



INSTRUCTIONS FOR INSTALLING AND USING

Thermotech

IQ Room RADIO ROOM THERMOSTAT 67940 (WHITE) 67942 (BLACK)

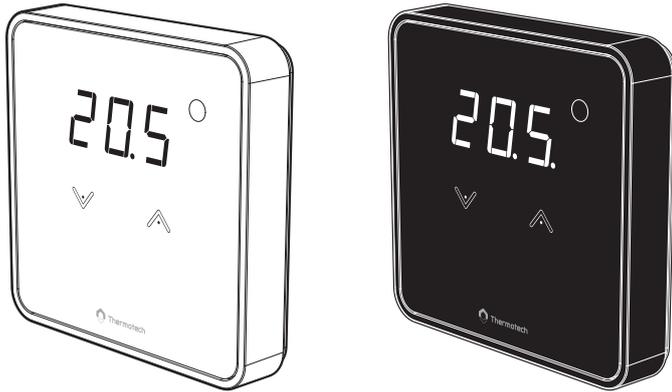


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OVERVIEW

Thank you for the trust you have placed in us and congratulations on choosing one of our products. The radio room thermostat is extremely easy to install, has an innovative design, and is ergonomic. It has been designed to make your life easier and to help you to save money on your heating bills. It displays the room temperature and adjusts the temperature of the zone to which it is paired.

PACK CONTAINS



x1
Thermostat



x2
AAA batteries



x2
Screw anchors



x2
Screws for base mounting

SYSTEM OVERVIEW

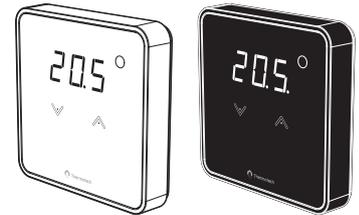
The system consists of different components divided into 3 groups:

1- IQ Room

The room thermostats transmit the setting temperature, the ambient temperature and the battery status to the central control unit via radio waves. Based on this information and a number of other parameters, the central control unit will optimise the opening and closing of the valve of the relevant circuit in order to achieve the desired room temperature.

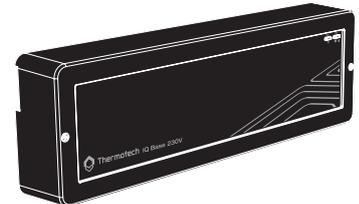
Each room (or zone) can be assigned 1 to 12 channels depending on the remaining availability on the control unit. Depending on the number of channels available on the central controller, up to 12 room thermostats can be linked to the central controller.

Example: room thermostat 1 = channel 1; room thermostat 2 = channel 2; room thermostat 3 = channel 3 and channel 4...



2- IQ Base

The control unit for underfloor heating/cooling is compatible with the transmitters presented above. It regulates the whole installation in heating or cooling according to the orders it receives.



3- IQ Home

The mobile application communicates via Bluetooth with the control unit. It allows you to transmit the setting temperature room by room, to change the current mode (Comfort, Eco, Frost protection), to select the cooling or heating mode and to modify the parameters of the thermostat and the associated channel. It can also be used to pair a thermostat and be alerted in case of an unexpected event on one of the thermostats/channels.



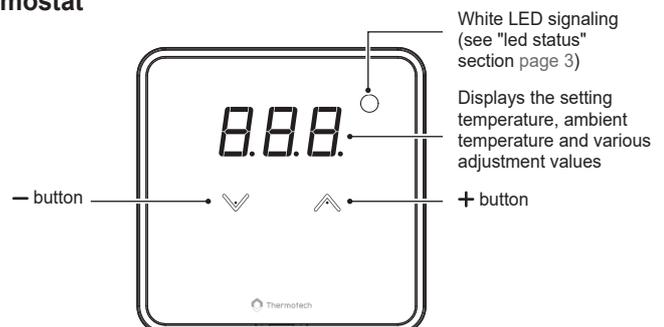
Note: The mobile application can be associated with up to 3 control units.

If you want to start a new installation but you already have 3 control units associated with your mobile application, you must first delete the information from at least one of the existing installations in order to start the new installation.

To do this, go to the settings of your mobile application and click on "Start a new installation".

CONTROLS AND DISPLAY

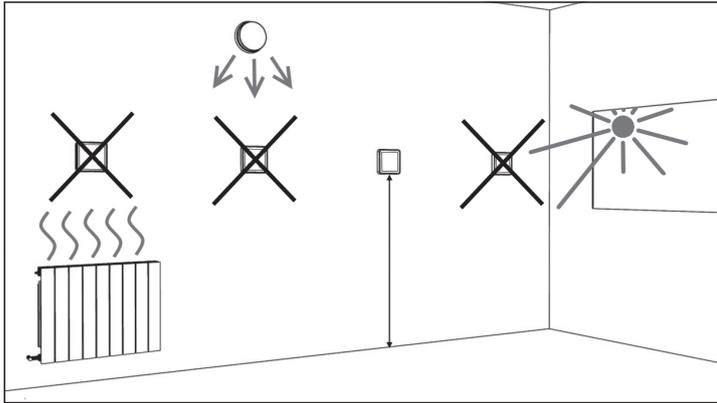
• Thermostat



INSTALLATION

Recommended locations for your thermostat.

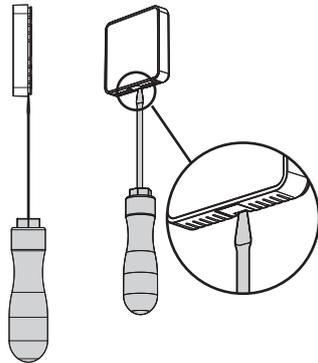
To ensure that your thermostat provides accurate readings and controls effectively, it must be installed approximately 1.5 m above floor level on an inside wall, away from direct sunshine and any other sources of heat or cold such as radiators, cold draughts, etc.



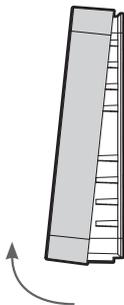
Important: The thermostat measures the temperature of the place where it is installed. It does not take into account the temperature differences that may exist between different locations in the house if the temperature is not uniform.

INSTALLING BATTERIES

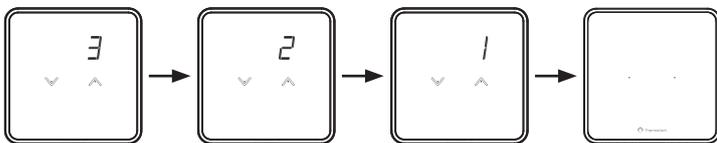
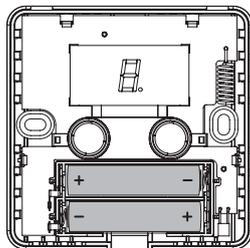
1- Press on the clip with a finger or a flat screw driver under the thermostat.



2- Remove the front housing from the thermostat.



3- Insert the 2 supplied batteries. Note the correct polarity when inserting the batteries.

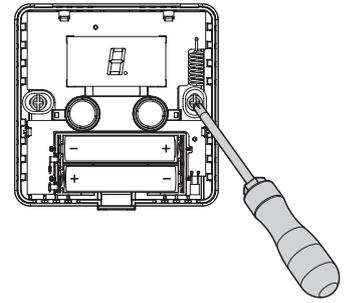


IMPORTANT: Sensitive touch calibration is automatically done after battery installation or replacement and the front cover has been closed. To do this, put the front housing back in place, then the thermostat start the calibration, screen display a countdown. Do not touch the up & down button during the process until screen turns off and back on.

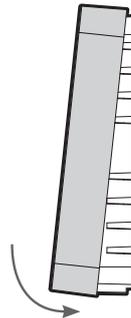
MOUNTING OF WALL MOUNTING PLATE

The radio room thermostat is fixed on the wall with the rear housing of the product.

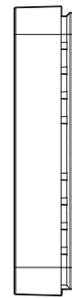
1- After installing the batteries, secure the wall plate with the two screws provided using the horizontal holes.



2- Replace the front housing of the thermostat on the wall mounting plate.



3- Thermostat secures itself by closing completely the front cover and hearing "Click".



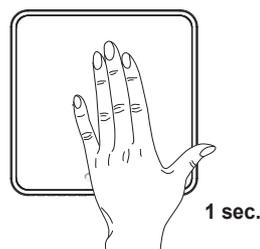
Click!

RADIO PAIRING/UNPAIRING

• **Radio pairing: linking the thermostat to the control unit and mobile application**

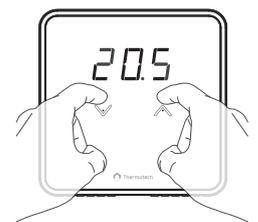
1- **Activate thermostat**

Short press on the screen with your hand.



2- **Access to Radio pairing**

From main screen, press ∇ & \blacktriangle simultaneously (> 5 seconds). The LOC screen will appear, hold down the ∇ and \blacktriangle buttons until the pairing screen appears.



3- **Launch the Radio pairing**

When this screen appears, release the buttons. The pairing process starts (movement of the display).



4- **Launch the pairing on the application**

Go on your mobile application to launch the radio pairing and follow the instructions on the screen.



5- Radio pairing complete
YES appears on the display when the pairing process is complete.



6- After 4 seconds back to the main screen. The ambient temperature appears.



• Thermostat identification

If several thermostats are associated with the control unit, you can easily locate them. To do this, start identification from the mobile application, in the "control unit parameters" section. Then the corresponding number(s) will be displayed on the thermostat(s). In the example: 1 (identification) 2 = thermostat number 2.

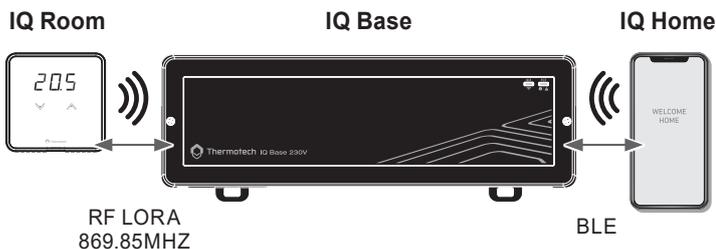


• Radio unpairing

To cancel the radio pairing between the thermostat, the control unit and the mobile application, see the advanced settings page 4, Radio unpairing section.

GENERAL INFORMATION

- 1- Before setting up your product, please download and launch the mobile application to follow the instructions.
- 2- To save a changed value press and simultaneously.
- 3- Two fast flashes means the value is saved.
- 4- A flashing value means that the value can be changed (a changed value will automatically be saved within 4 seconds).



OPERATING

LED STATUS

Wireless communication	LED is blinking fast
Heat demand	LED is fixed ON, only when the display is on
Low battery detection	LED is blinking: Double blink every 5 minutes from 7:00am to 9:00pm
Leakage sensor detection given by UFH	LED is blinking: Double blink every 5 minutes from 7:00am to 9:00pm
T° sensor failure detection	LED is blinking: Double blink every 5 minutes from 7:00am to 9:00pm

TEMPERATURE SETTING

		Comfort	Eco	Frost protection
Heating mode	Default	20°C	16,5°C	12°C
	Min.	7°C	5°C	5°C
	Max.	30°C	22°C	20°C
Cooling mode	Default	26°C	28°C	NC
	Min.	7°C	8°C	NC
	Max.	30°C	38°C	NC

The temperatures are adjustable by intervals of 0.5°C.

To set the setting temperature, from main screen, press shortly on or buttons and then press again on or buttons until the desired temperature is reached.

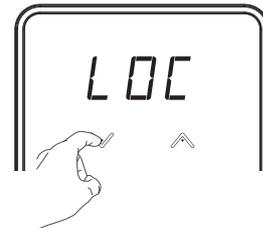
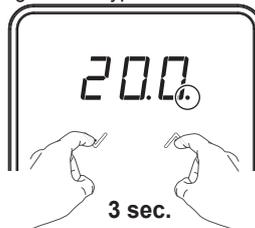


CHILD LOCK

• Keypad lock

To lock the keypad, press the and buttons and hold them for **3 seconds**. LOC (lock) and ON (activation) appear briefly on the display and a dot appears after the last digit. The keypad is locked.

If a button is pressed, LOC appear on the display for 2 seconds to indicate that the keyboard is locked and that the temperature cannot be modified.



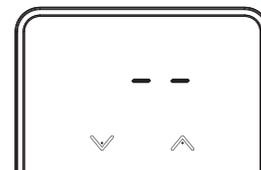
• Keypad unlock

To unlock the keypad, press the and buttons and hold them for 3 seconds again. OFF (deactivation) appear briefly on the display and the dot disappear, the keypad is unlocked.

STANDBY MODE

The system can be put on heating standby mode via the mobile application.

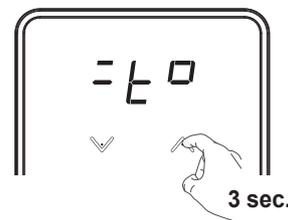
In this mode, it will operate at a temperature of 7°C and -- will appear on the display(s) of the thermostat(s). No action will be possible on the thermostat(s) until the system is turned back on via the mobile application.



MAXIMUM TEMPERATURE SETTING

Locking of the setting range using a maximum limit, preventing the setting temperature from being raised above the setting temperature. The maximum setting is preset to 30°C. You can adjust from 5°C to 30°C in heating mode, and from 7°C to 38°C in cooling mode by steps of 1°C.

- 1- To access the maximum temperature setting, press button during 3 seconds minimum.



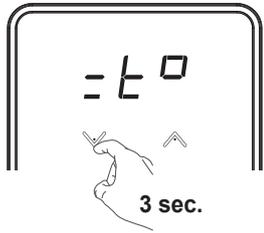
- 2- To change the maximum temperature setting, press or . The setting is active after a few seconds.



MINIMUM TEMPERATURE SETTING

Locking of the setting range using a minimum limit, preventing the setting temperature from being lowered below it. The minimum setting is preset to 5°C. You can adjust from 5°C to 30°C in heating mode and from 7°C to 38°C in cooling mode by steps of 1°C.

- 1- To access the minimum temperature setting, press  button during 3 seconds minimum.



- 2- To change the minimum temperature setting, press  or . The setting is active after a few seconds.



ADVANCED SETTINGS

To access advanced settings, press simultaneously  and  at least 10 seconds.

The advanced setting display will appear: SEt.

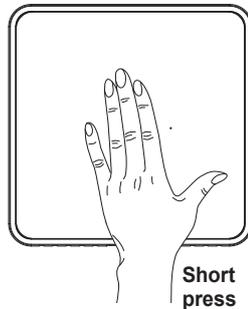
Radio unpairing → Controller output identification → Temperature compensation



RADIO UNPAIRING

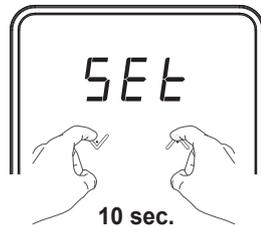
- 1- Activate thermostat

Short press on the screen with your hand.



- 2- Access to advanced settings

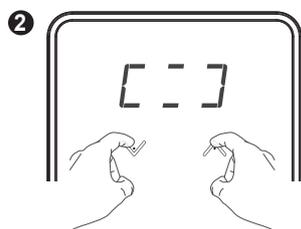
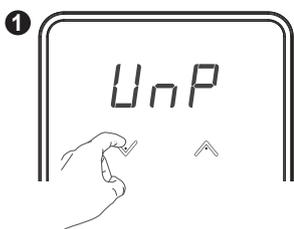
From main screen, press  &  simultaneously (>10 seconds). SEt will appear on the display.



- 3- Access to unpairing setting

1 Press  , UnP (unpair) will appear on the display.

2 Then press  &  simultaneously to start the unpairing process, [:] will appear on the display.



- 4- Radio unpairing complete

YES appears on the display when the pairing process is complete.



- 5- After 4 seconds back to the main screen.



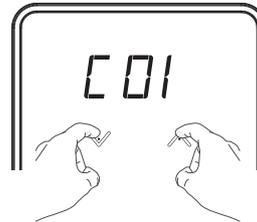
Important: The thermostat is no longer linked to the control unit or the mobile application, so it will no longer be able to execute their orders.

CONTROLLER OUTPUT IDENTIFICATION

- 1- You can easily identify which control unit output(s) are assigned to each thermostat. To do this, press  from radio unpairing display. rF1 appear.



- 2- Press  and  simultaneously to enter to the controller output identification. The associated channel number will appear on the display. If there is no channel associated to the thermostat, -- will appear.



- 3- If multiple channels are associated to the thermostat, press  or  to see the other associated channels.



- 4- Exit by pressing simultaneously on  and  or wait 4 seconds.

TEMPERATURE CALIBRATION

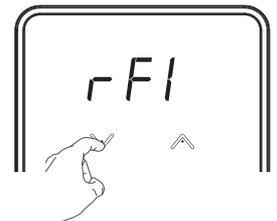
In which cases? If the temperature measured in a room (measured by a reliable thermometer) is different of at least 1 or 2°C compared to the setting temperature of the room thermostat.

The calibration adjusts the temperature measured by the ambient temperature sensor to compensate for a deviation from +5°C to -5°C by increments of 0.1°C.

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

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

- 1- Press  from controller output identification display.



- 2- 05t appears on the display, press  and  simultaneously to enter temperature compensation setting.



3- The display indicates to you the measured temperature correction value (which is 0 by default).



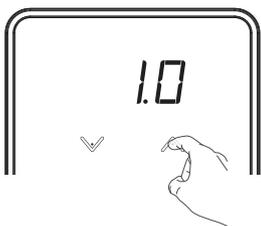
4- There are two possibilities:

4.1- If the room temperature difference is negative, example:

Setting temperature (what you want) = 20°C.
Ambient temperature (what you read on a reliable thermometer) = 18°C.
Difference measured = - 2°C.
Decrease the temperature measured by the ambient temperature sensor by 2°C by pressing button.

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

Setting temperature (what you want) = 19°C.
Ambient temperature (what you read on a reliable thermometer) = 20°C.
Difference measured = +1°C.
Increase the temperature measured by the ambient temperature sensor by 1°C by pressing button.



5- The setting is active a few seconds and the thermostat will return to the main screen.

EXPERT SETTINGS

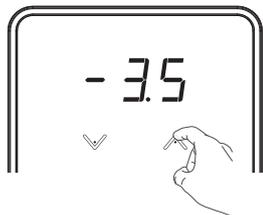
ECO REDUCTION SETTING

The Eco mode reduction setting is preset to -3.5°C. You can adjust from 0°C to -5°C by step of 0.5°C.

1- To access Eco reduction setting, from main screen, press for 12 seconds minimum.
ECO will appears shortly.



2- Press on and buttons to increase or decrease the Eco reduction level.



3- The setting is active after a few seconds and the thermostat will return to the main screen.

ANTIFREEZE SETTING TEMPERATURE (AVAILABLE IN HEATING MODE ONLY)

The Antifreeze temperature setting is preset to 12°C. You can adjust from 5°C to 20°C by steps of 1°C.

1- To access antifreeze temperature setting, from main screen, press for 12 seconds minimum.
AF (Anti-Frost) will appears shortly.



2- Press on or buttons to increase or decrease the frost protection temperature.



3- The setting is active after a few seconds and the thermostat will return to the main screen.

TROUBLESHOOTING

Display does not appear on thermostat.

- Check batteries.
- Replace the 2 batteries. Only use alkaline AAA (LR3) batteries.

Do not use rechargeable batteries.

The heating does not turn on or 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).
- Check that the communication works between the thermostat and the control unit.

The room temperature is not high enough:

- Check the active desired temperature and increase it if needed (see page 3).

The system is not heating but heating demand LED is on:

- If indicator light is on but the system remains cold, then you should contact your installer.

The thermostat does not regulate properly.

- Check if the device controlled by the room thermostat is connected correctly, call a qualified installer.

If the problem persists, contact your installer.

Error message	Description	What to do?
	Pairing failed	Reset your thermostat and process to pairing again
	Water Leakage detection has occurred. Please check your installation near the central unit and manifold.	Check your installation near the central control unit and the manifold
	Temperature sensor open circuit	Change your thermostat
	Temperature sensor short circuit	Change your thermostat
	Thermostat batteries are almost empty, please replace the batteries	Change the batteries of your thermostat
	Radio communication is lost	Try to activate your thermostat again. If the message reappears, check that your control unit is switched on, then move the thermostat closer to the control unit. If the problem persists, contact the After Sales Service.

TECHNICAL SPECIFICATIONS

- Power supply: batteries, 2 x 1.5VDC AAA / LR03 Alkaline only.
- Protection: class III, IP20.

Radio:

- Frequency range: 869,725- 869, 975Mhz.
- Radiated power: <10dbm.
- Receiver category 2.
- SAR: radiated power is under 13dbm.

Environment:

- Operation temperature: 0°C to +40°C.
- Storage temperature: from -20°C to +70°C.
- Humidity: 85% at +25°C (without condensation)
- Protection rating: IP20.

Manufacturer: THERMOTECH -Spårvägen 8, Umeå - S-90131 Sweden - 0620-68 33 30 - info@thermotech.se.

Website: www.thermotech.se

SIMPLIFIED EU DECLARATION OF CONFORMITY :

Hereby, Thermotech declares that the radio equipment type, Radio room thermostat IQ Room (Ref: 67940 & 67942), is in compliance with directives 2014/53/EU and 2011/65/EU.



The full text of the EU declaration of conformity is available at the following internet address: <https://www.thermotech.se/dokumentation/>



The symbol , affixed 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

Product codes	Photos	Descriptions
67940		IQ Room, radio room thermostat, white
67942		IQ Room, radio room thermostat, black

Compatible with the following products (sold separately):

Wireless control unit for underfloor heating/cooling		
Product codes	Photos	Description
67912		IQ Base Wireless control unit (24V AC)
67914		IQ Base Wireless control unit (230V AC)