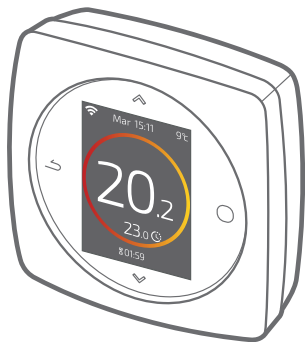


OPERATING INSTRUCTIONS // INSTALLATION

EN

Thermostat 225 Connect

Thermostat 228 Radio-Connect



074902
074903
074912
074913
474002
474003



U0755990_2500_EN_2
23/11/2023

This appliance can be used by children from 8 years old and by persons with reduced physical, sensory or mental capabilities or without experience or knowledge, provided that they are properly supervised or if they have been given instructions on how to use the appliance safely and the risks involved have been understood. Children must not play with the appliance. Cleaning and maintenance by the user must not be carried out by children without supervision.

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OPERATING INSTRUCTIONS

Table of Contents

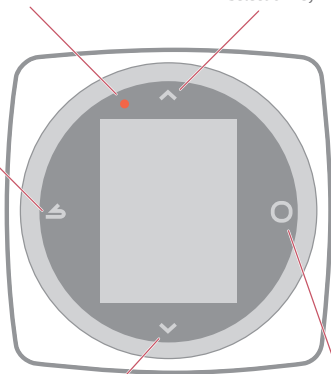
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I adjust my temperature	10
I programme my thermostat	11
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Thermostat 225/228 : The keys

Weak battery or generator error
message indicator *
(in the case of weak batteries,
change them within 3 weeks)

Selection key

Back key:

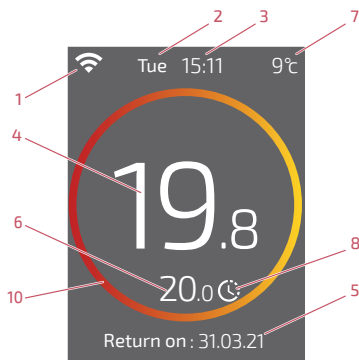


Selection key

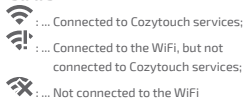
Ok key/
Access to the menu

* Thermostat 228 only

Thermostat 225/228 : The screen



1 - WiFi status...



2 - Day

3 - Time

4 - Temperature measured by my thermostat

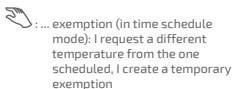
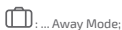
5 - Written information

(error code/date of absence end)
in case of an error, note the number
and consult your heating technician.

6 - Requested temperature

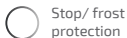
7 - Outdoor temperature (if option selected)

8 - Mode...



10 - Meaning of the circle:

• Off



• Heating

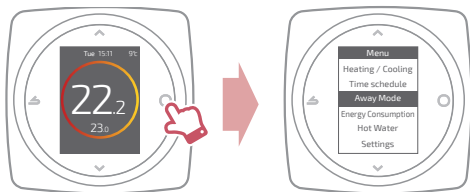


• Cooling*

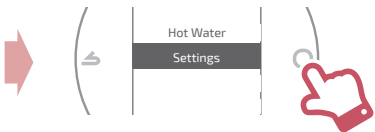


* Certain parameters (or menus) may not appear.
They depend on the appliance's installation (on the options selected).

I access the menu



Settings



In the settings menu:

I can adjust the:

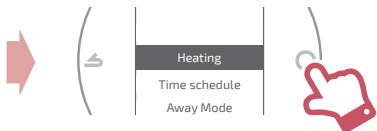
- Language
- Date and time
- standby screen (backlit when no operation being performed)
- Screen locking

I have access to:

- Radio network information

Certain parameters (or menus) may not appear.
They depend on the appliance's installation (on the options selected).

I adjust my heating



Off

Frost protection function

On / Heating

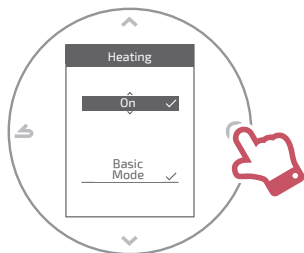
Heating function

Cooling

Cooling function

Auto

Automatically switches between heating, cooling and frost protection

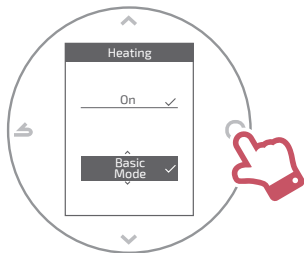


Basic Mode

Operates at a constant temperature

Scheduled Mode

Operates according to the time schedule
When Scheduled mode is activated for the first time, the Schedule Wizard is automatically launched.



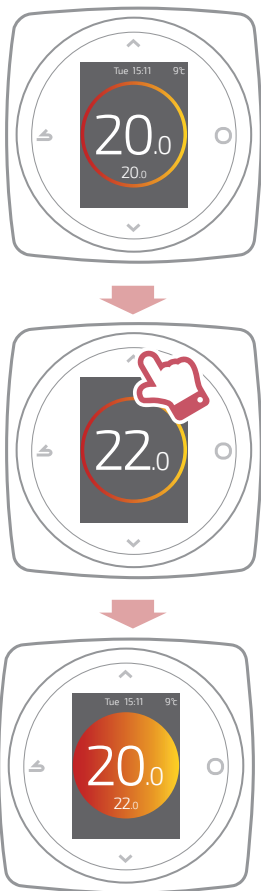
Default settings for the Scheduled mode:

From 06:00 to 22:00 → 20.0°C;

From 22:00 to 06:00 → 19.0°C.

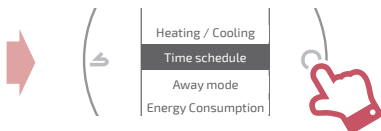
Certain parameters (or menus) may not appear.
They depend on the appliance's installation (on the options selected).

I adjust my temperature



Certain parameters (or menus) may not appear.
They depend on the appliance's installation (on the options selected).

I programme my thermostat



By default, Optimum Start is activated. I can deactivate it from the time schedule menu.

Example with Optimum Start:

If I would like 20°C at 8 am, my heating will come on before 8 am so that 20°C is reached by 8 am.



A scheduled temperature reduction may be temporarily ignored by the thermostat if the outdoor temperature is extremely low, in order to guarantee comfort and system performance.

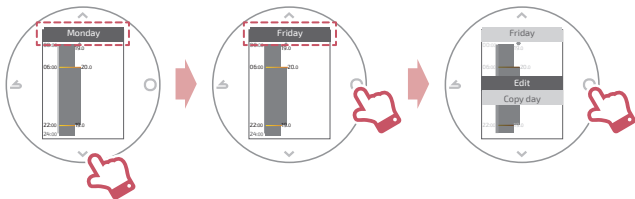
I use the Schedule Wizard



The Schedule Wizard allows me to set a schedule to suit my lifestyle (can be consulted and modified).

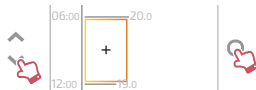
Certain parameters (or menus) may not appear.
They depend on the appliance's installation (on the options selected).

I edit my time schedule



I add a new period to my time schedule

1 I choose when to add a period.



2 I set the start time.



3 I set the temperature.



Certain parameters (or menus) may not appear.
They depend on the appliance's installation (on the options selected).

I delete a period from my time schedule

1 I select the period to be deleted.



2 I select the  icon.

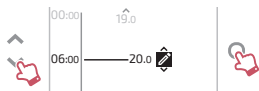


I edit the time or the temperature

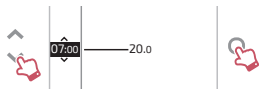
1 I select the period to be edited.



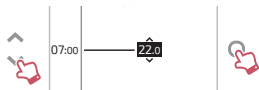
2 I select the  icon.



3 I set the start time.

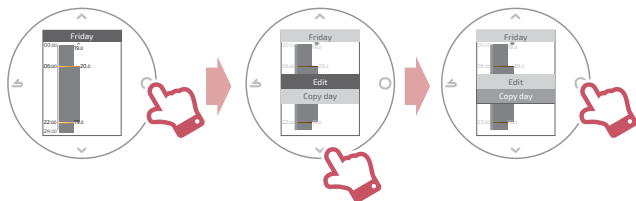


4 I set the temperature.



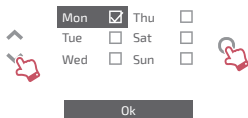
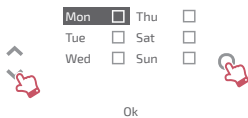
Certain parameters (or menus) may not appear.
They depend on the appliance's installation (on the options selected).

I copy my time schedule



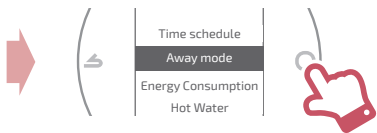
1 I select the days

2 I select 'Ok'.

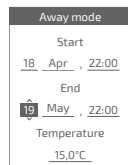


Certain parameters (or menus) may not appear. They depend on the appliance's installation (on the options selected).

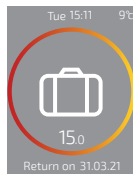
I go away



I set the start and end dates and times and the temperature for during my absence.



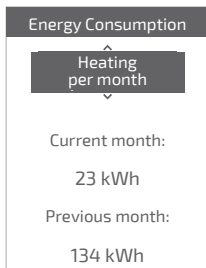
When Away Mode is in progress, the return date is shown on the home screen.



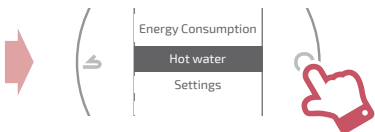
Certain parameters (or menus) may not appear. They depend on the appliance's installation (on the options selected).

Energy Consumption

From the menu, you can access the display of estimated Energy Consumption.



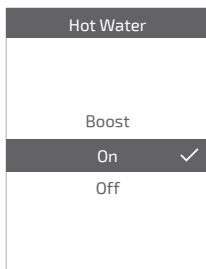
I control my hot water



I set the hot water to 'BOOST', 'On' or 'Off'.

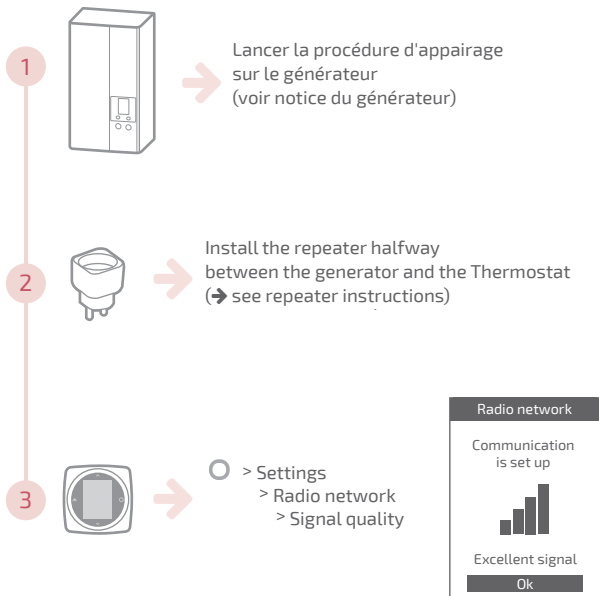


The 'BOOST' function is used to heat the whole hot water tank.



Certain parameters (or menus) may not appear. They depend on the appliance's installation (on the options selected).

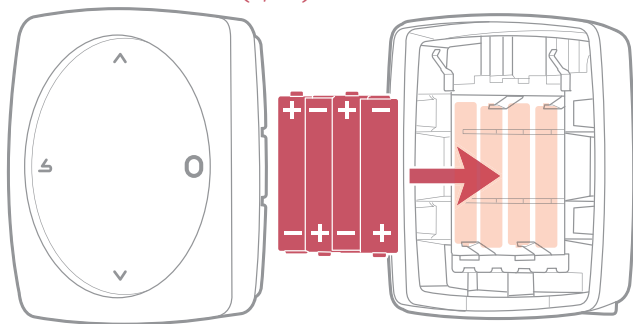
I add a Radio repeater



Battery replacement

Thermostat 228

4xAAA(1,5V) Alcaline ou NiMh



WARNING: for products powered by batteries: there is a risk of fire or explosion if the original batteries are replaced by batteries of an incorrect type or format (e.g. Alkaline > Lithium; AA(LR06) > AAA(LR03)).

Do not keep the battery in a very high temperature atmosphere or subject it to extremely low air pressure, which could cause an explosion or leaking of liquid or inflammable gases.

Main errors

Error	Description	Proposed action
G_XXXX	Generator error	Refer to the generator instructions.
Err 3	Temperature measurement error	Check the Radio signal quality and add a repeater if necessary If the error persists, contact your usual maintenance company
Err 13	Communication error between the thermostat and the generator	
---	Thermostat off, no response when button pressed.	Check the power supply of the thermostat (batteries) or the generator.


INSTALLATION

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Overview

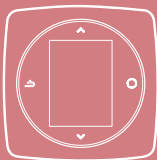
Specifications

	Thermostat 225 Connect	Thermostat 228 Radio-Connect
Power supply	12/24V _{dc} / 50mA	4xAAA (1,5V) alcaline ou NiMh
Communication with generator	Radio	
Operating temperature	0°C / +40°C	
Storage temperature	-20°C / +60°C	
Protection index	IP20 Indoor installation	
Installation	 Class III	
Pollution level	2 (environment with normal level of pollution)	
Type of action	1 (Generator's water start temperature regulation)	
Radio frequencies	Zigbee 3.0: IEEE 802.15.4 2.4GHz	



Here, the word 'generator' refers to a heat pump or a boiler, depending on the installation.

Box contents



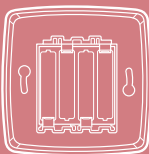
Thermostat 225 / 228



Wall bracket
(Thermostat 225)



Batteries
(Thermostat 228)



Wall bracket and
shelf
(Thermostat 228)



Instructions for
installation and use



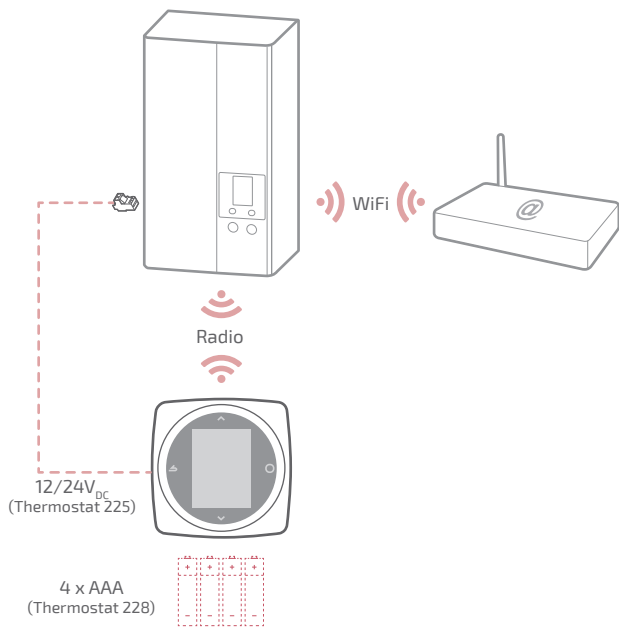
Ensure that all electrical power supplies have been cut off before starting work.

The electrical installation must be conducted in accordance with the prevailing regulations (in particular NF C 15-100 for France).

If the power cable is damaged, it must be replaced by the manufacturer, their after sales service or a qualified person, in order to avoid any danger.

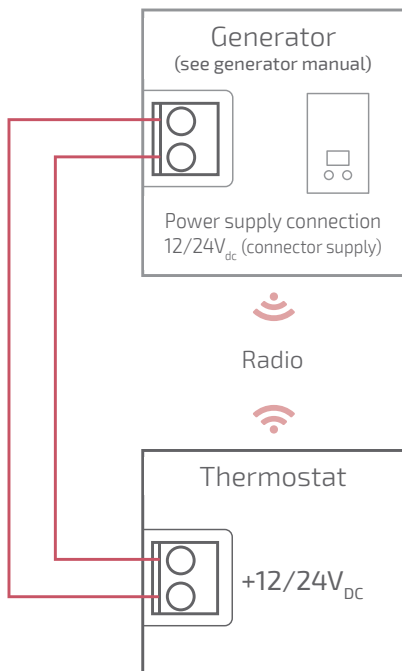


Installation



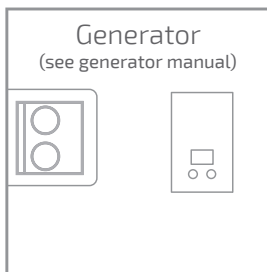
Wiring diagram

Thermostat 225

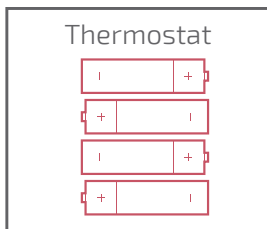


Wiring diagram

Thermostat 228

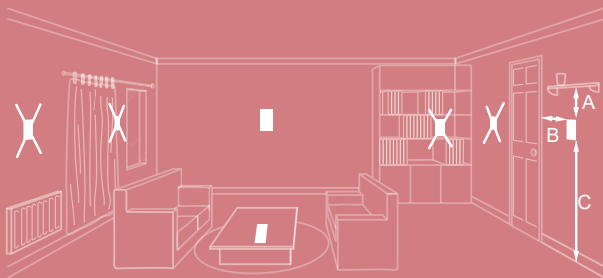


Radio



Installation of the thermostat

- The thermostat must be installed on a wall that is free from obstructions. It must be installed so as to be easily accessible.
- The 228 thermostat can be directly installed on a flat, horizontal surface.
- Comply with the following points:
 - Avoid the vicinity of electrical cables, strong magnetic fields or devices such as PCs, TVs, microwave ovens, etc.
 - Avoid proximity with large metal objects or construction components incorporating metal mesh (glass or special concrete, for example).
- The distance between the generator and the thermostat should not exceed 30m or 2 floors. Otherwise, the use of one or more repeaters may be necessary.
- Do not install the device inside a metal casing (heat pump or boiler).
- Avoid sources of direct heat (chimney, television, cooker, sunlight) and areas exposed to draughts (ventilation, doors).

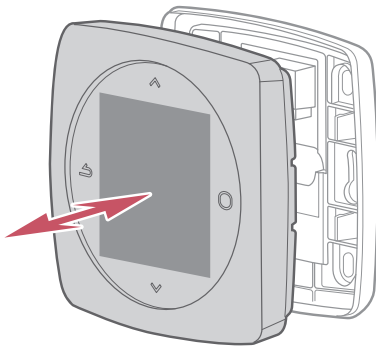


A : 10 cm

B : 20 cm mini

C : 150 cm

Opening / closure the thermostat

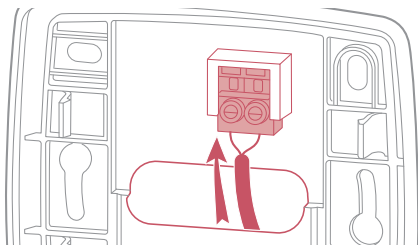


Thermostat 225

Connection

Type of cable:

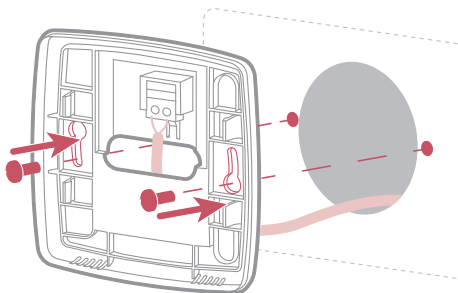
- Rigid, between 0.5 and 1.5 mm²
- Or flexible, between 0.5 and 0.75 mm² with rigid ends.



Wall mounting

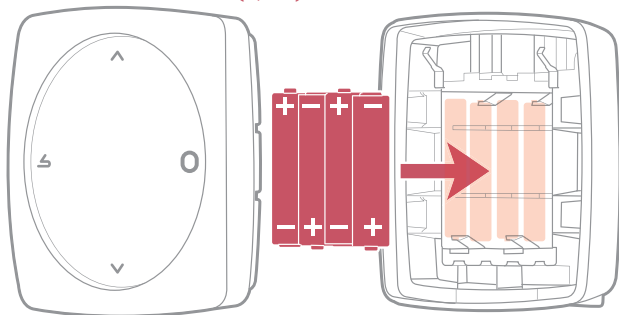
Attach the thermostat bracket using 2 screws (not included).

It can be directly mounted on the wall or in the flush-mounting box.



Thermostat 228

4xAAA(1,5V) Alcaline ou NiMh



WARNING: for products powered by batteries: there is a risk of fire or explosion if the original batteries are replaced by batteries of an incorrect type or format (e.g. Alkaline > Lithium; AA(LR06) > AAA(LR03)).

Do not keep the battery in a very high temperature atmosphere or subject it to extremely low air pressure, which could cause an explosion or leaking of liquid or inflammable gases.

Appliance start up

To complete the installation, Switch the generator back on to the power supply. The thermostat establishes communication with the generator, (see generator manual), indicates the radio signal quality and allows the following to be adjusted :

Language;

Date and time;

The transmitter type in the zone.



Configuration

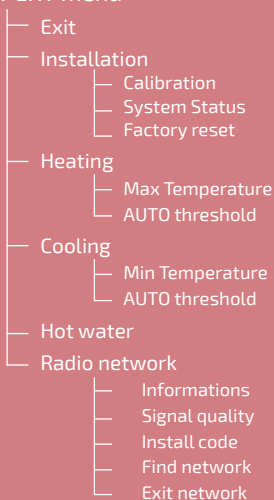
'Expert Menu' access

To access the 'Expert Menu', go to:

'Settings' > 'Software version'

Then press the  key 5 times

EXPERT menu



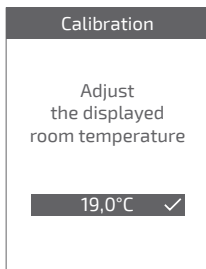
Certain parameters (or menus) may not appear.

They depend on the appliance's installation (on the options selected).

Installation

Calibration

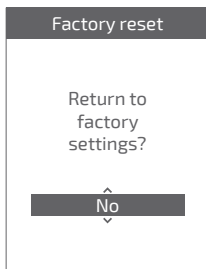
Used to correct the temperature measured by the thermostat.



Factory reset

The original factory settings can be restored.

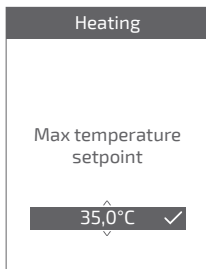
Your personalised settings and time programmes are then lost.



Heating/Cooling

Max Temperature

Define the max. heating temperature that can be set by the user.



Certain parameters (or menus) may not appear.
They depend on the appliance's installation (on the options selected).

Min Temperature

Define the min. cooling temperature that can be set by the user.

Cooling

Min temperature setpoint

10,0°C ✓

AUTO Threshold

When the average outdoor temperature from the last 24 hrs.:

- is higher than the temperature set in Heating: the regulator stops the heating, and vice versa
- is lower than the temperature set in Cooling: the regulator stops the cooling, and vice versa.

Heating

In Auto, outdoor temp to limit heating

24°C ✓

Hot water

May give the user access to the hot water control via the **Navilink 225 / 228**.

In the case of installation with 2 zones equipped with thermostats, set one of the thermostats to 'Disabled'

Hot water

Enable Hot Water menu on this thermostat?

Enabled ✓

Certain parameters (or menus) may not appear.
They depend on the appliance's installation (on the options selected).

Radio network

Informations

Gives the radio network status and technical information.

Signal quality

Gives the live Radio signal quality between the thermostat and the generator.

If the signal is weak, you can:

- Move the 228 thermostat by trying to bring it closer to the generator;

- Use a radio repeater (available from the After Sales Service catalogue) to improve network performances ([page 37](#)).



Install code

Gives the necessary information for pairing the thermostat with a new Radio network.

Depending on the type of equipment with which you would like to associate the thermostat, this information may be requested.



Certain parameters (or menus) may not appear.
They depend on the appliance's installation (on the options selected).

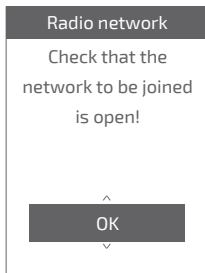
Find network

Used to remove Zigbee settings from the thermostat and to try and join a new Radio network.

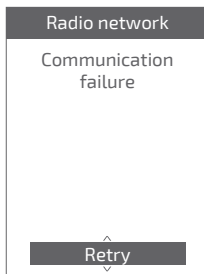
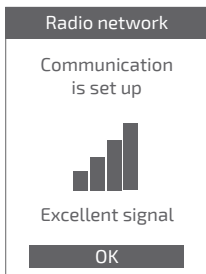
To join the new network, you have to open the generator network :

See generator manual.

Select 'OK': the thermostat tries to rejoin the new Radio network.



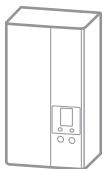
- If communication is established, the thermostat then operates normally.
- If communication is not established, the thermostat proposes that you 'Retry' or 'Exit'.



Certain parameters (or menus) may not appear.
They depend on the appliance's installation (on the options selected).

Radio network

Pairing a thermostat



Start pairing procedure
on the generator
(see generator manual)

1



Install the
thermostat

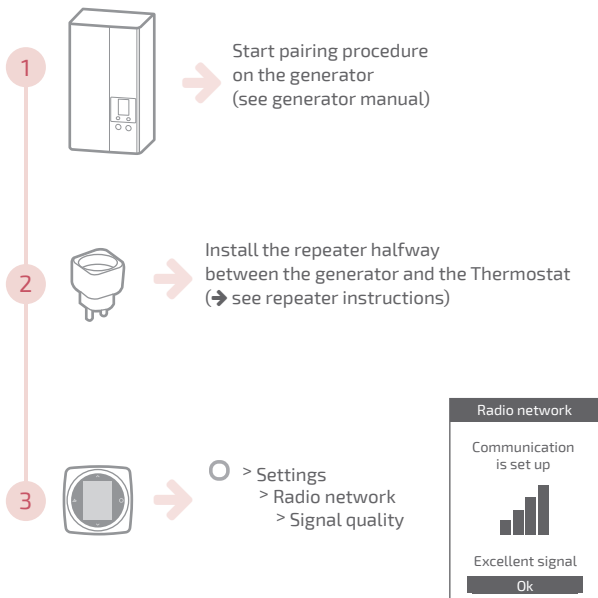
2

3

- EXPERT menu
 - > Settings
 - > Radio network
 - > Find network

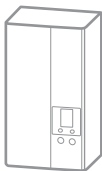


Adding a Radio repeater



Integration into existing Radio network

The existing radio network should be opened to accept the new equipment.



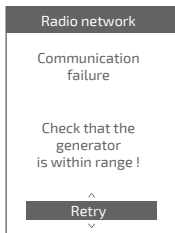
Generator connected to the existing Radio network



1

2

3



→ Exit

Pairing the thermostat
(see "*Pairing a thermostat*", page 36)

Main errors

Error	Description	Proposed action
G_XXXX	Generator error	Refer to the generator instructions.
Err 3	Temperature measurement error	Check the Radio signal quality and add a repeater if necessary (see <i>"Adding a Radio repeater"</i> , page 37) Reset the thermostat (see <i>"Factory reset"</i> , page 32). If the error returns, perform Radio pairing again (see <i>"Pairing a thermostat"</i> , page 36). If the error persists, contact the After Sales Service
Err 13	Communication error between the thermostat and the generator	Check the Radio signal quality and repeat the pairing if necessary (see <i>"Pairing a thermostat"</i> , page 36)
Err 15	Date/time error	Reset (Reset). If the error returns, contact the After Sales Service
---	Thermostat off, no response when button pressed.	Check the power supply of the thermostat (batteries) or the generator.



A series of 25 horizontal dotted lines for writing.

End of life



This unit is identified by this symbol. It means that all electrical and electronic products must not be included in household waste.

A specific recycling system for this type of product has been set up in European Union countries (*), Norway, Iceland and Liechtenstein.

Do not try to dismantle this product yourself. It may have damaging effects on your health or on the environment.

This unit must be recycled by a specialised service and in no case may it be thrown away with household waste, rubble or in a landfill.

Please contact your installer or local representative for more information.

* Depending on the national regulations of each member state.

Do not throw a battery onto a fire or into a hot oven, do not crush or cut the battery as this can cause an explosion.



A series of 25 horizontal dotted lines for writing.



A series of 20 horizontal dotted lines spanning the width of the page, intended for handwriting practice.

Société Industrielle de Chauffage
SATC - BP 64 - 59660 MERVILLE -
FRANCE

Date of commissioning:

Address of your
heating installer or customer service.



This appliance complies with:

- Low voltage directive 2014/35/EU, under standard EN 60335-1
- The EMC directive 2014/30/EU.