WT-RF02

COMMUNICATING WIRELESS
ELECTRONIC DEVICE WITH
USER INTERFACE FUNCTIONS
FOR REMOTE CONTROL
OF THE BOILER AND
THERMOSTAT
(WEEKLY SCHEDULING).

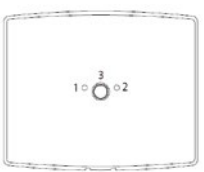
USER GUIDE

warmhaus

INSTALLATION

The REMOTE can be installed on the wall or on the table stand provided; as an alternative to wall mounting the latter allows the REMOTE to be positioned on a support.

BRIDGE

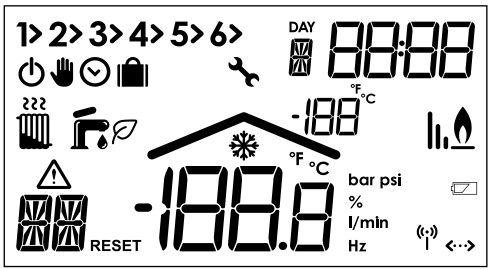


Legend

1 LED_SX = left LED

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)
88:88	Time
+ zzz	Status= Winter + demand
+	Status= Summer + demand

	Economy function active for domestic hot water
	Status e Program= Off
	Program= Manual
	Program= Automatic
	Hollyday function active
	Flame presence and level
	Room temperature
	Antifreeze function active
	Presence of anomaly with code
	Communication error (with boiler)
RESET	Boiler unlock request
	External temperature
	Assente: Bridge non associato Fisso: Bridge associato e raggiungibile
	Boiler communication present
	Batteries low

Buttons

Meaning of the buttons:

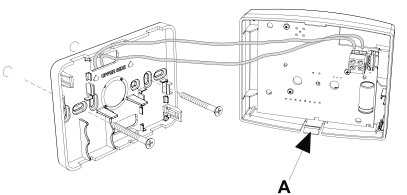
Symbol	*Description*
	OFF/winter/summer + RESET
	Automatic/Manual program
	Programming
DAY	Time and day setting
	Heating temperature adjustment
	DHW temperature adjustment
	User information/Settings
	Holiday function/Copy
−	Value decrease
+	Value increase

INSTALLATION

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

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

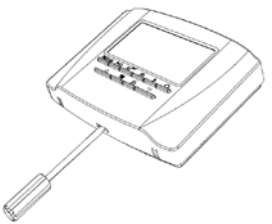
1. ***Remove the front of the BRIDGE*** by prying with a screwdriver at point A. Then, with the set of fastening screws supplied, secure the back of the BRIDGE making sure to run the 2 wires, coming from the boiler, inside the rectangular hole at the bottom (near the terminals). Use the terminals "OT" for the electrical connection. Using a non-polarized bipolar cable <50m (Recommended section: 2 x 0.75mm²).



2. ***Refit the front of the BRIDGE.*** Making sure to centre it on the rear part.

3. ***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. 150cm from the floor, in a place away from doors, windows or heat sources that could affect the room temperature

4. ***Remove the front*** of the Chronothermostat by prising with a screwdriver inside the hole below.



5. ***Fix*** the back of the Remote Control to the wall with the set of screws supplied.

6. ***Insert*** the two 1.5 V AA LR6 alkaline batteries supplied with the REMOTE, checking their correct positioning (indicated on the inside of the front).

7. ***WAIT*** to close the front of the REMOTE. Before turn on the boiler to power the BRIDGE.

Note: *AUX (IN) input can be connected to a free contact, with a non-polarized bipolar cable <10m, 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.*

8. ***Make sure*** that the BRIDGE is electrically powered through the connection with the boiler board. The left LED must flash every 2 seconds.
9. ***Refit the front*** of the Chronothermostat making sure to centre it on the rear part.
10. ***Wait*** for synchronization between REMOTE and BRIDGE. The operation ends when the symbol shown on the display stops blinking.
11. From the main screen, ***press the button*** , for 10 seconds to access the RF menu. If the device has not yet been paired, the display will show “RF - -”, otherwise “RF” will appear, followed by a numerical value indicating the quality of the signal relevant to communications between the Remote and the Bridge from 0 to 4. Zero mean no signal and four mean signal present, excellent quality level.

If the symbol is missing, remove the batteries from the Thermostat and try again from point 7. bringing the Thermostat close to the BRIDGE.

In case of a first pairing (“RF - -”), follow the pairing procedure. If, on the other hand, the device is already paired and a new pairing is desired, first follow the unpairing procedure and then the pairing procedure, otherwise press the button to exit the procedure.

Unpairing procedure

1. From the current screen (“RF x”) press the button : “de” will appear.
2. Press the button Ⓟ. If the unpairing is successful, “In” will appear on the screen. The device will be unpaired and it will be possible to continue with a new unpairing.
3. Press the button to return to the main screen.

Pairing procedure

1. From the current screen (“RF - -”) press the button: “In” will appear.
2. Put the Bridge in standby for pairing by pressing the middle button for about 5 seconds (the left LED will start blinking). Bridge standby status lasts for 10 seconds.
3. Press the button Ⓟ. “>>” will appear for a few seconds to indicate that the procedure for pairing with the Bridge is in progress. If the procedure is completed successfully, the display will show “dE” together with the value of the local address received from the paired Bridge. In case of failed procedure, the indication “In” will appear again and the

procedure will have to be repeated.

4. Press the button to return to the main screen.

DAY / TIME

1. Press the button DAY 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 DAY to confirm and set the hour
4. Modify the value with buttons + and -, press again DAY to set minutes
5. After setting also the minutes using + and -, press again DAY 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 Hollyday 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 util 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 decrese 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 hetaing program from Automatic to Manual (only for Winter Status).

1. ***Automatic -*** When the display shows symbol the active programme is Automatic and the Chronothermostat 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 buttons + 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 DAY 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)

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:

8. Use button DAY to select the day of the week to copy
9. 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 decrese 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

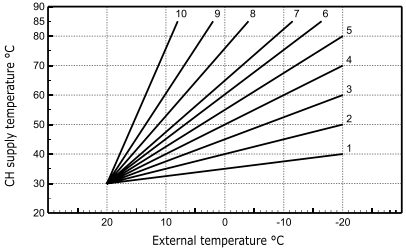
CU - SLIDING TEMPERATURE - COMPENSATION CURVE

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:



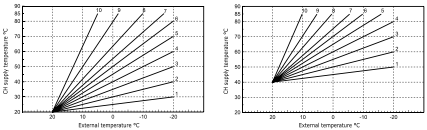
1. Press the button for 3 seconds until CU is showed
2. Press buttons + and - to change the value

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:



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 𝕀P 2 times to switch on P1
3. Press buttons + and - to change the value
   0= Deactivated
   1= Auto

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 𝕀P for 3 seconds until CU is showed
2. Push the button 𝕀P 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 𝕀P for 3 seconds until CU is showed
2. Push the button 𝕀P 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 𝕀P for 3 seconds until CU is showed
2. Push the button 𝕀P 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 insuffi cient pressure, the bar icon will fl ash on the display; press the button o 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 - EMPERATURE 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 - IPHONE 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:
4. 0= to switch off heating when the contact is closed
5. 1= to adjust room temperature to a preset fixed value (by means of parameter P9) when the contact is closed.
6. Push the button to switch on P9
7. Press buttons + and - to change the value (only if parameter P8 is set to 1)

OT - TYPE OF COMMUNICATION PROTOCOL

Parameter reserved for qualified person.

Parameter setting:

1. Press 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 INFORMATIONS

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 buttuns **+** and **-** together for 10 seconds (the message RE flashing is displayed).

TECHNICAL CHARACTERISTICS AND DEFAULT SETTINGS

Time	12:00
Day	1 (monday)
Mode	Auto
Heating manual temp	20°C
Antifreeze temperature	5°C

PRODUCT DATASHEET

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

Class	Contribution to seasonal space heating energy efficiency in %	Description
V	+3%	Chronothermostat
VI	+4%	Chronothermostat combined with the external probe

The WT-RF02 remote controls are compliant with:

- ***2014/30/UE***
(Electromagnetic Compatibility Directive)

WT-RF02 must comply to the above mentioned Directive, so CE mark is printed on the user manual:

CE

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