INSTRUCTIONS FOR INSTALLING AND USING

WIRELESS PROGRAMMABLE ROOM THERMOSTAT

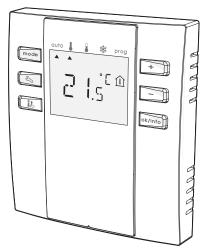


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OVERVIEW

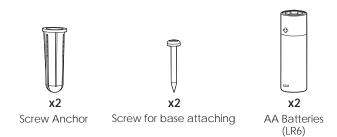
Thank you for choosing and congratulations on your purchase of our product.

This wireless programmable room thermostat has been designed to make your life easier and help you save energy and money. Easy to install and operate, it sends commands or information to the receiver. It thus enables you to control your heating system.

According to the installation setting, the programming can be adapted to a bathroom or a living room.

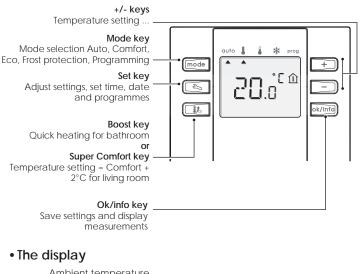
- In a living room, this programmable room thermostat enables you to program Comfort and Eco periods alternatively.
- In a bathroom, it enables you to program Boost periods i.e the bathroom heating and the quick drying of clothes or wet towels.

PACK CONTAINS



CONTROLS AND DISPLAY

• The keys

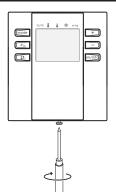


Ambient temperature measure Temperature and settings display area Low battery level indicator Mode selector indicator 5 Call for heat icon M Manual test indicator on max min Celsius or Fahrenheit degree Boost/Super Comfort mode Х 0 indicator Radio transmission indicator Set indicator Key lock indicator Minimum value indicator Maximum value indicator

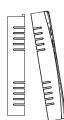
INSTALLATION

INSTALLING BATTERIES

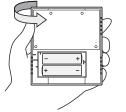
1- Then take out the screw under the device.



2- Remove the front cover.



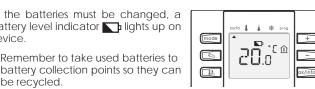
3- Turn over the front side and insert 2 batteries LR6. Note the correct polarity when inserting the batteries.



When the batteries must be changed, a low battery level indicator **the lights up on** the device

X

battery collection points so they can be recycled.



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X (II)

FIXING THE ROOM THERMOSTAT

Before attaching the device to the wall, check that the receiver is indeed within radio range of the room thermostat.

After having removed the front cover of the room thermostat, proceed in the following order:

- 1- Secure the base with the two screws provided using the horizontal and vertical holes
- 2-Put the front cover in place and tighten the screw under the device.

Recommended locations for your room thermostat:

To ensure that your room thermostat provides accurate readings and carries and controls effectively, it must be installed approximately 1.5 m above floor level on an inside wall, away from water sprays (IP20), direct sunshine and any other sources of heat or cold

such as TVs, lamps, radiators, cold draughts, etc.

NB: In order to ensure proper operation of the product, ensure that the room thermostat is not positioned near to an area which could be affected by interference from another source.

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E.g.: a mobile phone, a wireless transmitter or receiver, a TV screen, etc. Important: The room thermostat measures the temperature of the place where it is installed. It does not take into account the temperature differences that may exist between different locations in the house if the temperature is not uniform

QUICK SET UP

STAGE 1: CHOOSING THE APPLICATION

This room thermostat can be used in each room of your home. According to the use, needs are different:

- In a living room, i.e a dining room, a bedroom or a kitchen, this room thermostat enables you to weekly program, day by day, Comfort and Eco periods alternatively.
- In a bathroom, it enables to maintain a Comfort temperature and to weekly program, day by day, Boost periods i.e a temperature increase in the bathroom to heat or dry clothes or wet towels.

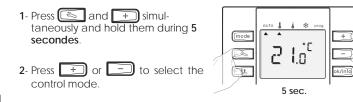
According to the kind of heating device or to the heating system controlled by the room thermostat, different types of controls are available:

- PID (TPI) = high accurate control mode (Time Proportional & Integral) specially adapted to heating systems with medium or high inertia (inertia radiators, electric or hydraulic under floor heating systems).
- ON/OFF = standard control mode adapted to low inertia heating systems (e.g. bathroom towel rails, radiant heaters, blowers).
- PIE = cannot be used in these applications with standard receivers, a special receiver is needed.

Thus

- For living rooms you can choose between the PID (TPI) and ON/OFF control mode
- For bathrooms the ON/OFF mode can be used only.

To select the type of control, proceed in the following order, from the Auto, Comfort, Eco or Frost protection mode:



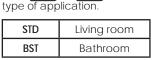
Save by pressing ok/info

Note: the PIE mode cannot be used in these applications with standard receivers, a special receiver is needed.

If the PID (TPI) control mode is selected, the room thermostat detects automatically that it is in a living room. Press ok/info the Auto mode.

If the ON/OFF control mode is chosen, you can select the type of application with the corresponding programming: living room or bathroom.

3- Press + or - to select the





4- Save by pressing or/info then press or/info several times to return to the previous active mode

STAGE 2 : PAIRING THE ROOM THERMOSTAT TRANSMITTER WITH A RECEIVER

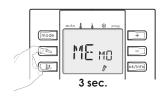
For pairing you need to make learning the code of the transmitter by the receiver

Important: Each time you change the control mode, you have to pair the room thermostat with the receiver in order to send the new control mode and the corresponding information to the receiver.

To switch the receiver in learning mode refer to receiver instruction manual then:

Radio transmission

1- On the room thermostat, press the button and hold it down for 3 seconds to carry out pairing. MEMO will be displayed.



2- Press ok/info). The room thermostat will then send a radiowave configuration message and the icon will be displayed briefly.



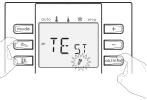
Manual test system

If you want to check the connexion between the room thermostat and the receiver, proceed as follow:

- 1- To access the Test Mode, press simultaneously.
- 2- Press the + button = the ON signal will be sent out.

Press the ____ button = the OFF signal is sent out

3- To exit the Test Mode, press mode or ok/info) briefly.



mod + 2 57

OPERATING

OPERATION MODE OVERVIEW AND SELECTION

Select the required mode by pressing [mode].

Mode description	Display
• Auto mode In a living room (excluding bathroom) the room thermostat will change automatically from the Comfort mode to the Eco mode according to the established programming (refer to programmes overview page 4). In a bathroom: the room thermostat will change automatically from the Comfort mode to the Boost according to the esta- blished programming (refer to modifica- tions of programmes page 4).	auto 1 1 prog
• Comfort mode The room thermostat will operate 24 hours a day to achieve the temperature which has been set (e.g. 20°C). Adjustable from 10°C to 30°C. Select this mode when you are at home.	auto 1 * prog
• Eco mode The room thermostat will operate 24 hours a day to achieve the temperature which has been set (by default 18°C). Adjustable from Comfort-1 to Comfort -5. Select this mode for short-term absences.	auto III Prog
• Frost protection mode The room thermostat will operate 24 hours a day to achieve the temperature which has been set (by default 7°C). Adjustable from 5°C to 15°C. Select this mode when	auto 🛔 🛊 prog

Important: The room thermostat measures the temperature of the place where it is installed. It does not take into account the temperature differences that may exist between different locations in the house if the temperature is not uniform.

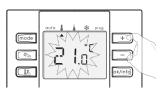
SETTING THE SETPOINT TEMPERATURE

Select the mode you want to set the setpoint temperature by pressing mode.

Using the + or buttons to set the temperature. Save by pressing ok/info.

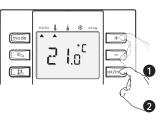
you will be away from your home for a

long time (more than 5 days).



TEMPORARY TEMPERATURE CHANGE

From the Auto mode, using the + or - buttons, set the temperature, save by pressing will be automatically cancelled at the next change of programme or transition to 0:00.



SUPER COMFORT FEATURE OR MANUAL BOOST

A] In a bathroom

•Manual Boost feature

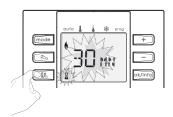
When in any operating mode, the *b* button enables you to quickly increase the temperature in the bathroom during a 30-minute period (this is the pre-set duration).

- First push on 💷

The desired (setpoint) temperature goes up to the maximum value for 30 minutes.

 Σ appears on the display.

Boost duration: The pre-set duration flashes for 1 minute. While this happens, you have the option of changing the boost period duration to any duration between 20 and 60 minutes, in increments of 10 minutes, by pressing + or . This change will be saved and will be effective for the next Boost periods.



After 1 minute, the Boost period countdown begins and the time runs down, minute by minute.

econd push on to push on mode: the Boost feature will be cancelled.

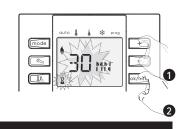
B] In a living room

Manual Super Comfort feature

This feature allows you to temporary increase the temperature up to 2°C compared to the setting temperature. The temperature increases during 30 minutes adjustable from 20 minutes to 2 hours in increments of 10 minutes.

To activate this feature, proceed as follow:

- 1- From the Auto, Comfort, Eco or Frost protection mode, press the button.
- 2- If needed, adjust the duration by pressing + or -.



PROGRAMMING

3- Save by pressing ok/info

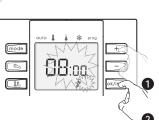
Setting the time and day

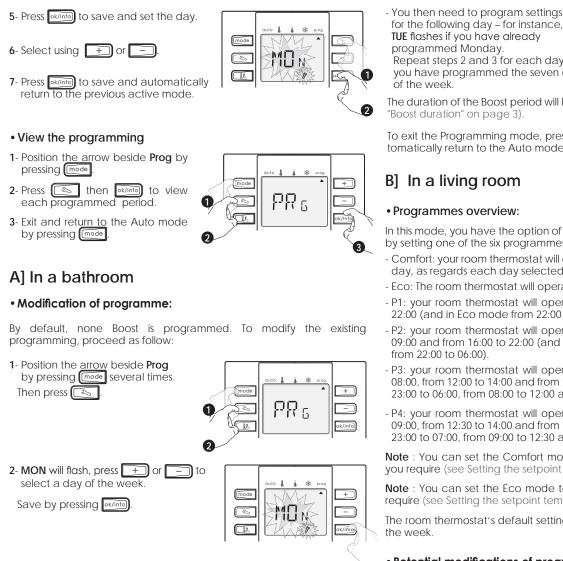
To set the time and day, proceed in the following order, from the Auto, Comfort, Eco or Frost protection mode:

1- Press 🔍

- 2- The two hour figures will flash. Select using + or -.
- 3- Save by pressing ok/info and set the minutes.

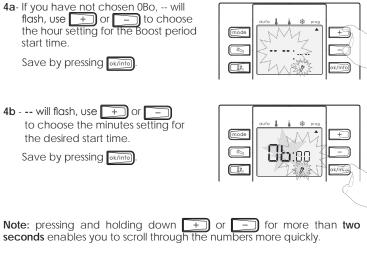
4- The two minute figures will flash. Select using + or 🖃





3- You can program one or two Boost periods each day or none at all if you do not want there to be any Boost periods on a certain day.

OBo will flash, use + or + to choose the number of Boost periods - 1Bo, 2Bo or OBo (one, two or no Boost periods). Confirm your choice by pressing ok/in

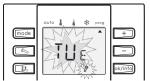


If you have chosen two boosts periods per day, the second time will be displayed. Repeat steps 4a and 4b.

mode	
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for the following day - for instance, TUE flashes if you have already

Repeat steps 2 and 3 for each day until you have programmed the seven days



The duration of the Boost period will be the last one you set previously (see

To exit the Programming mode, press [mode], the room thermostat will automatically return to the Auto mode.

In this mode, you have the option of programming your room thermostat, by setting one of the six programmes on offer for each day of the week.

- Comfort: your room thermostat will operate in Comfort mode, 24 hours a day, as regards each day selected.
- Eco: The room thermostat will operate 24 hours a day in Eco mode.
- P1: your room thermostat will operate in Comfort mode from 06:00 to 22:00 (and in Eco mode from 22:00 to 06:00).
- P2: your room thermostat will operate in Comfort mode from 06:00 to 09:00 and from 16:00 to 22:00 (and in Eco mode from 09:00 to 16:00 and
- P3: your room thermostat will operate in Comfort mode from 06:00 to 08:00, from 12:00 to 14:00 and from 18:00 to 23:00 (and in Eco mode from 23:00 to 06:00, from 08:00 to 12:00 and from 14:00 to 18:00)
- P4: your room thermostat will operate in Comfort mode from 07:00 to 09:00, from 12:30 to 14:00 and from 19:00 to 23:00 (and in Eco mode from 23:00 to 07:00, from 09:00 to 12:30 and from 14:00 to 19:00)

Note : You can set the Comfort mode temperature to the temperature you require (see Setting the setpoint temperature section page 3)

Note : You can set the Eco mode temperature to the temperature you require (see Setting the setpoint temperature section page 3).

The room thermostat's default setting is Comfort mode for all the days of

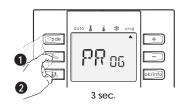
Potential modifications of programmes:

If the default time schedules for the P1, P2, P3 and P4 programmes do not suit your routines, you can change them.

If you modify the time schedules for the P1, P2, P3 or P4 programmes, the schedules will be modified for all the days of the week for which P1, P2, P3 or P4 had been set.

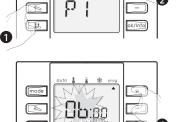
To modify P1, P2, P3 or P4, proceed as follow:

1- Position the arrow beside Prog by pressing (mode Then press and hold the 💽 button down for more than 3 seconds.



mode

- 2- Press + or to select the programme you want to modify. Save by pressing ok/info
- 3- The Comfort period start time will flash. Press + or - to modify Save by pressing ok/info
- 4- Press + or to modify the minutes of the Comfort period start time.



USER SETTINGS 5- The Eco period start time will flash. Press + or - to modify mode G. Save by pressing ok/int From Auto, Comfort, Eco or Frost 22 G 2 80 protection Modes, press s and simultaneously for **5 seconds** to 120 of + mo go into the user settings. Έ 6- Press + or - to modify the 2 -9 1.0 minutes of the Eco period start time. 1/20 ok/inf For P2, P3 and P4 programmes, repeat steps 3 and 4 as often as necessary. 5 sec. Allocation of programmes to the days of the week: User settings sequence: By default, the Comfort mode is programmed 24 hours a day and 7 days a week 21 Setting the temperature Choosing the language To allocate a Comfort, Eco, P1, P2, P3 or P4 programme to each day of unit the week, proceed as follow: 1- Position the arrow beside Prog by pressing mode several times 3 4 Setting the mini. setpoint Setting the max. setpoint temperature temperature Then press 💽 20 A9 Choosing the language 0 The pre-set user language for the room thermostat is French. You may choose from 4 different languages. 2- MON will flash, press + or - to choose a day of the week French Italian German English mode ENG FRA ITA DEU 2 Save by pressing ok/info Select the desired language with 1 +]) or [mode 3- Select Conf. Eco. Pl. P2, P3 or P4 to ΕN 13 -6 allocate it to the desired day. T-2- Save by pressing ok/info and return to the previous active mode ρ I 2 4- Save by pressing ok/info 120 You then need to program settings for the following day - for instance, TUE The following setting will be displayed: flashes if you have already program- \mathcal{O} med Monday. Setting the temperature unit Repeat steps 2,3 and 4 for each day until you have programmed the seven days of the week. The pre-set temperature unit is Celsius degrees. It is possible to change it To exit the Programming mode, press [mode], the room thermostat will and to select Fahrenheit degrees. automatically return to the Auto mode Viewing programmes you have selected: 1-Select the desired temperature unit with + or -See "View the programming" page 4. mode +0 <u>р</u>. CHILD SAFETY 2 12 y pressing and holding down 🕂 and for more than 3 seconds you can lock the room thermostat keypad and mode prevent changes to settings being made ЦΕК by young children. LOCK is displayed for 2- Save by pressing ok/info **1 second** and **a**ppears on the display. The following setting will be displayed: If you press and hold these buttons down a second time for more than 3 seconds the room thermostat keypad will be unlocked and Setting the maximum setpoint temperature goes off. VIEWING THE SETPOINT TEMPERATURE It is possible to stop the desired temperature from being set to a value in excess of a maximum temperature - this is the maximum desired (or setpoint) temperature. It is not possible to set the desired temperature to Your room thermostat displays the temperature in the room all the time. a value in excess of this limit. 1- Press ok/info) to view the 2- Press the ok/info button a second time or wait 6 seconds to view temperature you have set on 1-To change the maximum temperayour room thermostat. the ambient temperature ture setting, press 🕂 or measured: mode T 23.0 (2)

2- Save by pressing ok/info

mode

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Note: if no buttons are pressed, the room thermostat will automatically

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return to active mode after 6 seconds.

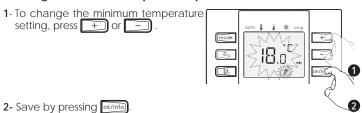
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The following setting will be displayed:

Setting the minimum setpoint temperature



3- Press mode to return to the previous active mode.

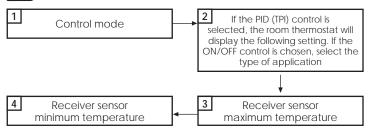
Tip: if the maximum and minimum desired (setpoint) temperatures are set to the same value, the desired temperature will be locked.

User settings overview

Language	FR, ENG, IT or DEU
Temperature unit	° C or °F
Maximum set of Comfort setting temperature	30°C ; [15 to 30] by intervals of 1°C
Minimum set of Comfort setting temperature	10°C ; [10 to 19] by intervals of 1°C

INSTALLER SETTINGS

From Auto, Comfort, Eco or Frost protection Modes, press 💽 and + simultaneously for 5 seconds to go into the Installer settings.



The following setting will be displayed:

Choice of control type:

This room thermostat can be used in each room of your home. According the use, needs are different:

- In a living room, i.e a dining room, a bedroom or a kitchen, this room thermostat enables you to weekly program, day by day, Comfort and Eco periods alternatively.
- In a bathroom, it enables to maintain a Comfort temperature and to weekly program, day by day, Boost periods i.e a temperature increase in the bathroom to heat or dry clothes or wet towels.

According to the kind of heating device or to the heating system controlled by the room thermostat, different types of controls are available:

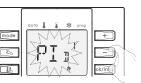
- PID (TPI) = high accurate control mode (Time Proportional & Integral) specially adapted to heating systems with medium or high inertia (inertia radiators, electric or hydraulic under floor heating systems).
- ON/OFF = standard control mode adapted to low inertia heating systems (e.g. bathroom towel rails, radiant heaters, blowers).
- PIE = cannot be used in these applications with standard receivers, a special receiver is needed.

Thus

- For living rooms you can choose between the PID (TPI) or ON/OFF control mode
- For bathrooms the ON/OFF mode can be used only.

To select the type of control, proceed in the following order, from the Auto, Comfort, Eco or Frost protection mode:

1- Press - or - to select the control type



Note: the PIE mode cannot be used in these applications with standard receivers, a special receiver is needed.

2- Save by pressing ok/info

The following setting will be displayed

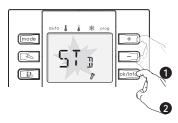
Type of application

If the PID (TPI) control mode is selected, the room thermostat detects automatically that it is in a living room. The following setting will be displayed

If the ON/OFF control mode is chosen, you can select the type of application with the corresponding programming: living room or bathroom.



Bathroom



2- Save by pressing ok/info

BST

The following setting will be displayed.

This feature can be used with special receivers only. They have an additional sensor which enables to control the temperature of a wall for instance

Temperature limit of the receiver sensor:



Check that your room thermostat is connected to a receiver which has an additional sensor compatible with this room thermostat. If not, do not use this setting.

The following setting will be displayed :

1- To change the maximum temperature setting, press + or . The maximum setting is preset to 70°C. You can adjust from 30°C to 70°C by intervals of 1°C

mode N	auto I i i prog	F
		ok/info

2- Save by pressing ok/info

3- To change the minimum temperature setting, press + or -. The minimum setting is preset to 10°C. You can adjust from 10°C to 70°C by intervals of 1°C



4- Save by pressing ok/info and return to the previous active mode.

Installer settings overview

Minimum

Control mode	PID (TPI) - ON/OFF	
Type of application (if the ON/OFF control is selected)		
STD	If the room thermostat is used in a living room (excluding bathroom)	
BST	If the room thermostat is used in a bathroom	
Temperature limit of the receiver sensor		
Maximum	70°C ; [10 ; 70] by intervals of 1°C	

Important: Each time you change the control mode, you have to pair the room thermostat with the receiver in order to send the new control mode and the corresponding information to the receiver.

10°C ; [10 ; 70] by intervals of 1°C

EXPERTS SETTINGS

From Auto, Comfort, Eco or Frost protection Modes, press in and simultaneously for **5 seconds** to go into the Experts settings

1 Maximum ambient temperature setting for the	Ambient sensor calibration
automatic stop of the Boost(*)	↓
	2 ON minimum dumption

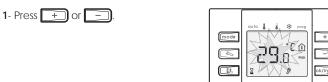
ON minimum duration setting (**)

(*) If the ON/OFF mode and BST are selected (**) If the ON/OFF mode is selected.

Maximum ambient temperature setting for the automatic stop of the Boost:

For safety reason, when the Boost is enabled and the ambient temperature reaches a maximum temperature limit, the Boost stops automatically. This temperature limit is preset at 30°C, you can adjust it from 20°C to 30°C by intervals of 1°C

To modify the maximum ambient temperature, proceed as follow:



2- Save by pressing ok/info

The following setting will be displayed, if the ON/OFF control mode has been selected:

Important: This operation is reserved for professional installers only; any wrong changes would result in control anomalies.

Ambient sensor calibration

In which cases? If the temperature measured in a room (measured by a reliable thermometer) is different of at least 1°C compared to the setpoint temperature of the room thermostat.

The calibration adjusts the temperature measured by the ambient temperature sensor to compensate for a deviation from + 3°C to - 3°C by increments of 0.1°C

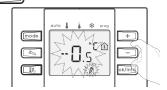
IMPORTANT: Before carrying out the calibration it is recommended to wait for 4h after a setpoint temperature modification to insure that the ambient temperature is stabilized.

To modify the measured temperature correction value, proceed as follow:

- 1-The display indicates to you the measured temperature correction value (which is 0 by default)
- 2- There are two possibilities:
- 2.1- If the room temperature difference is negative, example:

Setpoint temperature (what you want) = 20°C. Ambient temperature (what you read on a reliable thermometer)= 19,5°C

Difference mesured = -0,5°C. Decrease the temperature measured by the ambient temperature sensor by 0.5°C by pressing



	auto 🌡 🧯 🕸 prog
mode	
	ok/info

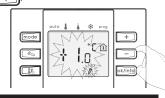
2.2- If the room temperature difference is positive, example:

Setpoint temperature (what you want) = 19°C

Ambient temperature (what you read on a reliable thermometer)= 20°C

Difference mesured = +1°C.

Increase the temperature measured by the ambient temperature sensor by 1°C by pressing +



- 3- Press ok/info to save the new value and to return to the Auto mode.
- 4- If the ON/OFF control mode is used, the following setting will be displayed.

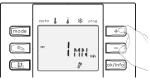
Note: In case of doubt on the modifications carried out, if you want to reset the device to the default factory settings, follow instructions "Restore to factory settings" (see page 7).

ON minimum duration setting

This setting enables you to avoid unintentional triggerings and optimize the lifetime of the integrated relay in the receiver.

E.g

- From 1 to 2 minutes for a low inertia system (a blower).
- 3 minutes for a medium inertia system (radiant panel heater).
- 5 minutes for a high inertia system (under floor heating system).
- 1- Press + or (by default, the value is preset at 1 minute, you can adjust it from 1 minute to 5 minutes by intervals of 1 minute).



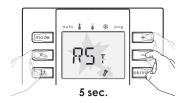
2- Press oking to save and to return to the previous active mode.

Expert settings overview

Maximum ambient temperature setting for the automatic stop of the Boost	30°C ; [20 ; 30] by intervals of 1°C
Measured temperature correction value	0°C ; [-3 ; +3] by intervals of 0,1°C
ON minimum duration setting	1 min ; [1 ; 5] by intervals of 1 minute

RESTORING FACTORY SETTINGS

To restore factory settings and cancel programmed periods press the and ____ buttons and hold them down for 5 seconds.



- Save by pressing ok/info

The settings will be the same as the bold values indicated in the overview tables (refer to pages 6 and 7).

Important: after restoring factory settings you have to select the application and pair the room thermostat with the receiver (refer to page 2).

TROUBLESHOOTING

Batteries are used or inadapted.

- Replace the 2 batteries. Only use alkaline 1.5V LR6 batteries. Do not use rechargeable batteries.

The heating does not come on or does not go off.

- Your room thermostat may have been set up close to a source of heat or on a cold wall – put it in a recommended location (see the "Installing" section on page 2 for these locations).
- No power supply to the receiver: check the fuse and the circuit breaker.

The room temperature is lower than the required temperature

- See Experts settings chapter, Ambient sensor calibration (page 7).

Radio transmission is not working properly:

- 1- The receiver is not picking up the code sent by the emitter. - Replace transmitter's batteries.
- 2- The receiver does not recognize transmitter's code.
 Pair the room thermostat transmitter with a receiver again (page 2).
- 3- The receiver or the transmitter is affected by interference:
- Move the emitter out of the affected area.
- Try to move away the receiver or the source of the interference

The super Comfort or Boost didn't start:

- Check the Super Comfort or Boost duration (refer to the Boost duration section page 3).
- Check programming refer to the "Viewing programmes" section (see page 4).
- Check that the time and the day have been correctly set on your programmable room thermostat refer to the "Viewing day and time settings"section (see page 2).
- Check that the kind of application has been correctly set (see page 2).

If the problem persists, contact your installer.

TECHNICAL SPECIFICATIONS

Power supply: 2 alkaline 1.5 V LR6 batteries. Battery life: approx. 2 years.

Maximum range in the home: 15m to 20m is typical but this varies depending on the equipment being used in conjunction with the appliance (the appliance's range can be adversely affected by the way in which a system is set up and by the surrounding electromagnetic environment. Signal sending: every 10 minutes, maximum time-lag 1 minute after setpoint temperature has been changed.

Environment:

- Operation temperature: from 0°C to +50°C.
- Manual temperature setting range: from +5°C to +30°C.
- Storage temperature: from -10°C to +50°C.
- Humidity: 80% to +25°C (without condensation).
- Protection rating: IP20.

N.B.: this room thermostat is one part of a complete radio system and will only work with the 230V AC receivers. Radio emitter, frequency 868.3 Mhz. Can be used throughout Europe.

Manufactured by: IMHOTEP création FRANCE (contact@imhotepcreation.com)

EU declaration of conformity: We hereby declare under our sole responsibility that the products described in these instructions comply with the provisions of Directives and harmonized standards listed below:

- RED 2014/53/EU:
- Article 3.1a (Safety): EN62311;
- Article 3.1b (EMC): ETSI EN301489-1 / ETSI EN301489-3;
- Article 3.2 (RF): ETSI EN300220-1 / ETSI EN300220-2;

- ROHS 2011/65/EU: EN 50581; and are manufactured using processes that are certified ISO 9001V2008.

The on the product indicates that you must dispose of it at the end of its useful life at a special recycling point, in accordance with European Directive WEEE 2012/19/EU. If you are replacing it, you can also return it to the retailer from which you buy the replacement equipment. Thus, it is not ordinary household waste. Recycling products enables us to protect the environment and to use less natural resources.

PRODUCTS CODES

The products described in this instruction manual are our conventional solutions, which are feasible and available.

Codes	References
RHDRFPRIMHA	Wireless digital programmable room thermostat

We also have a wider range, designed using products developed by us. Products can be customised (e.g. as regards style, features) upon request Please contact us as regards any projects you may have.



IMHOTEP création

ZI Montplaisir - 258 rue du Champ de Courses 38780 Pont-Evêque - France Tél. : + 33 (0)4 74 58 39 56 Fax : + 33 (0)4 74 58 39 57 E-mail : contact@imhotepcreation.com



INSTRUCTIONS FOR INSTALLING AND USING

1 CHANNEL ON/OFF RF RECEIVER

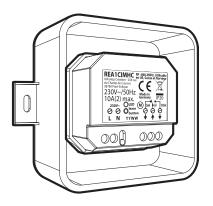


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OVERVIEW

We would like to thank you for your confidence and congratulate you for choosing one of our products.

This one-channel radio receiver has been designed for use with room thermostats and with programmable room thermostats.

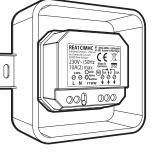
The thermostat communicates with the receiver by means of a wireless link which employs radio signals.

The receiver is equipped with a voltage-free relay output with a doublethrow contact.

DIAGRAM

Light : Indication of the status of the pairing with a room thermostat

> Button : Pairing mode button for pairing with a room thermostat



REA1CIMHC RF: 868 en UE. S Imbotep Création - 258 rue du Champ de Courses 38780 Pont-Evèque 230V~/50Hz 10A(2) max

33780 Pon-230V~/5U⊓∠ 10A(2) max. 230V~ OLED bearn Bearn

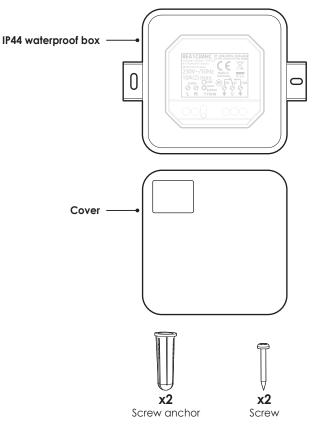
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IP20

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NOMENCLATURE ACCESSORIES



OPERATING

PAIRING WITH A ROOM THERMOSTAT

To configure your equipment you need to get the receiver to register the code emitted by the thermostat, which sends "Switch On" and "Switch Off" commands to it.

Note: The receiver can only be paired using a single code from a single receiver. You therefore have to link the REA1C receiver to a programmable room thermostat or to a non-programmable room thermostat.

The set-up procedures must be carried out by a qualified professional installer.

Pairing with a digital room thermostat

A-Learning

On the receiver, press and hold down the 1-Memo button for about 5 seconds until the light flashes. If you make a mistake, press and hold down the button again for about 5 seconds to stop the procedure.

UnD 5 sec.

- 2- On the emmitter, set the desired temperature to the maximum and then, transmit a radio pairing signal (to perform these operations, refer to the instruction manaul of the device in question).
- 3- When the receiver gets this message, the red light on the 1 channel receiver switches off.A link between the analogic room thermostat and the receiver has been created successfully.



Deleting the memorised code : Press and hold down the Memo button for at least 10 seconds. The automatic mode sequence which then takes place is described below:

- After 4 seconds, the LED light starts to flash and the Pairing Mode starts up.
- After 8 seconds, the LED light flashes more quickly and the Deletion Mode starts up.
- 10 sec. After 10 seconds, the LED light goes off and the contact goes back to the at rest (or quiescent) status and the receiver will no longer recognise the emitter.

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B- To check that a link between the room thermostat and the receiver has been successfully set up

NB: Before carrying out the verification task, be very sure that the digital room thermostat is positioned at its definitive location.

a) : If it is a Programmable or an Analogic room thermostat

- 1- If the receiver's light turned back on after you finish the pairing, it means that the heating is already running, go to step 4.
- 2- On the transmitter, set the desired temperature to the maximum and then, transmit a radio pairing signal (to perform these operations, refer to the instruction manaul of the device in question).
- 3- When the receiver gets the message, the red lights goes on, the receiver switches on.



4- On the thermostat, set the desired temperature to the minimum and then, transmit a radio pairing signal (to perform these operations, refer to the instructions manual of the device in question).

The red lights goes off, the receiver switches off.

Your thermostat is been successfully paired with the receiver. If not, please do the pairing again.

b) : If it is a digital room thermostat

 On the digital room thermostat, enter to "Manual test system" and send a "On" signal to the receiver.

To perform these operation, refer to the instructions manual of the device in question.

You should be able to hear the contact switching.

On the receiver, the indicator lights goes on.



2- On the digital room thermostat, switch to "Off" (to perform these operation, refer to the instructions manual of the device in question).

You should be able to hear the contact switching.

On the receiver, the light indicator switches off.

3- On the room thermostat, get out from the "Manual test system" (To perform these operation, refer to the instructions manual of the device in question).

A link between the digital room thermostat and the receiver has been successfully created. If not, re-start pairing.

MANUAL TEST OF THE RECEIVER OUTPUT

You can test temporarily the receiver output operation using the button.

Press the button briefly, you can reverse the state of the output contact, **ON** (red light goes on) or **OFF** (red light goes off).

The receiver output will be reversed by another command coming from your thermostat.



INSTALLATION AND WIRING

Wall mounting or built-in

2 fitting options:

- Wall mounting, in the IP44 waterproof box (supplied), beside or under the heating appliance which it is to control.
- Fitting in a built-in IP20 box (not supplied), near to the appliance which it is to control, protected from splashes of water.



· Connecting up your receiver

Before connecting any cables, switch the receiver off using the control circuit breaker or the control fuse in the power supply circuit. The receiver must be connected up by a qualified professional installer. Protect the power supply circuit by using a safety device - a circuit breaker or a fuse - in compliance with the applicable installation standard for the type of system installed.

Capacity of terminals: 0.75 mm² to 2.5 mm². Preferably use wires with a maximum cross-section area of 1.5mm².

Stripping the cable:



Connect the cables in the following order:

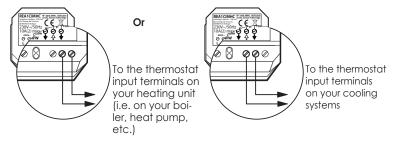
230V~ Power supply	Terminals
Life	0 L
Neutral	ØN

Output to heating equipment:	Terminals
Break contact	Ø 5A ♥
Joint	⊘µ ⇔
Make contact	⊘10A ♦

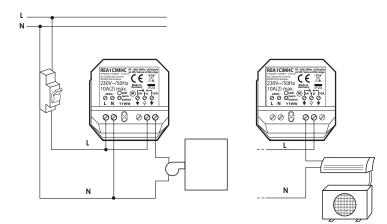
1- Heating and cooling systems: controlled by voltage-free

contacts

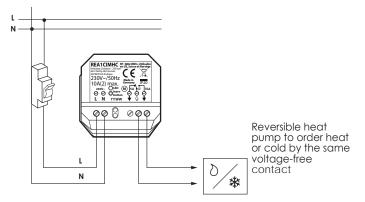
If your boiler or cooling systems has a two-terminal input, first remove the shunt between the terminals, and then connect the two wires coming out of your receiver as follows:



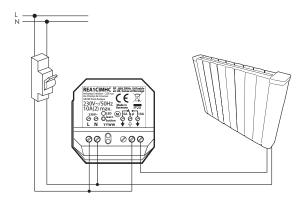
2- Heating and cooling systems: controlled by voltage-free contacts



 Heating and cooling management systems (reversible heat pump) controlled by voltage-free contacts.
 Applications: Reversible heat pumps.



Application: Electric heating system



IN CASE OF POWER SUPPLY SHUT DOWN

When the mains power returns, the contact goes back to the status it was in before the power cut.

TROUBLESHOOTING

The receiver is not working:

- No power supply to receiver: check the circuit breaker or the fuse in the power supply circuit.
- Check the batteries in the thermostat to which it is linked.
- Another emitter may be causing inference which is preventing the link between the thermostat and the receiver from working properly.

Loss of the radio (wireless) link between the receiver and the emitter:

- After more than 3 hours, the red LED light will start flashing non-stop and the next cycle starts – the contact switches to the ON status (i.e. closed between terminals 2 and 3) for 1 minute and then switches to the OFF status (i.e. closed between terminals 1 and 2) for 9 minutes.

You are not satisfied by the radio communication:

- 1- The One Channel ON/OFF receiver doesn't get radio signal any more. a- Delet the memorised code (see page 1).
- b- Do the pairing again (see page 1).
- 2- Failure of the pairing between the one channel ON/Off receiver and the Room thermostat.
 - a-Delete the memorised code (see page 1).
 - b-Do the pairing again (see page 1).
- 3- Radio wave interference is affecting the One channel ON/Off receiver or the room thermosat (e.g. from amateur radio, from a TV screen, etc.):
- Move the emitter away from the area being affected by interferences.
 Try to move the One channel ON/Off receiver or the source of the interference.

If the problem persists, contact the After-Sales Service Department.

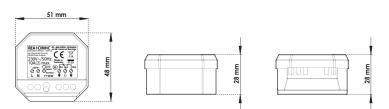
TECHNICAL SPECIFICATIONS

Power supply: 230V AC +10/-15%, 50 Hz.

Voltage-free double-throw output relay: 5A between terminals 1 and 2 ; 10 A between terminals 2 and 3 (out of the resistive load) 230V.

Footprint:

- Control panel: 51 x 48 x 28 mm.



Environment:

- Operation: 0°C to +50°C.
- Storage: : -20°C to +60°C.
- Humidity: 80% to 25°C (without condensation).
- Class II.
- Protection rating IP44 when installed in the box provided (EN 60529).

Radio receiver, frequency 868.3 MHz. Can be used throughout Europe.

Manufactured by IMHOTEP création FRANCE (contact@imhotepcreation.com).

Compliance declaration : we hereby declare under our sole responsibility that the products described in these instructions comply with the provisions of Directives and harmonized standards listed below: - RED 2014/53/EU:

- Article 3.1a (Safety): EN60669-1 / EN60669-2-1/ EN62311;
- Article 3.1b (EMC): ETSI EN301489-1 / ETSI EN301489-3 ;
- Article 3.2 (RF): ETSI EN300220-1 / ETSI EN300220-2 ;
- ROHS: EN50581;

and are manufactured using processes that are certified ISO 9001 : 2008.

The logo, on this product indicates that it must be taken, at the end of its life cycle, to a special collection centre, in accordance with Directive WEEE 2012/96/EC. The product must not be treated as normal household waste. If you are replacing it you may also return it to your distributor. Recycling equipment in this way enables us to preserve our environment and to use fewer natural resources.

PRODUCT CODES

The products in this list relate to conventional and available solutions.

Codes	Références
REA1CIMHC	One-channel On/Off receiver

We also have a wider range designed from products developed. Product customization (design features) possible. Please contact us.

IMHOTEP création

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