



## Savio Caldaie RC22 Remote Control Installation Guide

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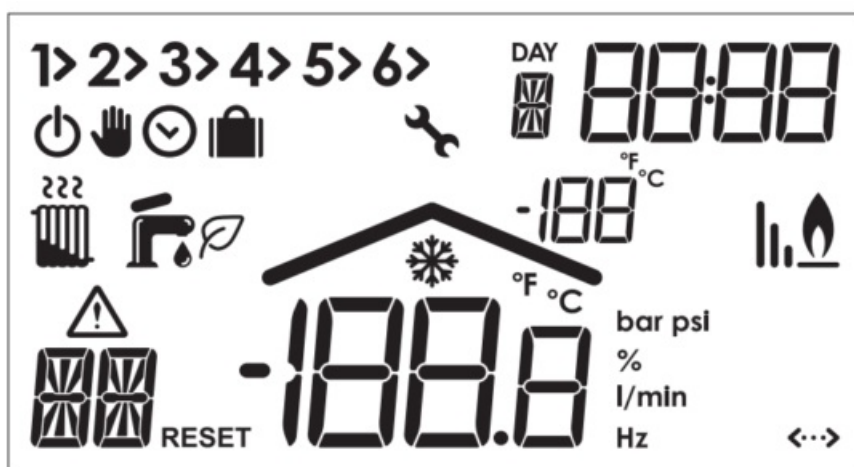
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## USER INTERFACE

### Display with active symbols





### Meaning of the active symbols:









Symbol	Description
1> 2> 3> 4> 5> 6>	Heating time bands (The current one is followed by the arrow)
DAY 1	Day of the week (1 = Mon, ..., 7 = Sun)
00:00	Time
 + 	Status = Winter + demand
 + 	Status = Summer + demand

	Economy function active for domestic hot water
	Status e Program = Off
	Program = Manual
	Program = Automatic
	Holly-day function active
	Flame presence and level
	Room temperature
	Antifreeze function active
	Presence of anomaly with code
	Communication error (with boiler)
<b>RESET</b>	Boiler unlock request
	External temperature
	Boiler communication present

## Buttons











Meaning of the buttons:

Symbol	Description
	OFF/winter/summer + RESET
	Automatic/Manual program

	Programming
	Time and day setting
	Heating temperature adjustment
	DHW temperature adjustment
	User information/Settings
	Holiday function/Copy
	Value decrease
	Value increase








## PROGRAMMING

### Day / Time



1. Press the button  to set the day. The number aside the word DAY will start flashing.
2. With buttons  and  set the current day of the week (day 1 = Monday, ..., day 7 = Sunday).
3. Press again button  to confirm and set the hour.
4. Modify the value with buttons  and , press again  to set minutes.
5. After setting also the minutes  using and , press again  to confirm everything and exit.












### Mode

## STATUS: OFF/WINTER/SUMMER







1. **Off** – To switch off the boiler, press the button  until the icon  is displayed. See also the Holly-day function to program the Off state for a specific period of time. In any case, if the room temperature decrease below 5°C, the heating is automatically switched on again for the Antifreeze function. The production of domestic hot water depends on the type of boiler connected.
2. **Winter** – To switch on heating, press the button  until icons  and  are displayed. Whatever boiler will deliver hot water.
3. **Summer** – To switch off the heating while maintaining the domestic hot water function, press the button  until icon  is displayed. In any case, if the room temperature decrease below 5°C, the heating is automatically switched on again for the Antifreeze function. The production of domestic hot water depends on the type of boiler connected.

## PROGRAM: AUTO/MAN/TEMP. MANUAL

Press the button   to change heating program from Automatic to Manual (only for Winter Status).

1. **Automatic** – When the display shows symbol  the active programme is Automatic and the Chrono-Thermostat will work according to the set weekly programme displaying the time bands in the upper part of the screen. Press the button   to change the program from Automatic to Manual and vice versa.
2. **Manual** – When display shows symbol  the set value is fix. Use the button  and  to change the value by increments of 0,1 °C. To increase/decrease the set it is necessary to keep pressed  for increase and  for decrease.
3. **Temporary Manual** – When Automatic program is active, it is possible to change temporary the set of current time band simply pressing on buttons  and  , as indicated in the Manual program. The symbol  will flash to indicate the new temporary situation which will end when the following time band starts.

## HEATING – DOMESTIC HOT WATER TEMPERATURE ADJUSTMENT

1. **Heating** – Press the button  : the display shows the current heating circuit water temperature setting, adjustable using the buttons  and  , in steps of 1°C.
2. **DHW** – Press the button  : the display shows the current domestic hot water temperature setting, adjustable using the buttons  and  , in steps of 1°C.

**Press any button to exit the menu.**

### Automatic Program

The automatic program allows you to set up to 6 time bands per day and the corresponding room set

temperatures between 7.0°C and 32.5°C, in steps of 0,1°C, from 00:00 to 23:59 in steps of 10 min, from day 1 (Mon) to day 7 (Sun).



**By default the device will follow the following preset program:**









MONDAY – FRIDAY					
1	2	3	4	5	6
06:30	08:00	12:00	14:00	18:00	22:30
21°C	18°C	21°C	18°C	21°C	16°C

SATURDAY – SUNDAY					
1	2	3	4	5	6
08:00	10:00	12:00	14:00	18:00	23:00
21°C	21°C	21°C	21°C	21°C	16°C



### Automatic preset program change

1. Press the button  to enter in program change menu

**Note:** when the program is changed the device displays first the time band 1 of day 1. Use buttons  and  to select one of the 6 time bands, use the button to change the days of the week.

2. Press the button  to move between starting time, temperature set and time bands.
3. Press buttons  and  to change start time by increments of 10 minutes.
4. Press the  button  to change temperature set.
5. Press buttons and to change the temperature by increments of 0,1°C.
6. Press the button  to go back to time bands.
7. Press buttons  and  to move to the next/previous time band (the selected time band is followed by the arrow).
8. Wait 60 seconds to exit or press any other button.

After having set the program for one day of the week, it is possible to copy it on the next days:

9. Use button  to select the day of the week to copy.
10. Press button  to copy the settings of the selected day of the week to the next day.





### Special Functions

#### Holiday function

Is used to switch off heating (the deactivation of the domestic hot water depends on the type of boiler connected) from 1 hour to 45 days, adjustable in steps of 1 hour. At the end of the function the previous settings are activated. If the room temperature decrease below 5°C, the heating is automatically switched on again for the


Antifreeze function.

### Activation and setting of Holiday function:

1. Press button . The symbol  starts flashing and the hours and minutes become -00:01, which is the time remaining before the end of the Holiday function.
2. Press buttons  and  to extend the time remaining until the end of the Holiday function in 1 hour increments (-00:01 means 1 hour; -45:00 means 45 days). By keeping the button pressed the time and days will change rapidly.
3. During the Holiday function the display will continue to show the time remaining until the end of the function.

To turn off Holiday function press the button .

### USER PARAMETER EDITING

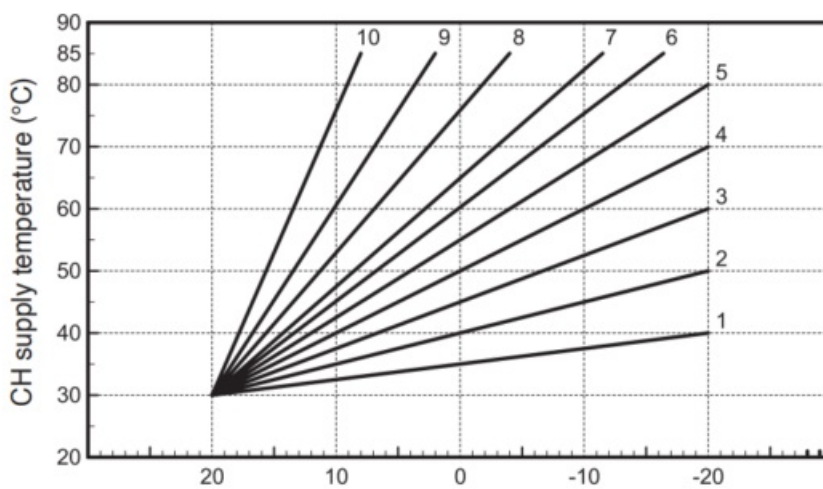
- Press the button  for 3 seconds to access user parameters menu.
- Press any other button to exit.

#### CU – Sliding temperature – Compensation curve




**Note:** default point set is 0.

Installing the external probe to the boiler the heating system temperature is adjusted according to the outside weather conditions. In particular, as the external temperature increases the system delivery temperature decreases according to a specific compensation curve.

The compensation curve can be set from 1 to 10 according to the following graph:



**External temperature (°C)**

1. Press the button  for 3 seconds until CU is showed.
2. Press buttons  and  to change the value.

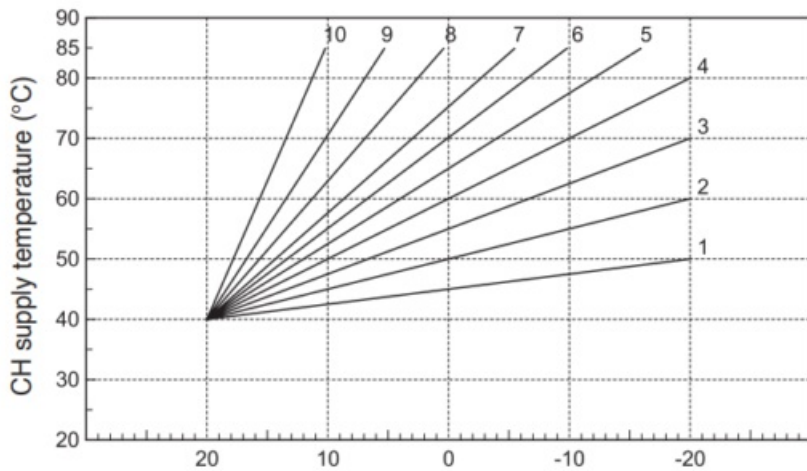
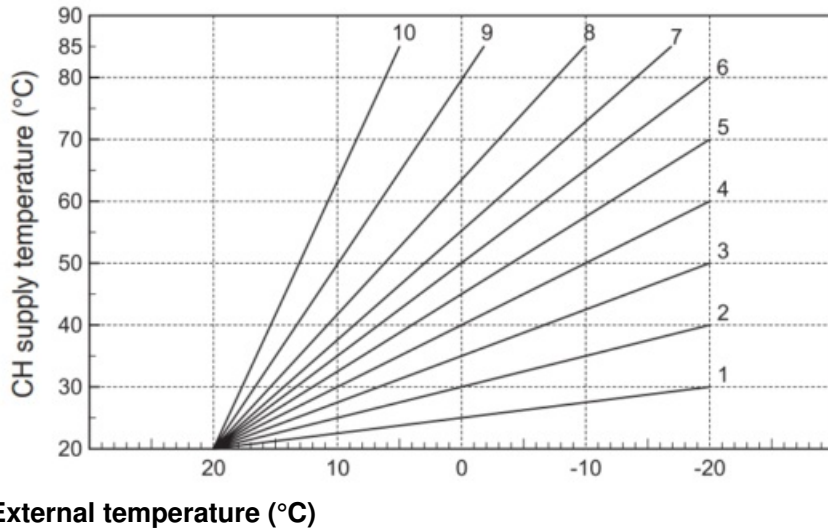


Set the compensation curve to 0 to disable Sliding Temperature adjustment.





### Sliding temperature – Parallel curve offset

**Note:** default point set is 30°C.


Once the Compensation curve has been set, parallel curve offset can be adjusted from 20 to 40 as shown in the following graphs:



External temperature (°C)

1. Press the button  for 3 seconds until CU is showed.
2. Press again  until OF is showed.
3. Press buttons  and  to change the value.





### P1 – Enable DHW programming

To set the weekly automatic programme proceed as described in the section “AUTOMATIC PROGRAM”. During the COMFORT level, the boiler will maintain the domestic hot water set; during the ECO level, showed on the display by the symbol , the production of domestic hot water depends on the type of boiler connected. Refer to the boiler instructions.

**Attention:** make sure the remote control is set to Winter mode with automatic operation.

**Note:** default point set is 0 = Deactivated.

### Program setting:

1. Press the button  for 3 seconds until CU is showed.
2. Push the button  2 times to switch on P1.
3. Press buttons  and  to change the value:
  - 0 = Disabled
  - 1 = DHW time program enabled only in WINTER
  - 2 = DHW time program enabled in WINTER and SUMMER
  - 3 = DHW time program disabling, DHW forcing in permanent economy in WINTER and SUMMER.

### P2 – Pre-heating function





**Important:** this function is active only if heating automatic mode has been selected.

When this function is enabled, the device makes the boiler starting before the set hour, in order to reach comfort temperature the soonest even from the very beginning of the time slot (not before 00:00). It is also possible to set a fixed pre-heating slope, in this way, the device considers as comfort temperature adding 3° to set temperature, thus the boiler does not switch off when the set is reached.

During the pre-heating function the room temperature °C symbol flashes. The function ends when the difference between the programmed room temperature and the actual one is less than 0,5°C.

**Note:** default point set is 0 = Deactivated.

### Function setting:





1. Press the button  for 3 seconds until CU is showed.
2. Push the button  3 times to switch on P2.
3. Press buttons  and  to change the value:
  - 0 = Deactivated
  - 1 = Automatic pre-heating
  - 2 = Fixed pre-heating slope.

### P3 – Number of time bands

The Automatic programme manages 6 points, each of them associated to an hour and a temperature. Each point matches to the beginning of a new time band. If necessary they can be reduced to a minimum of 2.





**Note:** default point is set to 6.

### Function setting:

1. Push the button  for 3 seconds until CU is showed.
2. Push the button  4 times to switch on P3.
3. Press buttons  and  to change the value.





### P4 – Heating minimum temperature

Setting the minimum heating circuit water temperature by step of 1°C.

1. Push the button  for 3 seconds until CU is showed.
2. Push the button  5 times to switch on P4.
3. Press buttons  and  to change the value.


### P4 – Heating minimum temperature

Setting the minimum heating circuit water temperature by step of 1°C.

1. Push the button  for 3 seconds until CU is showed.
2. Push the button  5 times to switch on P4.
3. Press buttons  and  to change the value.

### P5 – System filling



This function manages the operation mode of the electric device for filling the water circuit in certain boiler models.



**Attention:** Set the boiler control to manual filling. In manual mode, if the sensor installed in the boiler detects insufficient pressure, the bar icon will flash on the display; press the button  to activate the special solenoid valve.

During manual or automatic system filling the bar icon will become fixed. Once the nominal pressure is restored, the remote control will return to the normal display.

**Note:** default point set is 0 = Deactivated.

### Function setting:





1. Push the button  for 3 seconds until CU is showed.
2. Push the button  6 times to switch on P5.

3. Press buttons  and  to change the value.

#### **P6 – Temperature measurement unit (°C/°F)**

**Note:** default point is set to 0 =°C.

##### **Temperature setting:**

1. Push the button  for 3 seconds until CU is showed.
2. Push the button  7 times to switch on P6.
3. Press buttons  and  to change the value:  
0 = °C  
1 = °F.

#### **P7 – Correction of room temperature reading**


It is possible to correct the room temperature reading between -2°C and +2°C by steps of 0,1°C.

**Note:** default point is set to 0.

##### **Setting of reading correction:**

1. Push the button for 3 seconds until CU is showed.
2. Push the button 8 times to switch on P7.
3. Press buttons and to change the value.





#### **P8, P9 – Phone contact input (GSM)**

Normal Remote Control operation is ensured as long as the telephone contact remains open. The closing of this contact, indicated on the display with the symbols , can be used to force the Remote Control to switch off heating or to set the room temperature to a preset fixed value.

**P8** – note: default point is set to 0 = Heating switched OFF.



**P9** – note: default point is set to 20°C.

##### **Function setting:**

1. Push the button  for 3 seconds until CU is showed.
2. Push the button  9 times to switch on P8.
3. Press buttons  and  to change the value:  
0 = to switch off heating when the contact is closed

1 = to adjust room temperature to a preset fixed value (by means of parameter P9) when the contact is closed.


4. Push the button  to switch on P9.

5. Press buttons  and  to change the value (only if parameter P8 is set to 1).

#### **OT – Type of communication protocol Open Therm**

**Parameter reserved for qualified person.**

#### **Parameter setting:**

1. Push the button  for 3 seconds until CU is showed.

2. Push the button  11 times to switch on OT.

3. Press buttons  and  to change the value:


0 = Standard

1 = OEM

2 = B&P.

### **GENERAL INFORMATION**

The remote control can provide the user with information on boiler status.

Each press of the button  allows the cyclic display of the following information:

T1 – Heating circuit delivery water temperature

T2 – Domestic hot water temperature

T3 – Heating circuit return water temperature (boilers with sensor only)

T4 – Delivery water temperature setpoint calculated by the remote control

P5 – Actual burner power

F6 – Actual fan speed (condensing boilers only)

F7 – Actual DHW flowrate (instant hot water boilers with flowmeter only)

P8 – Actual system pressure (boilers with pressure sensor only)

M – Device model

V – Device software version.

### **FAULTS**

E91 = communication error with the boiler

E92 = room temperature reading probe not working

E93 = external temperature reading probe not working

AXX = anomaly XX of the boiler not unlockable

FXX = anomaly XX of the unlockable boiler.

### **RESTORING FACTORY SETTING**

Important: with this procedure the device parameters will be restored to the factory set values, except for the time

and day setting.

To reset user setting will be necessary to push the buttons **+** and **—** together for 10 seconds (the message RE flashing is displayed).

DEFAULT SETTINGS	
Time	12:00
Day	1 (Monday)
Mode	Auto
Heating manual temperature	20°C
Antifreeze temperature	5°C

## PRODUCT DATASHEET

According to 811/2013 Rule, the class of temperature controller is:

Class	Contribution to seasonal space heating energy efficiency (%)	Description
V	+3%	Chrono-Thermostat
VI	+4%	Chrono-Thermostat combined with the external probe

The RC22.xx remote controls are compliant with: – 2014/30/UE (Electromagnetic Compatibility Directive)

**CE** RC22 must comply to the above mentioned Directive, so CE mark is printed on the user manual:

## WARNING

Wiring must conform to technical norms, specifically:

- the electrical conductors for connecting the remote control to the boiler must go through small channels different from those of the mains (230 V), as they are fed at a low safety voltage.

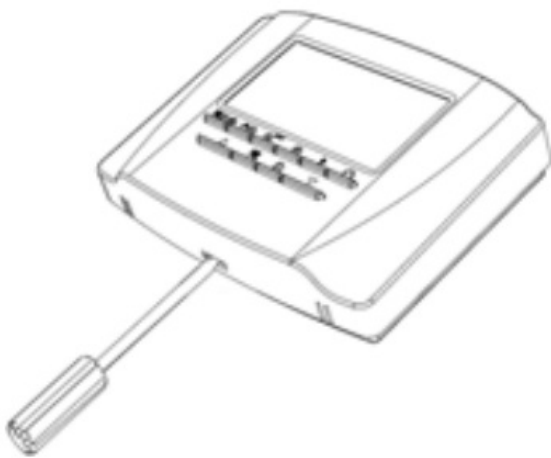
The installation of the device must be carried out **ONLY** by qualified person.

**Warning:** disconnect the power to the boiler before carrying out installation.

In no case can the manufacturer be held responsible if the warnings and instructions given in this booklet are not followed.

## INSTALLATION

1. Choose the most appropriate place for installation in order to guarantee the correct device functioning. It is recommended to install the device at a height of approx. 150 cm from the floor, in a place away from doors, windows or heat sources that could affect the room temperature.
2. Remove the front of the Chrono-Thermostat by prising with a screwdriver inside the hole below.
3. Fix the back of the Remote Control to the wall with the set of screws supplied.



4. Connect the device to the boiler with the OT (COM) terminal, for Open Therm communication, as indicated on the label located inside the back, using a non-polarized bipolar cable < 50 m (Recommended section:  $2 \times 0.75 \text{ mm}^2$ ).



**Note:** AUX (IN) input can be connected to a free contact, with a non polarized bipolar cable < 10 m, of auxiliary remote control devices (GSM, IoT, Home Automation, Zone, ...). Closing it allows the start of pre-established states, programs and sets that can be set via parameters.

5. Refit the front of the Chrono-Thermostat making sure to centre it on the rear part.

Once ended the above indicated procedure, it will be possible to connect the power to the boiler.

## REMOTE CONTROL DISPOSAL AND RECYCLING

Please observe the regulations currently in force regarding recycling or disposing of the REMOTE.

For electronic appliances specifically, please see Directive 2012/19/EU and ANNEX IX of the Italian Decree transposing this Directive, DL49/14



The crossed-out wheeled bin symbol on the appliance or packaging indicates that the product must be collected separately from other waste at the end of its useful life.

The user must take the appliance – at the end of its lifecycle – to a suitable separate collection facility for electrical and electronic waste, or return it to the retailer when purchasing a new appliance of the same type.

By taking the appliance to a suitable collection facility for correct recycling, treatment or environmentally compatible disposal, you are helping to prevent any damage to the environment and human health and to promote the reuse and recycling of the materials used to make the appliance.

Users disposing of the product illegally will be fined as per the regulations in force.

<http://www.biasi.it/>

<http://www.saviocaldaie.it/>


<http://www.tradesa.com/>

<http://www.biasigroup.hu/>

## Documents / Resources

	<a href="#">Savio Caldaie RC22 Remote Control</a> [pdf] Installation Guide RC22, Remote Control, RC22 Remote Control
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## References

-  [Home | Biasi Caldaie](#)
-  [biasigroup.hu](http://www.biasigroup.hu)
-  [Home | Savio Caldaie](#)
-  [Sistemas de calefacción y fontanería - Tradesa](#)