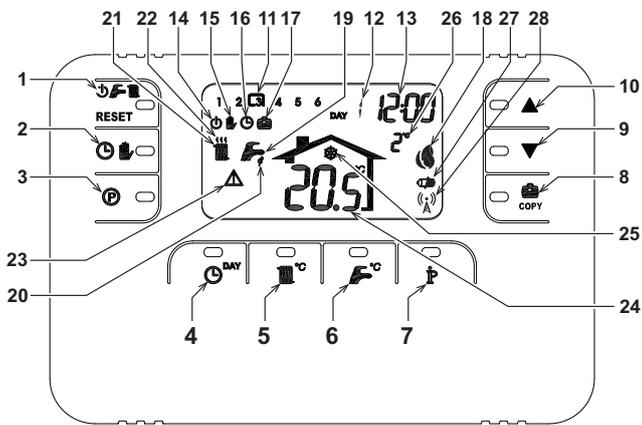
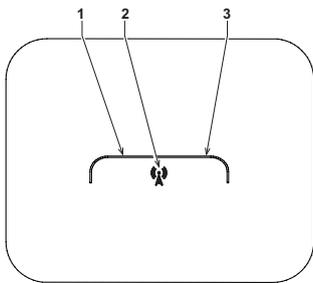


OVERVIEW OF RF REMOTE CONTROL



- 1 OFF, summer-winter mode/reset faults selection button
- 2 Automatic/manual heating mode button
- 3 Heating - DHW programming button
- 4 Time and day setting button
- 5 Heating temperature adjustment button
- 6 DHW temperature adjustment button
- 7 User information/settings button
- 8 Holiday function button/copy heating - DHW programme day
- 9 Manual room temperature decrease button
- 10 Manual room temperature increase button
- 11 Heating programme time bands
- 12 Day of week
- 13 Hours and minutes
- 14 OFF mode
- 15 Heating manual mode
- 16 Heating automatic mode
- 17 Holiday function
- 18 Burner on and current power level
- 19 Summer mode
- 20 DHW mode
- 21 Winter mode
- 22 Heating mode
- 23 Fault
- 24 Room temperature
- 25 Room antifreeze
- 26 External temperature (only with optional external probe connected)
- 27 Batteries flat
- 28 Flashing: Finding synch. Fixed: RF communication ok

OVERVIEW OF RF BRIDGE



- 1 - Left LED
- 2 - TEST mode button
- 3 - Right LED

CONFIGURE AND ACTIVATE THE REMOTE CONTROL IN 6 EASY STEPS

Step 1. Installation check (RF BRIDGE)

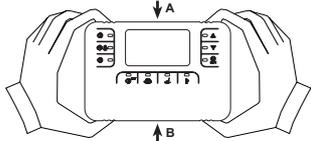
Make sure the RF bridge is electrically fed through the connection with the boiler card. The left LED must activate 3 fast blinks every 2 seconds.

Step 2. Battery installation (RF REMOTE CONTROL)

Note: Follow the instructions in only if installing the RF Remote Control for the first time or if the RF Remote Control display activates the symbol or if the display is off (no symbols or numbers appear). Otherwise go straight to Step 3: *Correct setting of time and day.*

To install the batteries:

- Remove the front cover by prising with a screwdriver at points A and B as shown in the figure, to access the batteries.



- Insert the two 1.5V AA LR6 alkaline batteries supplied with the RF Remote Control, making sure to fit them in the right direction (indicated inside the front part).
- Refit the front part of the RF Remote Control. (Make sure to centre the front part on the rear part to ensure correct insertion of the contacts).
- Wait: finding synchronism between RF Remote Control and RF Bridge. The operation ends when the symbol shown on the RF Remote Control display stops flashing. Otherwise remove the batteries from the RF Remote Control and repeat Steps 1 and 2: if necessary, bring the RF Remote Control nearer the RF Bridge to obtain more reliable RF communication.

Step 3. Setting the time and day

- Press the button . The day starts flashing: use the to set the correct day of the week, where DAY 1 is Monday and DAY 7 is Sunday.
- Press the button . The hours start flashing: use the to set the correct hours from 00 to 23.
- Press the button . The minutes starts flashing: use the buttons to set the correct minutes from 00 to 59.
- Press the button .

Step 4. Setting the automatic weekly programme

Once the time and day have been set, the Remote Control will follow the preset automatic programme. The heating programme provides for 6 daily time bands for temperature levels, numbered from 1 to 6. The time bands can be set between 00:00 and 24:00 in 10 minute increments. Each temperature level can be set between 7°C and 32.5°C in 0.1°C increments. Therefore any combination of time and temperature during the day can be programmed, and different for each day of the week. The preset automatic programme is:

From Monday to Friday	Band 1	Band 2	Band 3	Band 4	Band 5	Band 6
Start time	06:30	08:00	12:00	14:00	18:00	22:30
Temperature level	21°C	18°C	21°C	18°C	21°C	16°C

From Saturday to Sunday	Band 1	Band 2	Band 3	Band 4	Band 5	Band 6
Start time	08:00	10:00	12:00	14:00	18:00	22:30
Temperature level	21°C	21°C	21°C	21°C	21°C	16°C

Follow the instructions given below to modify the preset automatic programme.

- Press the button . If DHW programming is enabled, select the radiator symbol with the buttons and confirm with the button . The 6 daily time bands flash and number 1 of DAY 1 is shown in a box to indicate that time band 1 of Monday can be modified.
- Press the button . The hours and minutes start flashing: use the buttons to change the time band start time in 10 minute increments. By keeping the button pressed the hours and minutes will change rapidly.
- Press the button . The room temperature inside the house starts flashing: use the buttons to change the temperature level in 0.1°C increments. By keeping the button pressed the temperature will change rapidly.
- Press the button . The 6 daily time bands flash.
- Then press the button to display time band 2 of Monday, modifiable by repeating steps 2 to 4.
- The remaining time bands can be displayed by selecting bands 3, 4, 5 or 6 with buttons and repeating step 5.
- The programme setting for the following day can now be selected:
 - Press the button to display DAY 2. The Tuesday programme can be modified by repeating steps 2 to 6.
 - To copy the Monday programme to Tuesday, press the button . To copy the same programme also to the other days of the week, press the button repeatedly.

Important! When setting the programme make sure each band has a different start time.



Monday	Band 1	Band 2	Band 3	Band 4	Band 5	Band 6
Start time						
Temperature level						

Tuesday	Band 1	Band 2	Band 3	Band 4	Band 5	Band 6
Start time						
Temperature level						

Wednesday	Band 1	Band 2	Band 3	Band 4	Band 5	Band 6
Start time						
Temperature level						

Thursday	Band 1	Band 2	Band 3	Band 4	Band 5	Band 6
Start time						
Temperature level						

Friday	Band 1	Band 2	Band 3	Band 4	Band 5	Band 6
Start time						
Temperature level						

Saturday	Band 1	Band 2	Band 3	Band 4	Band 5	Band 6
Start time						
Temperature level						

Sunday	Band 1	Band 2	Band 3	Band 4	Band 5	Band 6
Start time						
Temperature level						

Step 5. Operation mode selection

OFF mode selection - If you are going away for prolonged period (also see Holiday Function) or if you simply want to switch off the heating, press the button and the symbol is displayed. The heating is switched off, and switched on again only if the room temperature falls below 5°C: freezing protection function. If equipped with a hot water tank, the boiler will not deliver domestic hot water; instant-type hot water boilers will deliver hot water.

Summer mode selection - To switch off the heating while maintaining the domestic hot water function, press the button and the symbol is displayed. The heating is switched off, and switched on again only if the room temperature falls below 5°C: freezing protection function. Whatever the type of boiler, it will deliver hot water.

Winter mode selection - To reactivate heating and restore the previously set operation mode, press the button again and the symbol will appear on the display. Whatever the type of boiler, it will deliver hot water.

Heating automatic operation (in Winter mode) - Press the button and the symbol will appear on the display. The Remote Control will function according to the automatic weekly programme, displaying the 6 time bands: the time band active at that moment is displayed in a box. If the box is not shown, this means that the current time is between 00:00 hours and the start of time band 1.

Set temperature level exclusion - In automatic mode the room temperature value can be temporarily changed by pressing the buttons in 0.1°C increments. By keeping the button pressed the temperature will change rapidly. The exclusion function, indicated on the display by the symbol flashing, will be cancelled at the next time band change.

Heating manual operation (in Winter mode) - To use the Remote Control at a fixed room temperature level, press the button and the symbol appears on the display (the 6 time bands are not displayed). Then set the room temperature value by pressing the buttons in 0.1°C increments. By keeping the button pressed the temperature will change rapidly. Manual mode will be maintained until another operation mode is selected.

Step 6. Heating - DHW temperature adjustment

Heating - Press the button : the display shows the current heating circuit water temperature setting, adjustable using the buttons in 1°C increments. Press any button to exit the menu.

DHW (domestic hot water) - Press the button : the display shows the current domestic hot water temperature setting, adjustable using the buttons in 1°C increments. Press any button to exit the menu.

SPECIAL FUNCTIONS

Holiday Function

The Holiday Function is used to switch off heating (also domestic hot water production for boilers with a storage tank) for a given period of time, from 1 hour to 45 days, adjustable in 1 hour increments. This makes it possible to save energy when away from home, whereas the previously set operation mode resumes as soon as the Holiday function ends. Heating is activated only if the room temperature falls below 5°C: freezing protection function.

Follow the instructions given below to activate and set the Holiday function.

- Press the 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.
- Use the buttons 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.
- During the Holiday function the display will continue to show the time remaining until the end of the function.

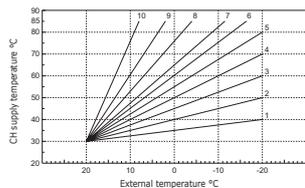
To cancel the Holiday function press the button or any other button associated with a different operation mode.

USER PARAMETER EDITING

Sliding Temperature - Compensation curve

By installing the external probe (optional), the control system can work with a Sliding Temperature. The external probe must be connected to the boiler card: refer to the relevant handbook for details. In this mode, the heating system temperature is adjusted according to the outside weather conditions in order to ensure high comfort and energy saving throughout the year. In particular, as the external temperature increases the system delivery temperature decreases according to a specific compensation curve. With the Sliding Temperature adjustment the temperature set through the "Heating temperature adjustment" setting becomes the maximum system delivery temperature. It is advisable to set a maximum value to allow system adjustment throughout its useful operating range.

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



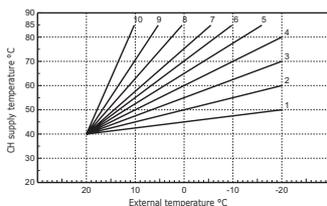
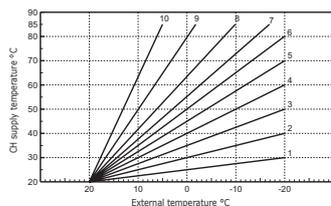
1. Keep the button **P** pressed for 3 seconds.
2. The display shows the CU parameter. Press the buttons **▲/▼** to modify the compensation curve by increments of 1 unit. By keeping the button pressed the value will change rapidly.
3. Press any other button to exit the menu.

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

The system must be adjusted at the time of installation by qualified personnel. Possible adjustments can in any case be made by the user to improve comfort. If the room temperature is lower than the required value, it is advisable to set a higher order curve and vice versa. Proceed by increasing or decreasing in steps of one and check the result in the room.

Sliding Temperature - Parallel curve offset

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



1. Keep the button **P** pressed for 3 seconds.
2. The display shows the CU parameter.
3. Press the button **P**.
4. The display shows the OF parameter.

Press the buttons **▲/▼** to modify parallel curve offset in 1°C increments. By keeping the button pressed the value will change rapidly.

5. Press any other button to exit the menu.

Enable DHW programming

Follow the instructions given below to enable domestic hot water programming.

1. Keep the button **P** pressed for 3 seconds.
2. The display shows the CU parameter.
3. Press the button **P** twice.
4. The display shows parameter P1.

Set to 0 using the buttons **▲/▼** to disable domestic hot water programming. Set to 1 using the buttons **▲/▼** to enable domestic hot water programming.

5. Press any other button to exit the menu.

To set the weekly automatic programme proceed as described in the section "Step 2. Automatic weekly programme setting", selecting the tap symbol at step "1" and setting EC (Economy) or CO (Comfort) at step "3" rather than a temperature value. In fact the remote control has a weekly time programmer based on two levels: during the COMFORT level, the boiler will maintain the set hot water tank temperature; during the ECO level, the boiler will not deliver domestic hot water. Refer to the boiler documentation for information on the type of hot water storage tank.

Important: Make sure the remote control is set to Winter mode with automatic operation.

Pre-Heating Function

This function is active only if the automatic heating mode has been selected.

When set to Automatic, the function anticipates the heating system start time (not before 00:00 hours on the same day) so that the room temperature set by the user is reached at the start of the programmed time band. The Remote Control calculates an initial hypothetical Pre-activation time: if the programmed room temperature is reached in a shorter time than that calculated, the Pre-Heating time will be decreased, and vice versa. This creates a self-learning process, for identifying the minimum necessary Pre-activation time.

The Remote Control also offers the possibility of setting a fixed Pre-Heating slope: In this case, the room temperature will be increased by 3°C an hour.

Therefore the automatic heating programme should be set according to the time when heat is required and not that when the heating system is to be started.

Follow the instructions given below to activate or deactivate this function.

1. Keep the button **P** pressed for 3 seconds.
2. The display shows the CU parameter.
3. Press the button **P** 3 times.
4. The display shows parameter P2.

Set to 0 using the buttons **▲/▼** to deactivate Pre-Heating. Set to 1 using the buttons **▲/▼** to activate Automatic Pre-Heating. Set to 2 using the buttons **▲/▼** to activate the Pre-Heating function with a fixed slope of 3°C per hour.

5. Press any other button to exit the menu.

During the pre-heating function the room temperature °C symbol flashes.

The pre-heating function ends when the difference between the programmed room temperature and the actual room temperature is less than 0.5 °C.

Maximum number of daily time bands

The heating programme provides for 6 daily time bands for temperature levels, numbered from 1 to 6. If necessary, the time bands can be reduced to a minimum of two.

1. Keep the button **P** pressed for 3 seconds.
2. The display shows the CU parameter.
3. Press the button **P** 4 times.
4. The display shows parameter P3.

Use the buttons **▲/▼** to modify the number of daily time bands from 2 to 6.

5. Press any other button to exit the menu.

Heating minimum temperature

Follow the instructions given below to set the minimum heating circuit water temperature in 1°C steps.

1. Keep the button **P** pressed for 3 seconds.
2. The display shows the CU parameter.
3. Press the button **P** 5 times.
4. The display shows parameter P4.

Use the buttons **▲/▼** to adjust the parameter in 1°C increments. By keeping the button pressed the value will change rapidly.

5. Press any other button to exit the menu.

System filling

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

1. Keep the button **P** pressed for 3 seconds.
2. The display shows the CU parameter.
3. Press the button **P** 6 times.
4. The display shows parameter P5.

Set to 0 using the buttons **▲/▼** to deactivate the electric filling device. Set to 1 using the buttons **▲/▼** to activate Manual system filling. Set to 2 using the buttons **▲/▼** to activate Automatic system filling.

5. Press any other button to exit the menu.

Important: Set the boiler control card 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 RESET 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.

Temperature unit of measure selection

Follow the instructions given below to use the Remote Control in °C or in °F.

1. Keep the button **P** pressed for 3 seconds.
2. The display shows the CU parameter.
3. Press the button **P** 7 times.
4. The display shows parameter P6.

Set to 0 using the buttons **▲/▼** to select °C.

Set to 1 using the buttons **▲/▼** to select °F.

5. Press any other button to exit the menu.

Room temperature reading correction

Follow the instructions given below to correct the room temperature reading between -2°C and +2°C in 0.1°C steps.

1. Keep the button **P** pressed for 3 seconds.
2. The display shows the CU parameter.
3. Press the button **P** 8 times.
4. The display shows parameter P7.

Use the buttons **▲/▼** to adjust the parameter in 0.1°C increments.

5. Press any other button to exit the menu.

Telephone contact input

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.

Follow the instructions given below to set the two functions.

1. Keep the button **P** pressed for 3 seconds.
2. The display shows the CU parameter.
3. Press the button **P** 9 times.
4. The display shows parameter P8.

Set to 0 using the buttons **▲/▼** to switch off heating when the contact is closed.

Set to 1 using buttons **▲/▼** to adjust room temperature to a preset fixed value (by means of parameter P9) when the contact is closed.

5. Press the button **P**.
6. The display shows parameter P9.

Set the room temperature value that the Remote Control will adjust when the contact is closed (if parameter P8 is set to 1) by pressing the buttons **▲/▼** in 0.1°C increments. By keeping the button pressed the temperature will change rapidly.

7. Press any other button to exit the menu.

Modification of the Remote Control operating mode on opening or closing of the telephone contact can occur in a maximum time of 120 seconds.

OTHER FUNCTIONS

Information menu

The remote control can provide the user with information on boiler status. Each press of the button **P** 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)
- v - Remote control software version

Press any other button to exit the menu.

Power failure

In this case the Bridge RF stops working, because it is electrically fed by the boiler card.

The symbol () shown on the Remote Control display starts flashing. If the power is restored within 2 minutes, the symbol () becomes fixed again and RF communication is immediately activated. Otherwise the display activates fault E94 and the symbol ()

once the power is restored, it is necessary to wait about 15 minutes. After which the symbol () becomes fixed and RF communication is available again.

Diagnostics

The remote control constantly monitors boiler status and signals any faults by activating an alarm icon and a specific fault code: for a description of the fault, refer to the boiler documentation.

Certain faults cause permanent shutdowns (indicated with the letter "A"): to reinstate operation just press the RESET button; other faults (indicated with the letter "F") cause temporary shutdowns which are automatically reset as soon as the value returns within the boiler's normal working range.

Room temperature probe fault

In case of a Remote Control room temperature probe, the display activates fault code E92 and the symbol (). Heating is switched off.

External temperature probe fault

In Sliding Temperature operation and in case of an external temperature probe (optional) fault, the display activates fault code E93 and the symbol (). The adjustment temperature become fixed at the "Heating temperature adjustment" value. To eliminate the fault, reset the external probe or disable Sliding Temperature adjustment.

RF REMOTE CONTROL INSTALLATION

The RF Remote Control can be wall-mounted or installed on the desk-top support provided; as an alternative to wall-mounting, the latter allows the RF Remote Control to be placed on a support surface.

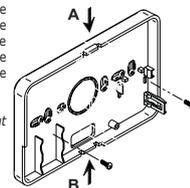
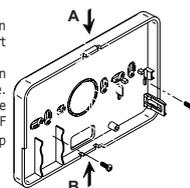
The RF Remote Control must be fixed to the wall at a height of approx. 1.5 m from the floor, in a place away from entrance doors, windows or heat sources that could affect room temperature. Disconnect the power to the boiler before carrying out installation. Remove the front part of the RF Remote Control by prising with a screwdriver at points A and B. Then fix the back of the RF Remote Control to the wall with the set of screws supplied. Do not insert the batteries: see Step 1: *Installation check* and Step 2: *Battery installation*.

Refit the front part of the RF Remote Control.

RF BRIDGE INSTALLATION

Disconnect the power to the boiler before carrying out installation. Remove the front part of the RF Bridge by prising with a screwdriver at points A and B. Then fix the back of the RF Bridge to the wall with the set of screws supplied, running the two wires inside the rectangular hole at the bottom (near the terminals): use the "OT" terminals for the electrical connection. If the telephone contact (voltage-free contact) has to be connected, use the "GSM" terminals. Refit the front part of the RF Bridge.

Use a two-core cable (2x0.75mm², max. 2x2.5mm²), making sure its path is different from that of the mains power cables. The cable must not be longer than 50 m.



TECHNICAL CHARACTERISTICS AND DEFAULT SETTINGS

Time setting	12:00
Day setting	Day 1=Monday
Operation mode	Automatic
Manual mode heating temperature	20°C
Room antifreeze temperature	5°C
CU Compensation curve	0=Deactivated
OF Parallel curve offset	30°C
P1 Enable DHW programming	0=Deactivated
P2 Pre-Heating Function	0=Deactivated
P3 Max. number of daily time bands	6
P4 Heating min. temperature	-
P5 system filling	0=Deactivated
P6 Temperature unit of measure selection	0=°C
P7 Room temperature reading correction	0
P8 Telephone contact input operation selection	0=Switch off heating
P9 Manual temperature on closing of telephone contact input	20°C
Guaranteed average life of batteries	1 year