

# SAVIO® WFC03 Remote Control



## savio WFC03 Remote Control Instruction Manual

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# SAVIO®

**savio WFC03 Remote Control**



## FAQs

### **Q: How do I reset the device to factory settings?**

A: To reset to factory settings, navigate to the 'Reset' option in the menu and confirm the action.

### **Q: How can I associate the device with the WFC03 gateway?**

A: To associate with the WFC03 gateway, follow the pairing instructions provided in the user manual or contact customer support for assistance.

In order to constantly improve its products, the manufacturer reserves the right to change the data provided in this documentation at any time and without notice. This documentation is provided for information purposes and cannot be considered as a contract with third parties.

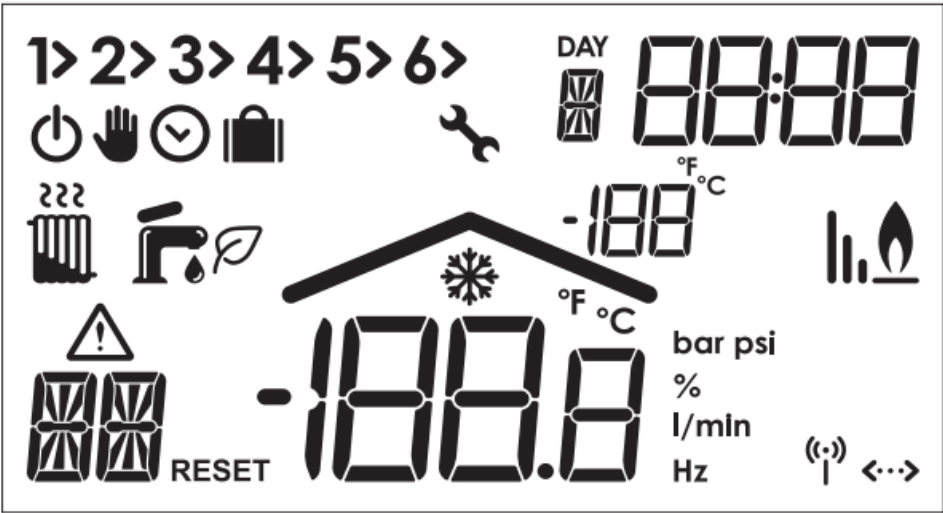
**This manual replaces previous versions.**

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Open Therm electronic device with user interface function for boiler control and weekly room Chrono-Thermostat. Ready to communicate with WFC03 gateway for remote con-trol by APP.















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
 + 	Heating enabled + demand on going
 + 	DHW enabled + demand on going

Symbol	Description
	Fixed: Cooling enabled Blinking: demand on going
	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)
RESET	Boiler unlock request
	Absent: Gateway not associated Fixed: Gateway associated and reachable Blinking: Gateway unreachable
	External temperature
	Boiler communication present

## Buttons





Only for devices with back-light, the first pressure of any button unlocks the keyboard and turns on then backlighting, the second pressure make an action.

## Meaning of the buttons

Symbol	Description
	OFF / only DHW / heating / cooling / RE-SET (unblocking)
	Automatic/Manual program
	Hourly 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+ set -the current day of the week (day 1 = Monday, ..., day 7 = Sunday).
3. Press the 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 / ONLY DHW / HEATING / COOLING



1. OFF – To switch off the boiler, press the button  until the icon  is displayed. See also the Holiday-day function to program the OFF state for a specific period of time. In any case, if the room temperature decreases 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. Only DHW – To switch off the heating while maintaining the domestic hot water function, press the button  until the icon  is displayed. In any case, if the room temperature decreases below 5°C, the heating is automatically switched on again for the Antifreeze function.
3. Heating – To switch on heating, press the button  until icons  and  are displayed. Whatever controlled unit will deliver hot water.






4. Cooling – To switch on cooling, if the controlled unit is enabled to this function, press the button





until icons  are  displayed. Which controlled unit will deliver hot water?

## PROGRAM: AUTO/MAN/TEMP. MANUAL

Press the button   to change the heating program from Automatic to Manual (for heating, cooling, or domestic hot water only if enabled).

1. Automatic – When the display shows a symbol  the active program is Automatic and the Chrono-Thermostat will work according to the set weekly program 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 the display shows a symbol  the set value is fixed. 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 the Automatic program is active, it is possible to change (only for heating and cooling) the set of current time bands by 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

1. 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).

**Note:** only DHW scheduling (if enabled) shows Economy (EC) or Comfort (CO) levels instead of temperature. By default, the device will follow the following preset program:

## HEATING

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

#### COOLING (if enable)









MONDAY – FRIDAY					
1	2	3	4	5	6
06:30	08:00	12:00	14:00	18:00	22:30
26°C	28°C	26°C	28°C	26°C	27°C

SATURDAY – SUNDAY					
1	2	3	4	5	6
08:00	10:00	12:00	14:00	18:00	23:00
26°C	26°C	26°C	26°C	26°C	27°C

#### DHW (if enabled)

MONDAY – FRIDAY					
1	2	3	4	5	6
08:00	10:00	12:00	14:00	18:00	23:00
CO	CO	CO	CO	CO	CO

#### Automatic preset program change




1. Press the button  to enter in program menu.
2. Press buttons+ and – move from HEATING to COOLING or DOMESTIC HOT WATER.
3. Press the button  to confirm and start changing.
  - **Note:** when the program is changed the device displays first the time band 1 of day 1. Use the buttons+ and- to select one of the 6-time bands, use the button  to change the days of the week.
4. Press the button  to move between starting time, temperature set, and time bands.
5. Press buttons+ to – change the start time by increments of 10 minutes.
6. Press the button  to change the temperature set.
7. Press buttons+ to – change the temperature by increments of 0,1°C. In the case of DHW programming, is possible to change from ECONOMY (EC) e COMFORT (CO).
8. Press the button  to go back to time bands.
9. Press buttons+ to – move to the next/previous time band (the selected time band is followed by the arrow).
10. 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:
11. Use the button  to select the day of the week to copy.
12. Press the 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 or cooling (the deactivation of the domestic hot water depends on the type of controlled unit 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 decreases 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 the Holiday function press the button. 

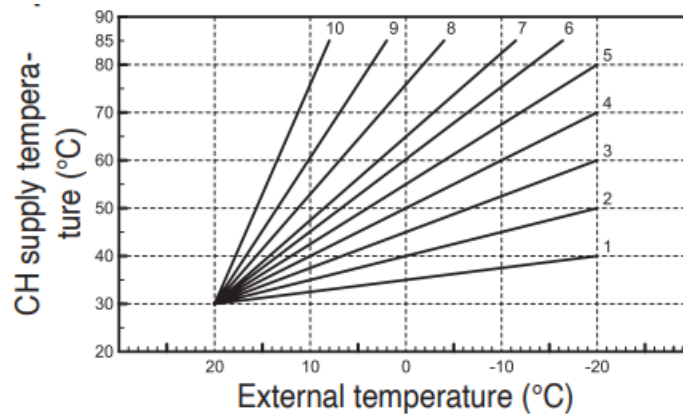
## USER PARAMETER EDITING



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

### CU – Sliding temperature – Heating compensation curve

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:

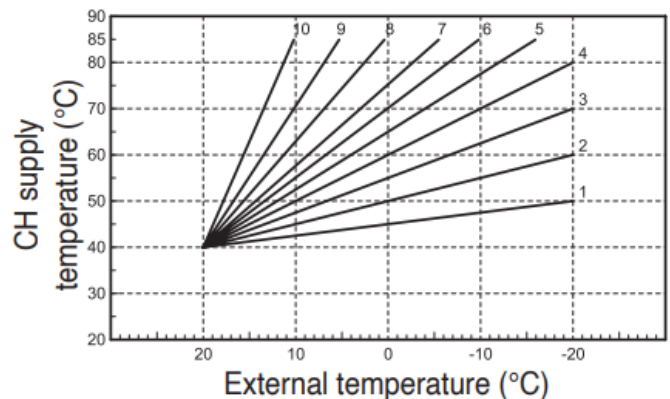
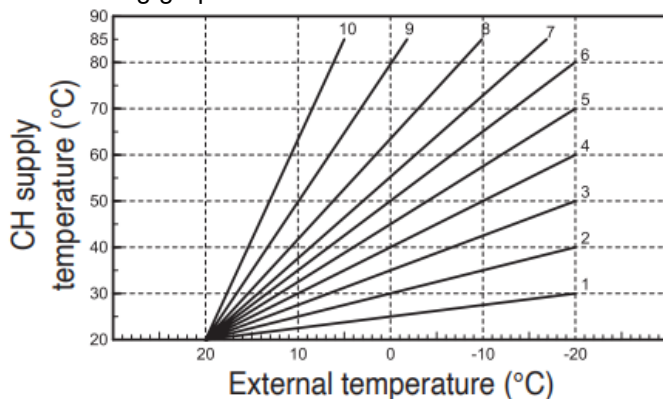


1. Press the button for 3 seconds until CU is shown.
2. Press the buttons + to – change the value. Set the compensation curve to 0 to disable the Sliding Temperature adjustment.

### Sliding temperature – Heating parallel curve offset

**Note:** The default point set is 30°C.

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



1. Press the button for 3 seconds until CU is shown.

2. Press again until OF is shown.
3. Press the buttons+ and – to change the value.

### Enable DHW programming

To set the weekly automatic program 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, shown 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 HEATING mode with the AUTOMATIC program.


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

### Program setting:



1. Press the button  for 3 seconds until CU is shown.



2. Push the button  2 times to switch on P1.
3. Press buttons + and – to change the value:
  - Disabled. Always Comfort.
  - Enabled only for HEATING and COOLING mode.
  - Always enabled.
  - Disabled. Always Economy.


### P2 – Pre-heating function

**Important:** this function is active only if the heating automatic mode has been selected. When this function is enabled, the device makes the boiler start 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-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 shown.





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 program manages 6 points, each of them associated to an hour and a temperature. Each point matches 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 shown.
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 shown.
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 shown.
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 shown.
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.

#### **The setting of reading correction:**




1. Push the button  for 3 seconds until CU is shown.
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 shown.
2. Push the button  9 times to switch on P8.
3. Press buttons + 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 shown.
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.

#### FS – Nax heating setting and DHW setting

Enabling/disabling the reading of the heating and DHW setpoint.

**Note:** default is 0 = reading and writing

#### Parameter setting:



- Press the button  for 3 seconds until CU is shown.
- Push the button  12 times to switch on FS.
- Press buttons + and – to change the value:
  - 0 = reading and writing
  - 1 = only writing

#### D1 – CONTRAST

Only for versions with backlight.

To change the display contrast.

#### Parameter setting:



1. Press the button  for 3 seconds until CU is showed.
2. Push the button  13 times to switch on D1.
3. Press buttons + and – to adjust the contrast.

#### 3.13 D2 – Lighting duration





Only for versions with backlight.

- To change the backlight duration.


## Parameter setting:

1. Press the button  for 3 seconds until CU is showed.
2. Push the button  14 times to switch on D2.
3. Press buttons + and – to modify its duration in seconds.


## KEY LOCK FUNCTION

From the unlocked keypad, it is possible to activate the lock by pressing the two buttons  and  simultaneously for about 3 seconds. When the lock is activated, “LK” will appear briefly. From this moment the keypad will be locked and at each action “LK” will be shown to indicate the keypad lock in progress. To unlock the keypad press the two buttons  and  simultaneously again for 3 seconds. After unlocking, “UL” will appear briefly.

## USE WITH GATEWAY WFC03

Note: the WFC03 gateway is not included in the package but is an accessory to be purchased separately. This gateway only works with the RC22OTRF (knowable by the icon  in the label placed inside the case back). By associating the WFC03 gateway with RC22OTRF, and installing WFC03 in the home WLAN network, it is possible to manage the room temperature and the operation of the controlled unit remotely via APP. APP is available on the APPLE Store or Play Store. To know how to associate and remove the zone/remote to the gateway and for WLAN installation, refer to the APP itself where there is a guided procedure.

## 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

### the following information:

- T1 – Heating circuit delivery water temperature
- T2 – Domestic hot water temperature
- T3 – Heating circuit return water temperature (boilers with a 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 flowmeteronly)
- P8 – Actual system pressure (boilers with pressure sensor only)
- P9 – Rate request for cooling calculated by the Remote (if the controlled unit is enabled to function)
- 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 the user setting will be necessary to push the buttons + to-together for 10 seconds (the message RE flashing is displayed)

## PRODUCT DATASHEET

According to 811/2013 Rule, the class of temperature controller and contribution to seasonal space heating energy efficiency in % are the following:

Class	Contribution	Description
V	+3%	Chronothermostat.
VI	+4%	Chronothermostat combined with the external probe; installed on boiler equipped with a modulating burner
VIII	+5%	Zone manager kit combined with 3 Chronothermostat; installed on boiler equipped with modulating burner

The RC22OTRF remote controls are compliant with: – 2014/53/EU (RED) (Electromagnetic Compatibility Directive) RC22OTRF must comply to the above-mentioned Directive, so the CE mark is printed on the user manual:

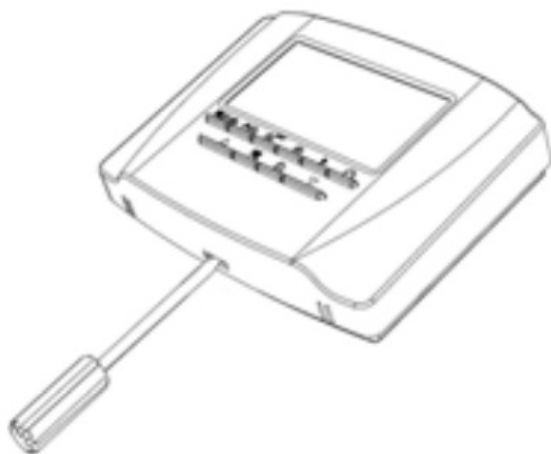
## WARNING

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

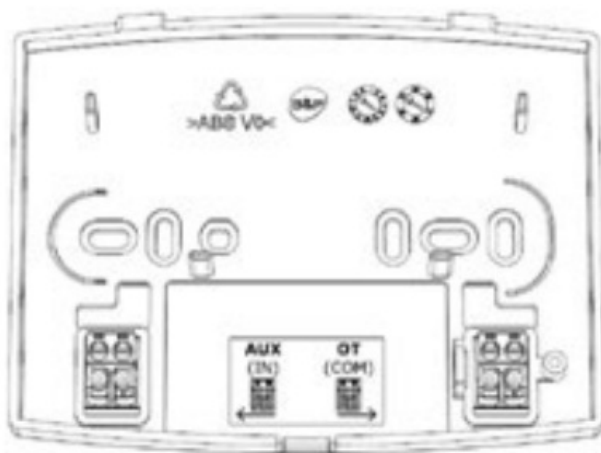
warnings and instructions given in this booklet are not followed?

## 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: 2x0.75mm<sup>2</sup>).




- **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. Closing it allows, only for HEATING MODE, the start of pre-established states, programs, and sets that can be set via parameters. If WFC03 is connected for remote management by APP the AUX input doesn't work.
5. Refit the front of the Chrono-Thermostat making sure to centre it on the rear part. Once 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.
- [www.biasi.it](http://www.biasi.it)
- [www.saviocaldaie.it](http://www.saviocaldaie.it)
- [www.tradesa.com](http://www.tradesa.com)
- [www.biasigroup.hu](http://www.biasigroup.hu)

## Documents / Resources

	<a href="#">savio WFC03 Remote Control</a> [pdf] Instruction Manual WFC03 Remote Control, WFC03, Remote Control, Control
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## References

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-  [biasigroup.hu](http://biasigroup.hu)
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