1. Button / Symbol Description



2. How your programmable thermostat works

When the thermostat is in the AUTO mode, it will operate according to the times and temperatures that have been programmed. The user can select from 6 different programs per day - each with a time and a temperature.

There is no OFF time, only a higher and a lower temperature.

If the user wants the thermostat to be OFF at a certain time, set the temperature for this time to be low. The thermostat will turn ON if the room temperature is lower than the setpoint for the current period.

Example: If P1 is set to be 21˚C at 6am, and if P2 is set to be 10˚C at 8am, the thermostat will look for the temperature to be 21˚C between 6am and 8am.

3. Setting the Date, Time and Programming Mode

Press and hold ☰ for 5 seconds.
'P01 & PrOg' will appear on the screen.
Press ^ until **'P02 & tInE'** appears on the screen.
Press OK to select.
Press ^ or v to adjust the year. Press OK
Press ^ or v to adjust the month. Press OK
Press ^ or v to adjust the day. Press OK
Press ^ or v to adjust the hour. Press OK
Press ^ or v to adjust the minute. Press OK
Press ^ or v to adjust from 5/2d to 7d or 24h mode. Press OK
Press ^ or v to turn DST (Day Light Saving time) On or Off.
Press ☰ to return to normal operation.

* 5/2d: Mon-Fri / Sat - Sun
7d: Mon -Sun, individual day
24h: All days inclusive

4. Adjusting the Program Settings (5/2d)

Press and hold ☰ for 5 seconds.
'P01 & PrOg' will appear on the screen. Press OK
Programming for Monday to Friday is now selected.
Press ^ or v to adjust the P1 time. Press OK
Press ^ or v to adjust the P1 temp. Press OK
Repeat this process to adjust P2 to P6 times & temperatures. Press OK
Programming for Saturday to Sunday is now selected.
Press ^ or v to adjust the P1 time. Press OK
Press ^ or v to adjust the P1 temp. Press OK
Repeat this process to adjust P2 to P6 times & temperatures.
Press ☰ to return to normal operation.
While in PROG Mode pressing ⏻ will jump from P1 - P2 etc without changing the temperature.
While in PROG Mode holding ⏻ for 3 seconds will jump to the next day (block of days).

5/2 DAY					
MON - FRI			SAT - SUN		
P1	06:30	21˚C	P1	08:00	21˚C
P2	08:00	10˚C	P2	10:00	10˚C
P3	12:00	10˚C	P3	12:00	10˚C
P4	14:00	10˚C	P4	14:00	10˚C
P5	17:30	21˚C	P5	17:30	21˚C
P6	22:00	10˚C	P6	23:00	10˚C

5. AUTO Mode

When the thermostat is in the AUTO mode it will automatically change the temperature throughout the day according to the schedule set by the user in the programming menu.

If the room temperature falls below the setpoint it will activate the heating.

Note: If the heating is set to 16˚C for Program 6 and during the night the heating falls below 16˚C it will turn on the heating. If you do not want this to happen you should adjust P6 to a lower temperature.

6. Temporary Override

When in AUTO mode, press ^ or v to adjust the temperature setpoint.
'OVERRIDE' will appear on the screen.
Press OK or after 5 seconds the thermostat will operate to this temperature, until the next switching time.
To cancel temporary override, press ☰ to return to the automatic mode.

7. Permanent Override (Manual)

Press ☰ to enter the manual mode (Permanent Override).
'MAN' will appear on the screen.
Press ^ or v to adjust the temperature setpoint.
Press OK or after 5 seconds the thermostat will operate in this permanent override.
To cancel permanent override, press OK to return to the automatic mode.

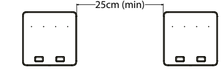
8. On / Off Function

Press ⏻ to turn the thermostat On or Off. When OFF is displayed on the screen the thermostat and zone will be set to OFF.

Note: If the zone is set to constant OFF mode, all other functions are disabled, except for frost protection, which remains active.

9. Important Notes **Caution!**

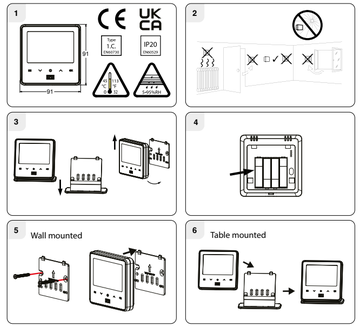
- If the battery low symbol appears on thermostat or EMBER App, the batteries should be changed.
- Good quality batteries are essential to ensure the correct operation of this product. EPH recommend using Duracell or Energizer batteries.
- Do not use low quality battery brands as they can cause the following problems:
  - Stop the wireless communication with the receiver.
  - Can cause the thermostat to reset.
  - Can cause the thermostat to display the incorrect information.
- If a lock symbol appears on your thermostat screen, hold ^ & v for 10 seconds to unlock.
- When installing multiple receivers, it is important to ensure that there is a minimum 25cm between each receiver. If they are too close, they will not be able to pair with each other.



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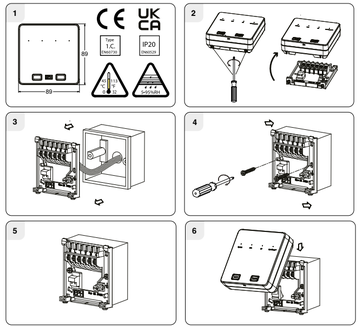
10. Mounting & Installation of the RFRP-TW

- Mount the thermostat between 1.2 and 1.5 metres from floor level.
- Place in a location where temperature can be measured accurately.
- Keep the thermostat away from radiators, direct sunlight, drafts, appliances or hidden heat sources.
- Insert batteries.
- For mounting, fix the mounting plate directly to the wall with the screws provided.
  Attach the thermostat or use the table mount supplied.

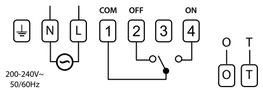


11. Mounting & Installation

- Use a Phillips screwdriver to loosen the screws of the backplate on the bottom of the RF1B. The receiver is lifted upwards from the bottom and removed from the backplate.
- Screw the backplate to the wall with the screws provided.
- Wire the backplate as per the wiring diagram.
- Mount the receiver on the backplate making sure the pins and the backplate contacts are making a sound connection. Push the receiver flush to the surface and tighten the screws of the backplate from the bottom.
- If installing more than one RF1B receiver ensure they are 25cm apart.



12. Internal Wiring



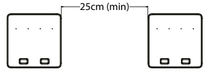
Switching Options

Mains Switching
- Link L to 1.

Low Voltage Switching
- Remove the external controls link from the boiler PCB.
- Connect 1 and 4 to these terminals.

13. Important Notes Caution!

- This device must be connected to a circuit protected by a suitable fuse or circuit breaker.
- Mount the receiver within 20m of the thermostat, maintaining at least 25cm clearance from metal objects or electrical fittings and 1m from electronic or wireless devices for reliable communication.
- When installing multiple receivers, it is important to ensure that there is a minimum 25cm between each receiver. If they are too close, they will not be able to pair with each other.
- Where possible, keep the receivers in the same area of the premises to allow for stable communication.



14. To connect the RFRP-TW thermostat to an RF1B receiver



RFRP-TW RF1B

This function allows the user to connect the RFRP-TW to an RF1B receiver.

Note

The thermostat and receiver are pre-paired for quick installation.

To connect a RFRP-Touch to an RF1B

1. On the RF1B Receiver:

Press and hold [Connect] until the white RF LED begins to flash.

2. On the RFRP-TW:

Press and hold [≡] for 5 seconds.
'P01 & PrOg' will appear on the screen.
Press [^] until **'P03 & rF'** appears on the screen.
Press [OK] to select.
Wait for **'r01'** to appear solid.
Press [OK] to confirm. The thermostat is now connected.

3. On the RF1B Receiver:

The white RF LED will appear solid.

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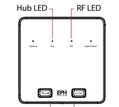
15. How to connect a GW04^{V2} Gateway to the RF1B receiver

Making the RF1B a Hub Receiver

Check that the Hub light on the RF1B receiver is illuminated.

If not, press and hold [Manual] & [Connect] for 5 seconds.

The Hub light will illuminate.



Connecting the RF1B to the GW04^{V2}

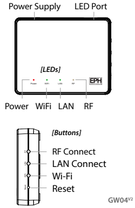
Hold [Connect] on the RF1B until RF LED flashes.

Hold RF Connect button on GW04^{V2} until RF LED flashes.

They will stop flashing. Pairing is now complete.

Note

The receiver and gateway are pre-paired for quick installation.



16. EMBER App Setup

1) Scan the QR code to download the EMBER app.
2) Create an account in the app.
3) Follow the EMBER setup instructions to control your heating from your device.

Download on the App Store
GET IT ON Google play

Full Datasheet

CP5*i*

Easy User Guide

Important: Keep this document

Programmable RF Thermostat



RFRP-TW RF1B GW04^{V2}

20246-CP5i-EUG_EN_PA