

T200



INSTRUCTION MANUAL

Dear customer,

Thank you for having chosen the T200 thermostat.

It is an "advanced" ambient probe, equipped with an LCD display, which allows the ambient temperature, ambient set and operating mode of the zone with which it is paired to be displayed and changed.

T200 in combination only with the T300.

CONFORMITY

The T200 thermostat complies with:


- Electromagnetic Compatibility Directive 2014/30/UE
- Low Voltage Directive 2014/35/UE

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Scan the QR code to download the complete version of the Hi, Comfort T200 manual in english and in the other available languages or enter www.hi-comfort.com



The following symbols are used in some parts of the booklet:

 **WARNING** = for actions requiring special care and adequate preparation.

 **PROHIBITION** = for actions that **MUST NEVER** be carried out under any circumstances.

1. General safety warnings

T200 serves to regulate heat in the home.

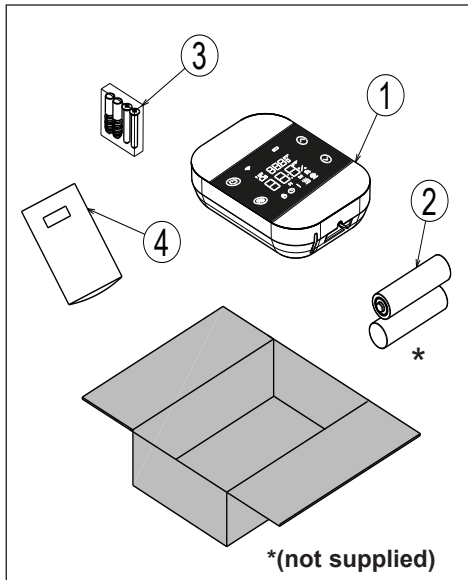
⚠ Avoid high temperatures, humidity and dusty environments.

⚠ To avoid short circuits or damage to the electronic thermostat: do not use cleaning liquids or solutions.

⚠ Disconnect the mains voltage of the heat generator before installation.

♻ At the end of its life, the product should be not be disposed of as solid urban waste, but rather it should be handed over to a differentiated waste collection centre.

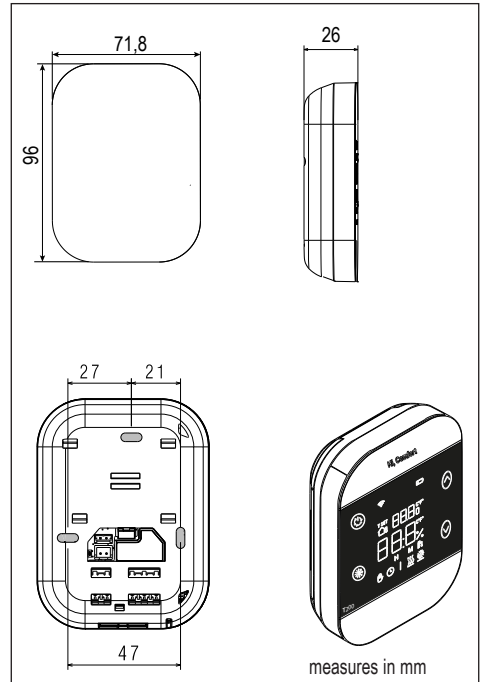
2. Receiving the product



Key

- 1) T200
- 2) *2 AA Batteries (not supplied)
- 3) Screws and wall plugs 2 ×
- 4) Instructions

3. Dimensions



measures in mm

4. Description

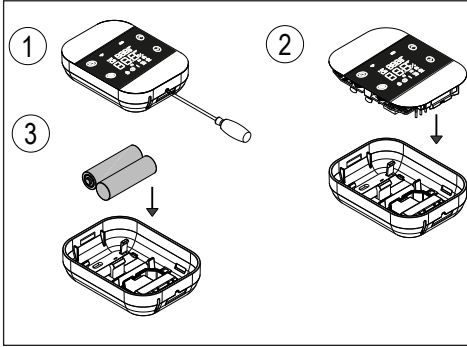
The Hi, Comfort T200 thermostat, in RF combination with the Hi, Comfort T300, allows optimal comfort control within every room of the house. Equipped with an innovative design and touch button technology for menu navigation.

T200 is also compatible with the Hi, Comfort App.

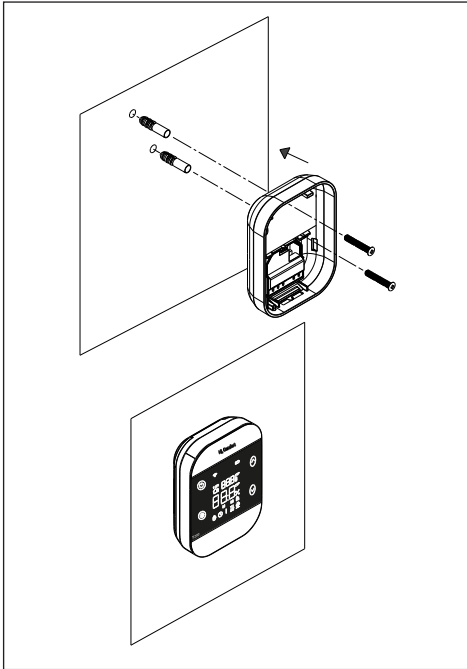
5. INSTALLATION

5.1 Inserting the batteries

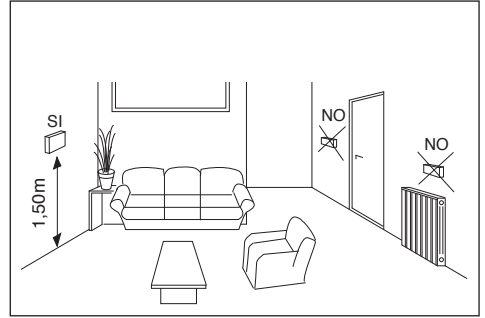
Use a screwdriver (1) to separate the display from the plastic casing as shown in the figure below.



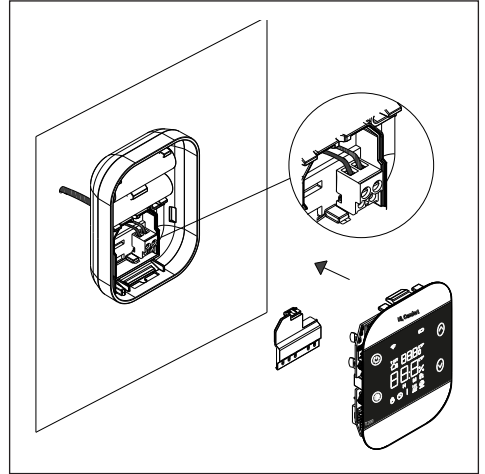
5.2 Wall mounting



5.3 Place of installation



5.4 T200 electrical connection







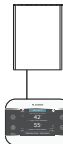












Relay maximum load

Relay normally open,
250VAC 5A $\cos\Phi = 1$.


























5.5 T200 technical data

Supply	2 batteries AA
Operating temperature	0°C / +50°C
Room setpoint hysteresis	0.5
Room probe display hysteresis	0.1
Relative humidity	0 ÷ 60% a 40°C non condensante
Degree of protection	IP20
Batteries life	15 months approximately

7. CONFIGURATIONS WITH T200 IN THE PRESENCE OF A BOILER OR HYBRID SYSTEM

	<p>MAIN ZONE MANAGED BY A BOILER + ZONE 1 AND 2 MANAGED BY A BE16</p> <p>Main zone: - ACTUATION TYPE: ITRF/BOILER - REQUEST TYPE: T200</p> <p>Zone 1 e 2: - ACTUATION TYPE: BE16 - REQUEST TYPE: T200</p> <p>BATTERIES NEEDED</p> <p>The MAIN ZONE (direct type) is managed by the boiler; ZONES 1 and 2 are managed with BE16 with the possibility of managing DIR/MIX zones with a circulator.</p>	<p>MAIN ZONE + ZONE 1 e 2 MANAGED BY BE16</p> <p>Main zone, Zone 1 e 2: - ACTUATION TYPE: BE16 - REQUEST TYPE: T200</p> <p>BATTERIES NEEDED</p> <p>The MAIN ZONE and ZONES 1 and 2 are managed with BE16 with the possibility of managing DIR/MIX zones with a circulator.</p>	<p>ZONE VALVES SYSTEM</p> <p>Main zone, Zone 1.....7: - ACTUATION TYPE: T200</p> <p>BATTERIES NEEDED + ZONES CONNECTION</p> <p>VAL-</p>			
	<p>Main zone = DIR Z1 = MIX o DIR Z2 = MIX o DIR Max 3 zones including the main zone</p>	<p>Main zone = MIX or DIR Z1 = MIX o DIR Z2 = MIX o DIR Max 3 zones including the main zone</p>	<p>Up to a maximum of 8 zones including the main one</p>			
Main zone						
Zone 1						
Zone 2						
Zone 3						
Zone 4						
Zone 5						
Zone 6						
Zone 7						

8. CONFIGURATIONS WITH T200 IN THE PRESENCE OF A SYSTEM FULL ELECTRIC

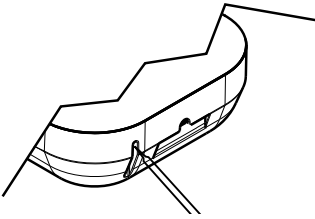
	<p>MAIN ZONE MANAGED BY A PDC + ZONE 1 AND 2 MANAGED BY A BE16</p> <p>Main zone: - ACTUATION TYPE: PDF - REQUEST TYPE: T200 Zone 1 e 2: - ACTUATION TYPE: BE16 - REQUEST TYPE: T200 BATTERIES NEEDED</p> <p>The MAIN ZONE (direct type) is managed by the PDC; ZONES 1 and 2 are managed with BE16 with the possibility of managing DIR/MIX zones with a circulator.</p>	<p>MAIN ZONE + ZONE 1 e 2 MANAGED BY BE16</p> <p>Main zone, Zone 1 e 2: - ACTUATION TYPE: BE16 - REQUEST TYPE: T200 BATTERIES NEEDED</p> <p>The MAIN ZONE and ZONES 1 and 2 are managed with BE16 with the possibility of managing DIR/MIX zones with a circulator.</p>	<p>ZONE VALVES SYSTEM</p> <p>Main zone, Zone 1.....7: - ACTUATION TYPE: T200 BATTERIES NEEDED + ZONE VALVES CONNECTION VAL-</p>		
	<p>Main zone = DIR Z1 = MIX o DIR Z2 = MIX o DIR Max 3 zones including the main zone</p>	<p>Main zone = MIX or DIR Z1 = MIX o DIR Z2 = MIX o DIR Max 3 zones including the main zone</p>	<p>Up to a maximum of 8 zones including the main one</p>		
Main zone					
Zone 1					
Zone 2					
Zone 3					
Zone 4					
Zone 5					
Zone 6					
Zone 7					

6. T200 DISPLAY



The T200 device consists of:

- symbol-based LCD display, 6 alphanumeric digits, white on black background
- pairing/unpairing/reset button accessible only with an adequate tool through the casing.



- 4 touch buttons:



Confirm












Back



Up/Down

Symbol key

The meaning of the symbols is described below.

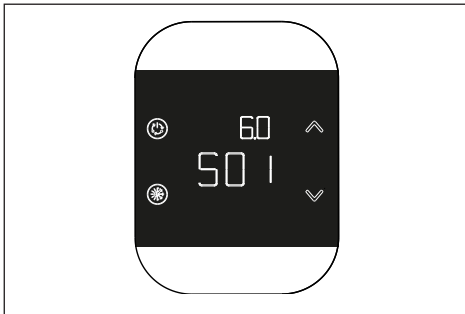
	RF Antenna - symbol is lit if the T200 is paired and connected to the T300 - symbol blinks if the device is not paired with any T300 - symbol is off if the device is paired but communication is not active.
	Battery The symbol activates when the battery voltage drops below 2.2Vdc. From the time the symbol activates (blinking), approximately one month of operation is guaranteed before the battery is fully discharged.
	T SET Indicates that the value displayed in the upper digits is the current ambient set.
	Manual Indicates that the zone electronic thermostat control mode is MANUAL or TEMPORARY MANUAL (manual setting ends at the next time band change).
	Automatic Indicates that the zone electronic thermostat mode is AUTOMATIC (active time bands) or TEMPORARY MANUAL (manual setting ends at the next time band change).
	Heating Indicates that the BOILER status (SYSTEM) is set to WINTER (managed heating request). The symbol is off if BOILER status (SYSTEM) is OFF. The horizontal bar is activated when there is a heat request for the zone.
	Cooling Indicates that the BOILER status (SYSTEM) is set to SUMMER. The symbol is off if BOILER status (SYSTEM) is OFF. The horizontal bar is activated when the zone is in cooling request condition.
	DHW (function not used)
	Day of the week (function not used)

9. Ignition

When the batteries are inserted, the symbol test appears and all symbols light up.




Once the symbol test is complete, the firmware version of the T200 appears on the display for a few seconds. The first line identifies the revision of the RF module (e.g: 6.0), while the second line identifies the FW Host of the object (e.g: S01).

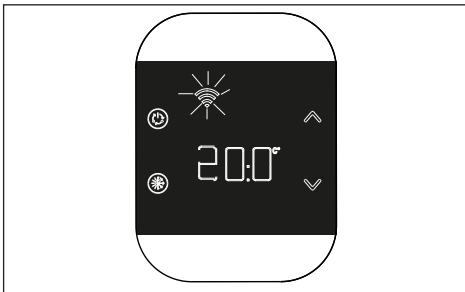



10. RF Communication

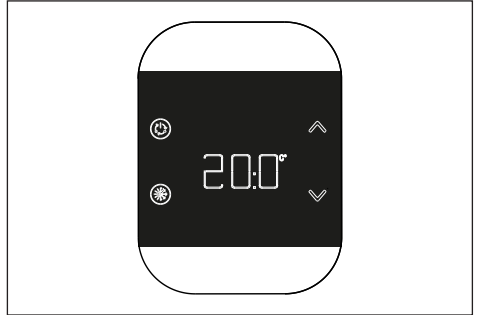
10.1 Pairing

When powered on, after displaying the firmware versions, the pairing and communication status with the T300 is checked.

If T200 is not paired with any system, the  symbol blinks.



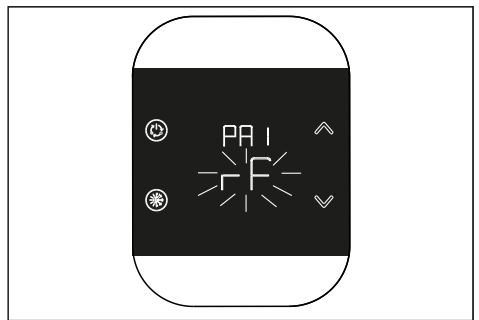
Otherwise, if the T200 is paired with a T300, but communication is not yet present (waiting for first message or loss of connection), the symbol  is off.




To pair the T200 device with a system, the pairing mode must be activated on the T300 (refer to the RF parameter described into T300 instruction manual for the PAIRING procedure), and then press the key inside the lower casing.

During the pairing phase, the word 'RF' blinks on the central digits together with the word 'PAI' (Pairing).

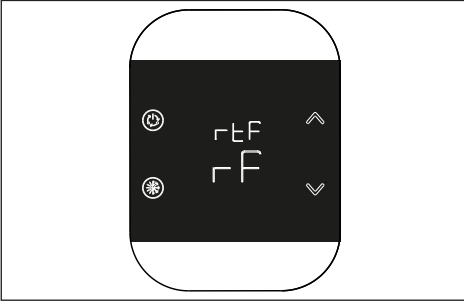
The procedure has a timeout of 2 min.



If the procedure is successful, the message OK appears on the T300 while the display automatically switches to the operating screen on the T200 and the symbol  remains on; if the procedure is not correctly completed, the message KO appears on the T300 and the display on the T200 shows the message RTF (Reset To Factory) with the corresponding RF display indicating that pairing was not successful.

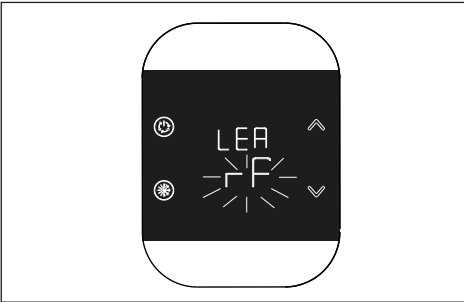
Component characteristics

RF module	868 MHz
RF distance	300 m in free field in communication with T300



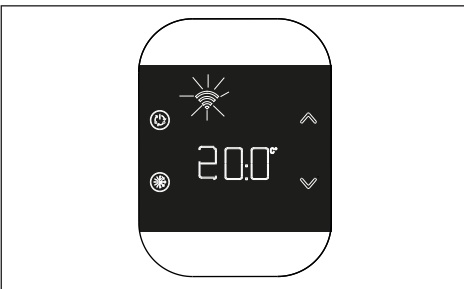
10.2 Leaving (Un-pairing)

To un-pair a T200 connected to the system, the un-pairing mode must be activated on the T300 (refer to the RF parameter described into T300 instruction manual for the LEAVING procedure). Then press the key which is inside the lower casing to activate the LEAVING procedure. The T200 shows:



The procedure has a timeout of 2 min.

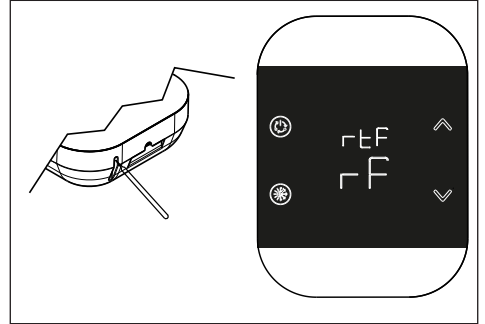
Un-pairing is successful if the main screen appears on the T200 for a few seconds and the screen with "📶" blinks. This indicates the possibility of another pairing procedure.



If the symbol "📶" is off, this indicates that the procedure has failed and un-pairing must therefore be repeated.

10.3 Deleting radio connection data (return to factory settings)

Press the key inside the lower casing for at least 5 seconds to reset the data and return to the factory settings. The display shows rF (return to factory settings).



Once the procedure is complete, the screen described at the beginning of the chapter returns, ready for pairing.

11. Functions

11.1 Change zone mode

When (🔄) is pressed in the main screen, you enter the Mode Change menu. The current mode blinks and you can use the arrows ^ / v to switch between modes.

After choosing the operating mode, confirm with the (👉) key.

The possible modes are MANUAL (👉)




AUTOMATIC






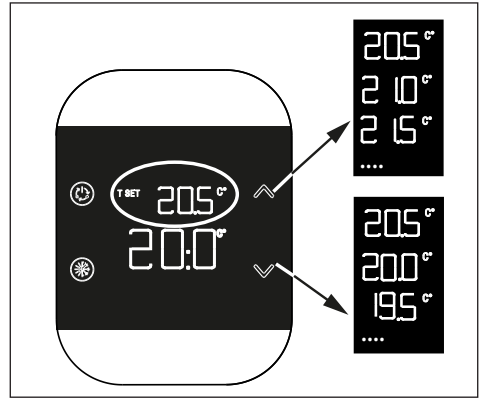
OFF



To exit the menu, press the button  or after 8 seconds the system will automatically switch to the main screen.

12. Modify ambient setpoint

Use the  /  keys in the main screen to switch to the 'modify ambient setpoint' mode. The setpoint change occurs in steps of 0.5°C, in a range from 5°C to 30°C. The new setpoint set must be confirmed by pressing the  key. If no confirmation is given after 8 seconds of inactivity, it returns to the previous setpoint.




13. TEMPORARY MANUAL mode

When the T200 is set to automatic mode, the TEMPORARY MANUAL mode can be activated. This mode consists of a temporary setpoint change of the current time band.

At the end of the time band, the zone returns to AUTOMATIC mode.

To activate the TEMPORARY MANUAL mode, use the  /  keys to set the temporary ambient setpoint and press .

When pressing the  key or after 8 seconds of inactivity, you will return to the main screen and any changes made will not be applied.

14. Energy-saving mode

Eight seconds after the last key is pressed, the device enters 'Energy saving' mode and the display switches off.

To reactivate the display on the main screen, press and hold any key for about one second. The first press only wakes up the display, the second press activates the keys.

15. Fault display

If a fault is present, the relative error code is displayed for 5 seconds with the message "ERR" in the small digits at the top when the display is reactivated from energy saving mode.

After 5 seconds, the display returns to normal operation.







If the fault refers to the hybrid or full electrical system, the fault code is preceded by the letter Axx, example: A10 = boiler flame failure.


If the fault refers to the T200 the fault code is preceded by the letter Exx, in this case there can be three types of anomaly:



- “E10” – room probe fault
- “E20” – fault RF module (radio frequency) T200 broken
- “E21” – lack of communication with T300: appears when the T200 is paired with the T300.

16. Configuration menu

A long press of the  key switches to a secondary menu. From this menu you can proceed with the device configuration. In this menu, ‘MOD’ is displayed on the small character line and the function to be configured blinks.

The  /  keys allow you to change the function. Press the  key to enter the selected configuration menu.

Press the  key to return to the main screen. Eight seconds after the last button is pressed, the energy save mode is activated. The configurable functions and their respective symbols are shown below.







	Temperature sensor calibration
	Radio signal level

Temperature sensor calibration





The T200 allows an offset to be entered to calibrate its internal temperature sensor thereby correcting any measurement errors. It is possible to enter values from -9.9°C to +9.9°C in steps of 0.1°C.


The default value set is 0.0°C

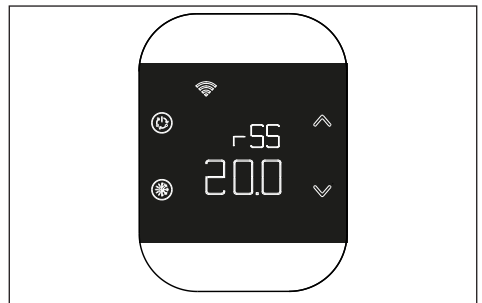


To access the offset modify screen, hold down the  key in the main screen until the blinking °C symbol appears, then press the  key again. The correction value is displayed on the large digits and can be changed with the  /  keys; the small digits show the measured temperature to which the selected correction is applied. The new value will be confirmed by pressing the  button. Alternatively, if you press , the current value is restored.

16.1 Radio signal level

The T200 lets you display radio signal strength. To access the radio signal strength display screen from the main screen, press and hold the  key until the blinking °C symbol appears, then press the  /  keys until the blinking Wi-Fi symbol appears and confirm your choice with the  key.

The radio signal strength display screen is useful both during installation and when verifying the correct connection with the T300. The screen remains for 80" and the value is read every 15". A value of 00.0 indicates that there is no radio signal. To terminate the operation and exit the page before 80", simply press the key .





A series of 20 horizontal lines spanning the width of the page, providing a template for handwriting practice.



A series of horizontal lines for writing, consisting of 20 evenly spaced lines that span the width of the page.

RIELLO S.p.A.
Via Ing. Pilade Riello, 7
37045 - Legnago (VR)
www.riello.it

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