermostat connection

In certain delicate situations, it is possible to use an external power source for the Relay. In this case, please contact [support@ween.fr](mailto:support@ween.fr)

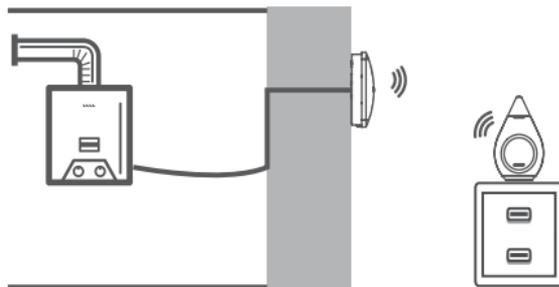
## [ Your thermostat is wired ]

If you want to replace your wall-mounted thermostat, installation consists of replacing the existing thermostat by the Relay.

BEFORE



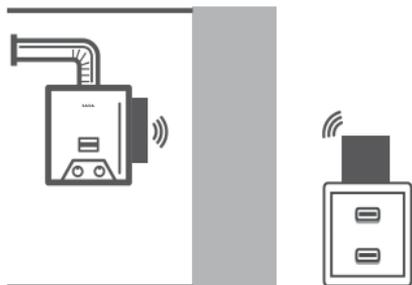
AFTER



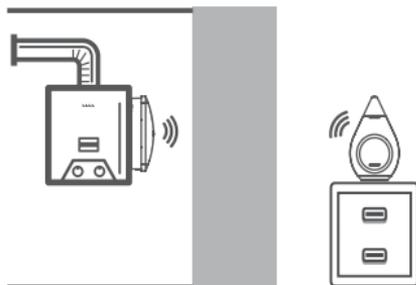
## [ Your thermostat is not wired ]

If you already have wireless thermostat,  
installation consists of replacing the existing relay by the Ween Relay, near the boiler or the electric cabinet.

BEFORE



AFTER

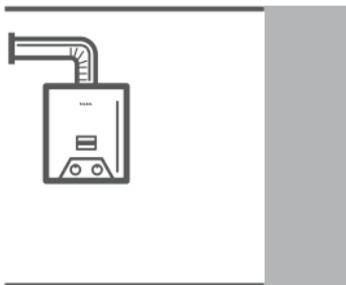


## [ You have no thermostat ]

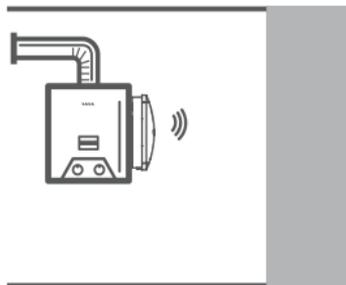
Follow the instructions for « wireless thermostat ».

This will avoid running wires between your living room and the boiler or electric cabinet.

BEFORE



AFTER



## [ You have a thermostat ]

First, switch off the power!  
Then remove the existing thermostat.

### WIRED THERMOSTAT

- Remove the existing wall-mounted thermostat
  - Take a picture of cable connections
- 



### WIRELESS THERMOSTAT

If your thermostat is wireless, there will be a radio relay near the boiler or electric cabinet, connected to it by wires.

- Remove this relay
- Take a picture of cable connections



## [ You have a thermostat (cont.) ]

### IDENTIFY EXISTING CABLES

If there are only 2 cables, these are the control cables to connect to the Ween Relay.

If there are 4 cables, 2 are the control cables, the 2 others are probably a power source (perhaps mains).

The colours are not significant. Refer to the indications on your old thermostat/relay to identify the cables.

- The control cables will be identified by the symbols COM (or C)/NO/NC or by the following symbol: 
- The power cables are identified by L/N ou P/N

Identify the control cables.

The power cables are not needed, and should be insulated.

*If you are in doubt, send a picture to  
[support@ween.fr](mailto:support@ween.fr)*

*Insulation  
of unused cables*



# [ You have no thermostat and your heating is not electric ]

## IDENTIFY THE NEW CONNECTIONS

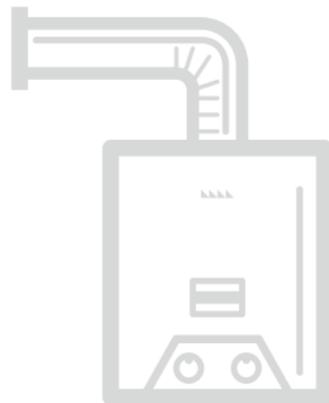
You must identify the connection points for the remote control.  
Symbols vary according to the manufacturer.

The following are frequently encountered:

TA, TAM, Cde Dis, S AMB, CL+/CL-, 

Consult the manual for your boiler,  
or contact your heating technician.

*If you are in doubt, send a picture to  
[support@ween.fr](mailto:support@ween.fr)*

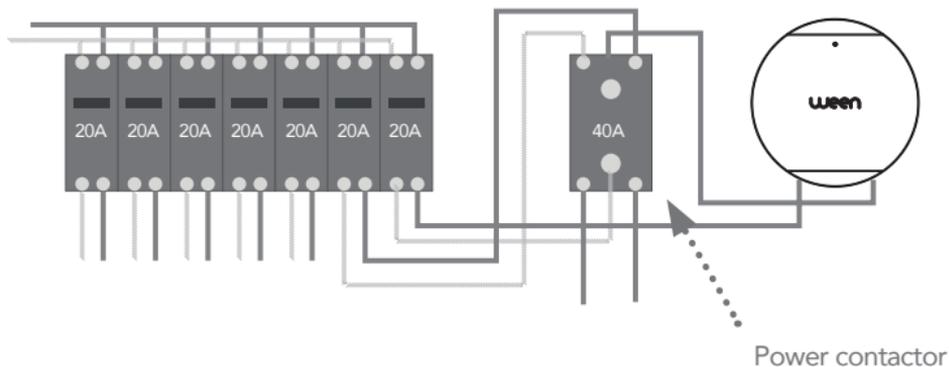


# [ You have no thermostat and your heating is electric ]

## IDENTIFY THE NEW CONNECTIONS FOR EACH CONVECTOR OR RADIANT FLOOR

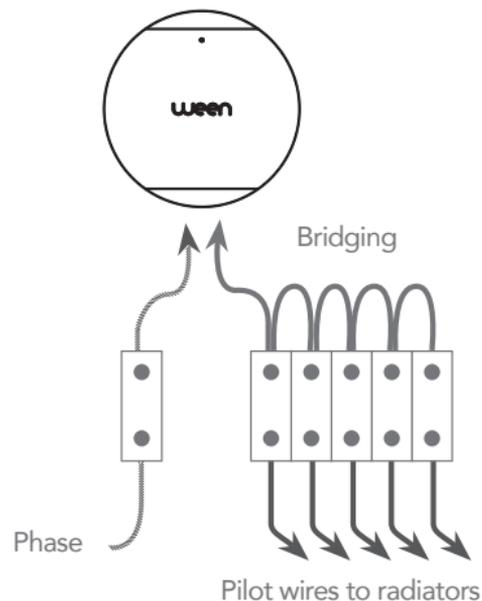
- 1) In the case of direct control, you must identify the control cables for the contactor.

Installation and connection of a programmable  
thermostat and a power contactor



**2)** In the case of control by Pilot Wire, you must identify the cable carrying the phase (« P »– neither blue, green, nor green & yellow) and the pilot wire leading to the convector. If there are several pilot wires, start by connecting them together in a group. Then connect this group to the Relay with a cable.

**NB :** *In old installations, current standards and colours are not necessarily respected. It is essential to use the appropriate equipment to ensure safety.*





# [ Identify the control mode ]

## IDENTIFY THE CONTROL MODE OF YOUR HEATING SYSTEM

**The Ween Thermostat is designed to adapt to most heating appliances :**

Electric, Gas, Oil, Heat Pump, Electric floor Heating, Pellet Stove, etc...

**According to the type of heating, The Ween Thermostat offers the following control modes:**

- Electric: On/Off or Pilot Wire (PW)
- Gas, Oil & Heat Pumps: On/Off or Bus
- Pellet Stoves: On/Off

**You should find out which of these three control modes (On/Off, Pilot Wire (PW) or Bus) is appropriate for your heating system. This information may be obtained :**

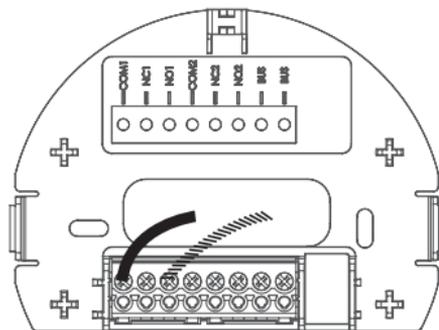
- On your old thermostat
- In the manual for your heating system
- From your heating technician

*If you are in doubt, send a picture to [support@ween.fr](mailto:support@ween.fr)*

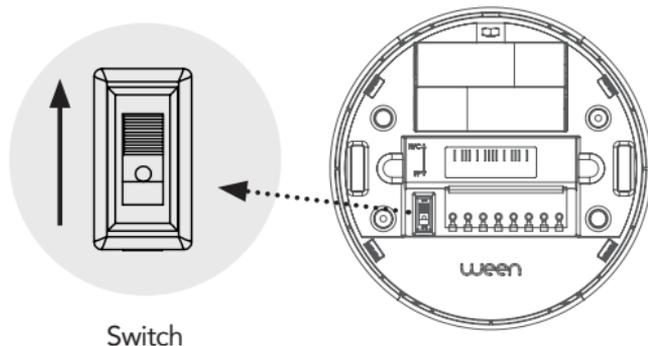
## [ Connecting in On/Off mode ]

### 1) Connect :

- One cable to the terminal marked COM1
- One cable to the terminal marked NO1



### 2) Put the Relay switch on "NOR" (2).

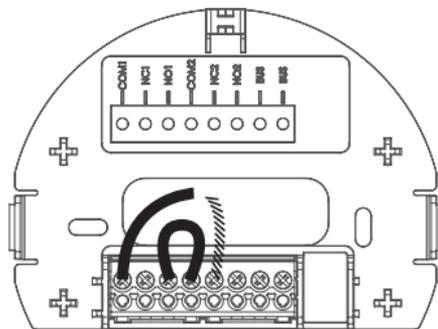


Switch

## [ Connecting in *Pilot Wire (PW)* mode ]

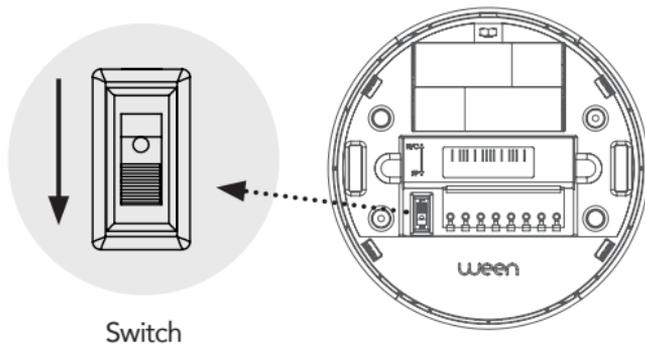
### 1) Connect :

- The positive phase to the terminal marked COM1
- The pilot wire(s) for the radiators to the terminal marked NC2
- A cable between terminals NO1 & COM2



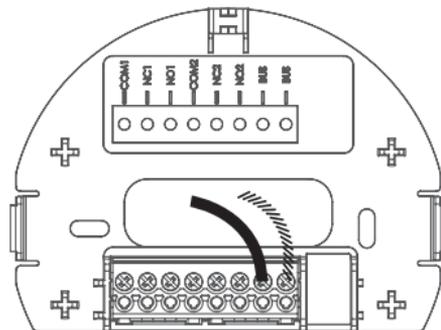
### 2) Put the Relay switch on "FP" (1)

- Put your radiators on "auto"

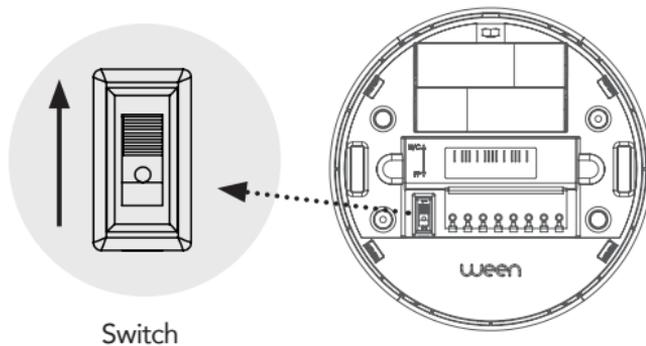


## [ Connecting in *Bus* mode ]

- 1) Connect a cable to each BUS terminal without distinction (no polarity in BUS mode).



- 2) Put the Relay switch on "NOR" (2).



## [ Connecting : conclusion ]

**Note:**

DO NOT connect unused cables to the unused terminals of the Ween Relay.

**Switch the power back on.**

## III. Connecting the Relay to the Thermostat

### PAIR YOUR RELAY

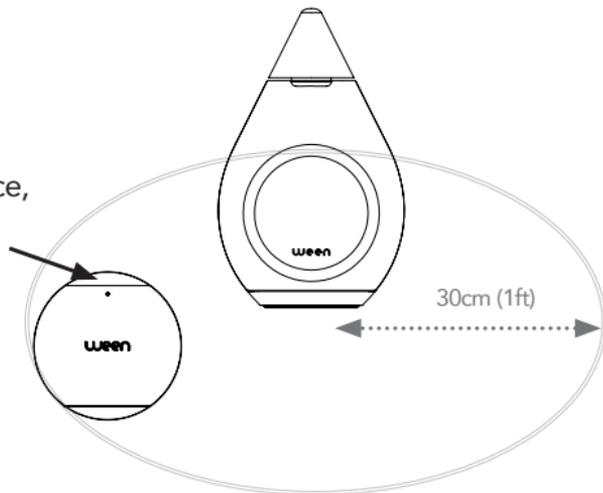
- Check that the batteries are in place in the Relay (Batteries are normally already fitted. The Relay consumes no power until in operation. Meanwhile, the batteries remain new.)
- Bring the Relay to within 30cm (1ft.) of the Thermostat.
- Press on the Relay button.
- Led Relay flashes green-red-green as long operation is in progress.

Pairing is automatic.

The Ween displays a special screen indicating « Relay connected ».

This operation is only to be performed once, during commissioning.

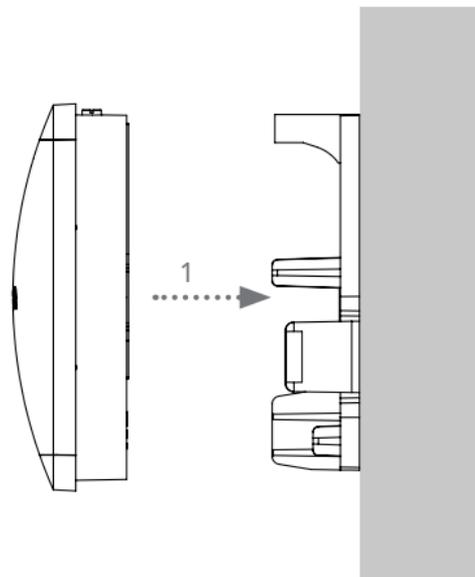
Press  
on the button



## [ Positioning the Relay ]

### INSTALL THE RELAY:

Clip the Relay to its backplate

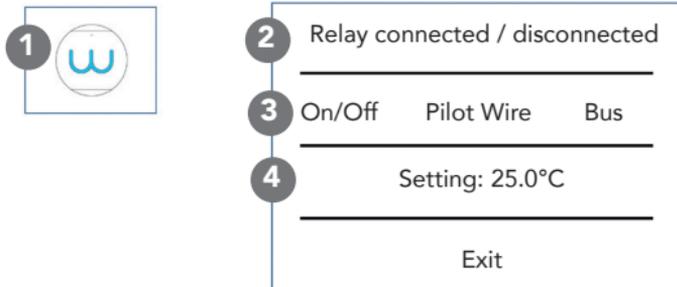


## [ Configuring the Relay ]

The Thermostat automatically displays the Relay configuration screen. This screen may be accessed at any time by a long press (2secs) and then selecting screen ① .

On this screen:

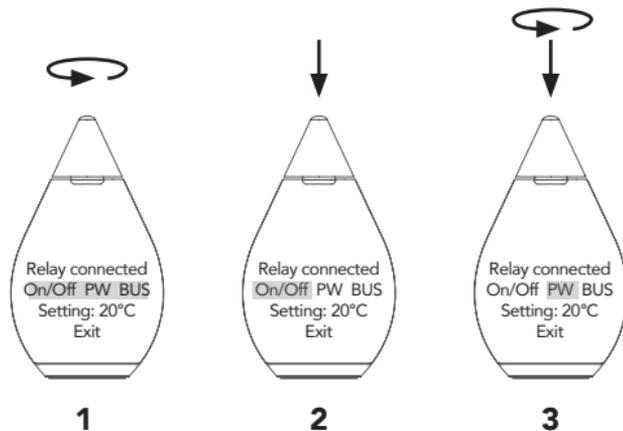
- Line ② displays the state: connected or disconnected
- Line ③ gives access to the various settings
- Line ④ allows settings to be changed, to ensure that the system functions correctly



## [ Confirming the control mode ]

The screen displays: « Relay connected ». It is time to confirm the control mode.

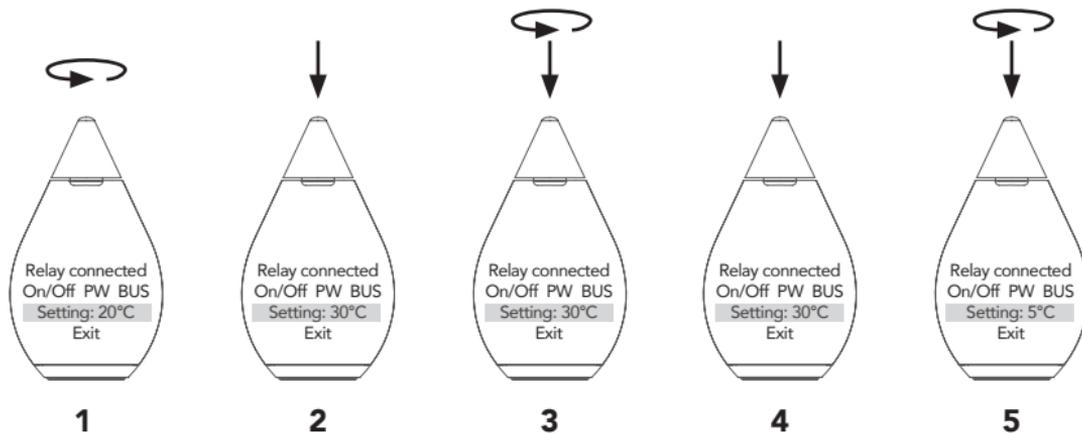
1. Turn the setting wheel of the Thermostat until the line « On/Off-PW-BUS » is highlighted.
2. Click once: one of the 3 options (On/Off-PW-BUS) is highlighted.
3. Turn the setting wheel to place the pointer on the control mode selected, and click to confirm.



## [ Testing the control mode ]

It is now time to check that the Thermostat is correctly controlling your heating system

1. Turn the setting wheel of the Thermostat until the line « Setting » is highlighted
2. Click to select
3. Select 30°C by turning the setting wheel and click to confirm
  - Check that the heating system comes into operation
4. Click to select
5. Select 5°C by turning the setting wheel and click to confirm
  - Check that the heating system stops (NB certain systems take a certain time to switch off)

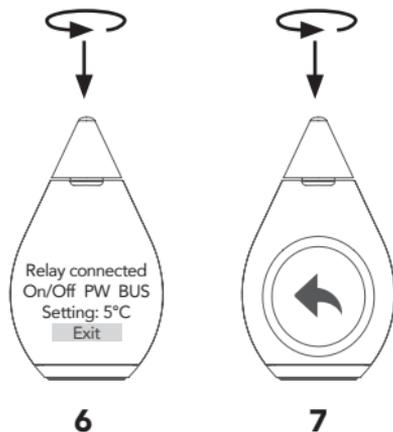


If your heating system does not switch on and off as above:

- If On/Off mode (reversed operation): move the cable from terminal NO1 to terminal NC1.
- If PW mode (no change): the cable on terminal COM1 is the neutral and not the positive phase.
- If PW mode (« Stop » mode instead of « Frost Protection »): inverse the cables on terminals COM1 and NO2

6. Turn the setting wheel until the line « Exit » is highlighted, and click.

7. Turn the setting wheel onto the « Back » arrow, and click.



## [ Heaters setting ]

In order to ensure correct operation, heaters in the living room where the Thermostat is located should be set as follow:

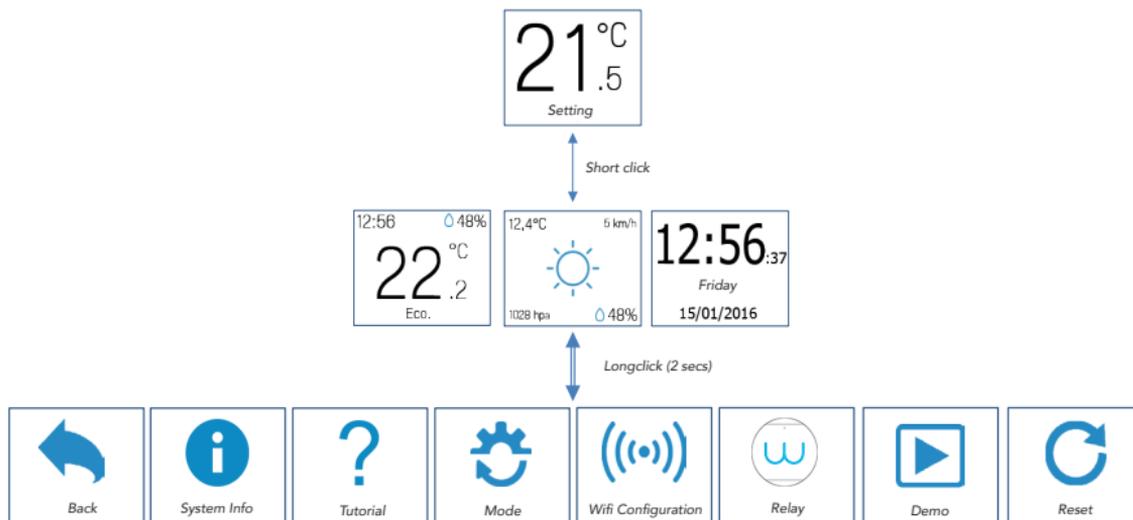
### **Living room:**

- Fluid-based heating systems:  
Open valve heaters to the maximum.
- Electric heaters:  
Set the radiator controls to an « high » value (8/10 or 28°C).

### **Other rooms:**

Adjust in each room heater according to the level of comfort required.

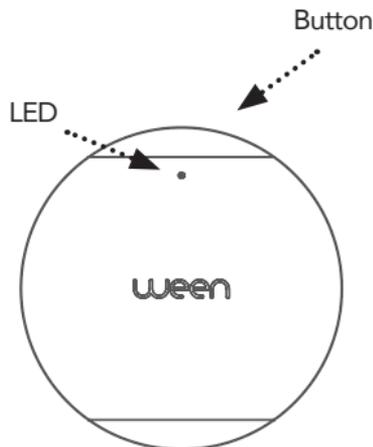
## [ Organization of menus ]



### Colour code for the Thermostat LED:

- « Breathing » blue: in operation
- Flashing orange: Relay connection lost
- Flashing red: Wifi connection lost
- Purple : Wifi configuration mode
- Turquoise : Setting mode

## [ Relay Interface ]



### Operation :

- Flashing green / 30secs: OK
- Flashing green-red-green / 30secs: Thermostat link lost (seeking)
- Flashing red / 20secs: batteries low
- (precedence over green-red-green – see below)

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### Short press on button:

- 3 green flashes: operation OK.
- Flashing green-red-green: no communication with Thermostat for more than 15min, see below.

If the Relay loses its connection with the Thermostat for over an hour, it will automatically switch to independent operation, and adjust to the « comfort » setting.



**Long press on button (2secs):**

- Switches to 'Comfort' mode
- Short press on button: long red

**Long press on button (2secs):**

- Switches to 'Low' mode
- Short press on button: long yellow

**Long press on button (2secs):**

- Switches to 'Local Auto' mode
- Short press on button: long green

The return to 'normal' mode is automatic, as soon as connection with the Thermostat is back.

