

RFRP-TW



Programmable RF Thermostat

Installation and Operation Guide

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Programmable RF Thermostat
Installation Instructions

Factory Default Settings



Temperature indicator:	°C
Keypad lock:	Off
Backlight:	Auto
Operating mode:	Normal
High and low Limits:	OFF
Hysteresis:	0.4°C
AFS - Air / Floor / Sensor:	01 Internal Air Sensor
FHL - Floor High Limit:	26°C
Temperature Selection Range:	Htg (Heating Parameters)

Frost Protection



5°C

Frost protection is built into this thermostat.

It has a factory default of 5°C and is adjustable from 5...15°C.

When frost protection is activated the thermostat will switch on the boiler when the temperature drops below the setpoint.

This symbol ❄️ will show on the screen when frost protection is active.

Frost protection is only active in OFF and Holiday mode.

Specifications

Power supply / Input:	4 x AAA Alkaline Batteries	
Power consumption:	<1W	
Temperature range:	5...35°C	
Ambient temperature:	0...45°C	
Ambient admissible humidity:	5-95% RH	
Dimensions:	91 x 91 x 23mm	
Internal temperature sensor:	NTC 100K	
Backlight:	White	
IP rating:	IP20	
Pollution degree:	2	
Temperature range:	Heating	5 ... 35°C
	CYL Hot Water	5 ... 90°C
Hysteresis (Switching differential):	Heating	0 ... 1°C (0.1°C increments)
	CYL Hot Water	0 ... 20°C (0.5°C increments)
Automatic action:	1C	

Note: When CYL (Hot Water) range is selected an NTC10K - Plug must be used. This is sold separately.

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.

Mounting & Installation

Caution!

- Installation and connection should only be carried out by a qualified person.
- Only qualified electricians or authorised service staff are permitted to open the thermostat.
- If the thermostat is used in a way not specified by the manufacturer, its safety may be impaired.
- Prior to setting the thermostat, it is necessary to complete all required settings described in this section.

This thermostat can be mounted in following ways:

- 1) Directly mounted on a wall.
- 2) Table mounted - Stand Included.

Note: For accurate temperature control it is recommended to mount the thermostat as per the installation drawing on Page 11.

***If installing multiple RFRP-TW's please see page 54 - 57.**

Note: If installing multiple RFRP-TW's please ensure to keep a minimum of 25cm distance between receivers.

Mounting & Installation continued

- 1) Remove the thermostat from its packaging.
- 2) Choose a mounting location so that the thermostat can measure the room temperature as accurately as possible.
 - Mount the thermostat 1.5 meters above the floor level.
 - Prevent direct exposure to sunlight or other heating / cooling sources.
- 3) There is a battery compartment located on the back of the thermostat. Remove the stand or lift upwards from the wall. Apply downward pressure to remove the cover. Fit the stand or mount back to the wall.
- 4) Insert the 4 x AAA batteries provided and the thermostat will turn on.
- 5) For wall mounted installation, fix the backplate directly to the wall with the screws provided. Attach the thermostat to the mounting plate, see example on page 11.
- 6) For table mounted installation, attach the thermostat to the table mount, see example on page 11.

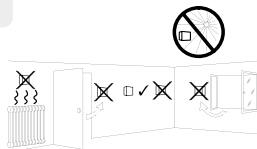
1

UK
CAType
1C
EN60730

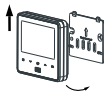
CE

IP20
EN60529

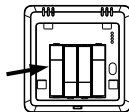
2



3

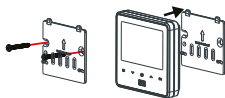


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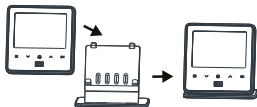
5

Wall mounted



6

Table mounted



Important Notes

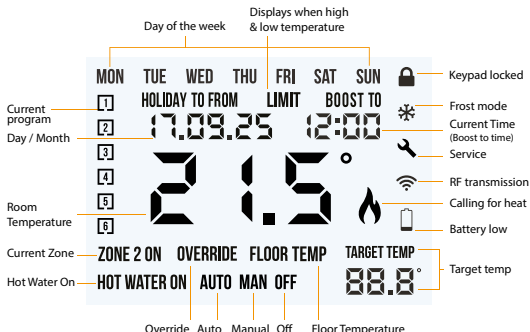
- Good quality batteries are essential to ensure the correct operation of this product. EPH recommend using Duracell or Energiser batteries.
- Do not use low quality battery brands as they can cause the following problems:
 - Stop the wireless communication with the receiver.
 - Can cause the thermostat to reset.
 - Can cause the thermostat to display the incorrect information.
- When the battery low symbol  appears on the RFRP-TW or EMBER App. The batteries should be changed immediately.
- If a  Symbol appears on your thermostat screen, please see page 18 for unlocking instructions.
- If 'OVERRIDE' appears on your thermostat screen, please see page 16.



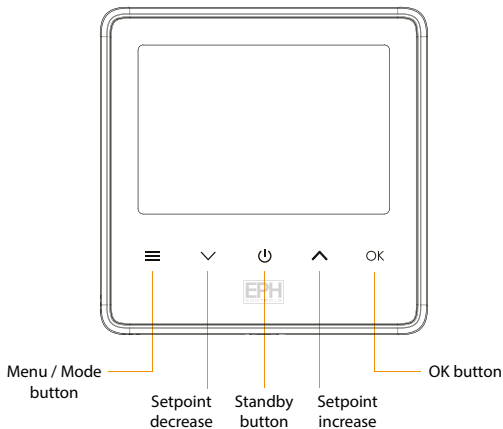
Programmable RF Thermostat

Operating Instructions

LCD Display



Buttons



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. See Page 23 for programming instructions.

Note: If the heating is set to default Program 6 is 16°C. If 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.

Temporary Override

When in AUTO mode, press  or  to adjust the temperature setpoint. 'OVERRIDE' will appear on the screen.

Press  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.

Permanent Override

Press  to enter the manual mode (Permanent Override).

'MAN' will appear on the screen.

Press  or  to adjust the temperature setpoint.

Press  or after 5 seconds the thermostat will operate in this permanent override.

To cancel permanent override, press  to return to the automatic mode.

Adjusting the Target Temperature

Press  to increase the target temperature from 5-35°C.

Press  or wait 5 seconds. The target temperature is now saved.

Press  to decrease the target temperature from 5-35°C.

Press  or wait 5 seconds. The target temperature is now saved.

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 in the constant OFF mode all other functions are disabled except for frost protection, which remains active.

Locking the Keypad

To lock the thermostat, press and hold  and  for 10 seconds.

 will appear on the screen. The buttons are now disabled.

To unlock the thermostat, press and hold  and  for 10 seconds.

 will disappear from the screen. The buttons are now enabled.

Battery low warning

When the batteries are almost empty, the  symbol will appear on the screen.

The batteries must now be replaced or the unit will shut down.

A good quality brand must be used.

Replacing the batteries

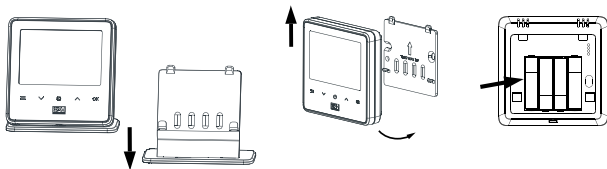
There is a battery compartment located on the back of the thermostat.

Remove the stand or lift upwards from the wall.

Apply downward pressure to remove the cover.

Insert the 4 x AAA batteries and the thermostat will turn on.

Fit the stand or mount back to the wall.



Menu

This menu allows the user to adjust additional functions.

To access the menu, press and hold  for 5 seconds.

When in the installer menu, press  or  to navigate and press  to select. Use  to go back a step.

P01: Programming Mode

P02: Setting the Time & date

P03: RF Connection

P04: Operating Mode

P05: Hi Lo (limiting the thermostat)

P06: Hysteresis (differential)

P07: Calibration

P08: Frost Protection

P09: AFS

P10: FHL

P11: Holiday Mode

P12: Backlight

P13: PIN

P15: Temperature Selection Range

P16: Reset

Exit: Exit from menu

P01 Programming

Factory Program Setting 5/2d

5/2 Day						
	P1	P2	P3	P4	P5	P6
Mon-Fri	06:30	08:00	12:00	14:00	17:30	22:00
	21°C	10°C	10°C	10°C	21°C	10°C
Sat-Sun	08:00	10:00	12:00	14:00	17:30	23:00
	21°C	10°C	10°C	10°C	21°C	10°C

7 Day						
	P1	P2	P3	P4	P5	P6
Mon-Fri	06:30	08:00	12:00	14:00	17:30	22:00
	21°C	10°C	10°C	10°C	21°C	10°C
Sat-Sun	08:00	10:00	12:00	14:00	17:30	23:00
	21°C	10°C	10°C	10°C	21°C	10°C

24 Hour						
	P1	P2	P3	P4	P5	P6
Everyday	06:30	08:00	12:00	14:00	17:30	22:00
	21°C	10°C	10°C	10°C	21°C	10°C

Programming Modes

The RFRP-TW Programmable RF Thermostat has the following programming modes available:

- | | |
|---------------------|---|
| 5/2 Day mode | Programing Monday to Friday as one block and Saturday and Sunday as a 2nd block.

Each block can have 6 different times and temperatures. |
| 7 Day mode | Programming all 7 days individually with different times and temperatures. |
| 24 Hour mode | Programming all 7 days as one block with the same time and temperatures. |

If 7 D mode is selected, you can program each day of the week with 6 individual times and temperatures.

If 24H mode is selected, you can only program each day of the week with the same 6 times and temperatures.

See page 25 to select 5/2D, 7d or 24hr mode.

Adjust the program setting in 5/2 Day mode

Press and hold  for 5 seconds.

'P01 & Prog' will appear on the screen.

Press  to select.

Programming for Monday to Friday is now selected.

Press  or  to adjust the P1 time.

Press 

Press  or  to adjust the P1 temp.

Press 

Repeat this process to adjust P2 to P6 times & temperatures. Press 

Programming for Saturday to Sunday is now selected.

Press  or  to adjust the P1 time.

Press 

Press  or  to adjust the P1 temp.

Press 

Repeat this process to adjust P2 to P6 times & temperatures.

Press  to return to automatic mode.

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).

Copy Function

Copy function may only be used if the thermostat is in the 7d mode.

Press and hold  for 5 seconds.

'P01 & Prog' will appear on the screen.

Press  to select.

Select the day of the week you want to copy from.

Hold  for 3 seconds.

The day of the week that you have selected will be shown with 'COPY'.

The next day will begin to flash on the top of the screen.

Press  to copy the times and temperatures to that day.

Press  to skip a day.

You can copy to multiple days by using .

Press  when copying has been completed.

P02 Setting the date, time & programming mode

Press and hold  for 5 seconds.

'P01 & Prog' will appear on the screen.

Press  until 'P02 & tInE' appears on the screen.

Press  to select.

Press  or  to adjust the year.

Press 

Press  or  to adjust the month.

Press 

Press  or  to adjust the day.

Press 

Press  or  to adjust the hour.

Press 

Press  or  to adjust the minute.

Press 

Press  or  to adjust from 5/2d to 7d or 24h mode.

Press 

Press  or  to turn DST (Day Light Saving time) On or Off.

Press  to return to normal operation.

P03 Connecting a RFRP-TW to a RF1B



RFRP-TW



RF1B

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

To connect a RFRP-TW to an RF1B

1. On the RF1B Receiver:

Press and hold  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  to select.

Wait for 'r01' to appear solid.

Press  to confirm the thermostat is connected.

3. On the RF1B Receiver:

The white RF LED will appear solid.

P03 Connecting a RFRP-TW to a RF2B continued



RFRP-TW



RF2B

This function allows the user to connect a RFRP-TW an RF2B Receiver.

To connect a RFRP-TW to an RF2B

1. On the RF2B receiver:

Press and hold  until the white RF1 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  to select.

Wait for 'r01' to appear.

Press  to confirm the thermostat is connected.

3. On the RF2B:

The white RF1 and RF2 LED will appear solid.

P04 Operating Mode (Normal / Optimum Start / TPI)

There are three settings for selection, Normal, Optimum Start or TPI mode.
The default setting is Normal.

Press and hold  for 5 seconds.

'P01 & Prog' will appear on the screen.

Press  until 'P04 & nOr' appears on the screen.

Press  to select.

Use  and  to select between:

nOr (Normal mode)

oS (Optimum Start)

tPi (Time Proportional Integral mode)

Press  to confirm the mode.

Press  to return to normal operation.

Nor (Normal Mode)

When the thermostat is in Normal mode, the thermostat will try to reach the target temperature at the program time.

Example: Program 1 on the thermostat is 21°C for 06:30am and the room temperature is 18°C. The thermostat will start the heating at 06:30am and the room temperature will start to increase.

P04 Operating Mode continued

OS (Optimum Start Mode)

When the thermostat is in Optimum Start mode, the thermostat will try to reach the target temperature by the start time of the next program. This is done by setting the Ti (time interval) on the thermostat in this menu to 10, 15, 20, 25 or 30. This will allow the thermostat 10, 15, 20, 25 or 30 minutes to increase the room temperature by 1°C.

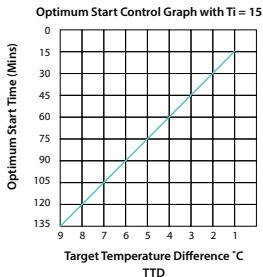
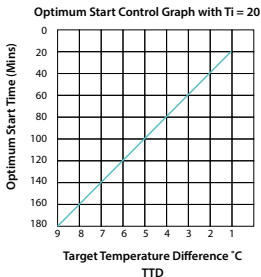
Ti can be set when OS is selected in the installer menu.  20

To achieve the target temperature when the program starts, the thermostat will read:

1. The Room Temperature (RT)
2. The Setpoint Temperature (ST)
3. The Target Temperature Difference (TTD) is the difference between the setpoint temperature and the room temperature .

The time (in minutes) that it will take to overcome (TTD) is called Optimum Start Time (OST) and its maximum value is 3 hours = 180 mins. This is subtracted from the start time.

As the temperature increases the thermostat will recalculate the OST if the temperature is increasing too quickly.

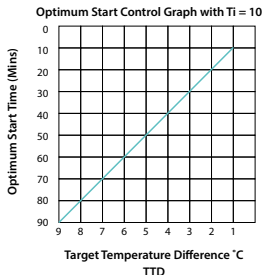


▲
Example when $T_i = 20$

Program 1 on the thermostat is 21°C for 06:30am and the room temperature is 18°C. The thermostat will start the heating at 05:30am to reach 21°C for 06:30am @ $T_i=20$.

Example when $T_i = 10$ ►

Program 1 on the thermostat is 21°C for 06:30am and the room temperature is 18°C. The thermostat will start the heating at 06:00am to reach 21°C for 06:30am @ $T_i=10$.



P04 Operating Mode continued

Time Proportional Integral Mode (TPI)

When the thermostat is in TPI mode and the temperature is rising in the zone and falls into the Proportional Bandwidth section, TPI will start to affect the thermostats operation. The thermostat will turn on and off as it gains heat so that it doesn't overshoot the target by too much. It will also turn on if the temperature is falling so it doesn't undershoot the target which will leave the user with a more comfortable level of heat.

There are 2 settings that will affect the thermostats operation.

1. The number of heating cycles per hour.
2. The Proportional Bandwidth.

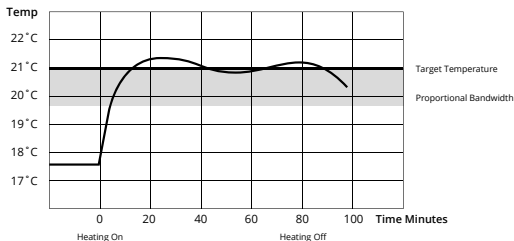
1. CyC – Number of Heating Cycles per hour  **6 Cycles**

This value will decide how often the thermostat will cycle the heating on and off when trying to achieve the target temperature. You can select 2, 3, 6 or 12.

2. Pb - Proportional Bandwidth 🏠 2°C

This value refers to the temperature below the target at which the thermostat will start to operate in TPI control. You can set this temperature from 1.5°C to 3.0°C in 0.1°C increments.

Graph (33.1): TPI Control



Example: Program 1 on the thermostat is 21°C for 06:30am and the room temperature is 18°C. The thermostat will start the heating at 06:30am and the room temperature will start to increase then but will switch itself off before it reaches temperature and allow the room temperature to increase naturally – this cycle may begin again if the thermostat isn't reaching temperature.

P04 Operating Mode continued

Time Proportional Integral Mode (TPI)

Once TPI mode is selected, 'CYC' and '06' will appear on the screen.

Use  and  to select from 2, 3, 6 or 12.

Press  to confirm.

'P Band' and '2.0' will appear on the screen.

Use  and  to select from 1.5 to 3.0.

Press  to confirm.

Press  to return to normal operation.

P05 Setting High & Low Limits OFF

This menu allows the installer to change the minimum & maximum temperatures that the thermostat can be set to between 5...35°C.

Press and hold  for 5 seconds.

'P01 & Prog' will appear on the screen.

Press  until 'P05 & HI LO' appears on the screen.

Press  to select.

'HIGH LIMIT' will appear on the screen, the temperature will begin to flash.

Use  and  to select the high limit for the thermostat.

Press  to confirm.

'LOW LIMIT' will appear on the screen, the temperature will begin to flash.

Use  and  to select the low limit for the thermostat.

Press  to confirm.

Press  to return to normal operation.

'LIMIT' will appear on the screen.

P06 Hysteresis HOn 0.4°C HOFF 0°C

This menu allows the installer to change the switching differential of the thermostat when the temperature is rising and falling.

If 'HOn' is set at 0.4°C and the setpoint is 20°C, then the thermostat will switch on when the temperature drops below 19.6°C.

If 'HOFF' is set at 0.2°C and the setpoint is 20°C, then the thermostat will switch off when the temperature reaches 20.2°C.

Press and hold  for 5 seconds.

'P01 & Prog' will appear on the screen.

Press  until 'P06 & HOn' appears on the screen.

Press  and the 'HOn' temperature will begin to flash.

Use  and  to select the 'HOn' temperature.

Press  and the 'HOFF' temperature will begin to flash.

Use  and  to select the 'HOFF' temperature.

Press  to confirm.

Press  to return to normal operation.

P07 Calibrate

This menu allows the installer to calibrate the temperature of the thermostat.

Press and hold  for 5 seconds.

'P01 & Prog' will appear on the screen.

Press  until 'P07 & CAL' appears on the screen.

Press  to select.

'CAL' and the actual temperature will appear on the screen.

Press  and  to calibrate the temperature.

Press  to confirm.

Press  to return to normal operation.

P08 Frost Protection 5°C

This function allows the user to activate or deactivate frost protection.

Frost protection can be set from 5...15°C.

When frost protection is activated, the thermostat will switch on the boiler when the temperature drops below the setpoint.

Frost protection is only active in OFF mode and Holiday mode.

Press and hold  for 5 seconds.

'P01 & Prog' will appear on the screen.

Press  until 'P08 & Fr' appears on the screen.

Press  to select. 'ON' will flash on the screen.

You now have two choices:

1. Press  to confirm frost protection,
Press  to select the frost protection temperature between 5...15°C.
Press  to confirm and you will return to the menu.
2. Press  to turn the frost protection OFF.
Press  to confirm and you will return to the menu.
Press  to return to the home screen.

P09 AFS - Air / Floor Sensor (01 Internal air sensor)

This function allows the user to select between 3 different temperature sensor options.

01 Internal air sensor

This option allows the user to record the room temperature using the internal sensor. This is the default option.

02 External air sensor

This option allows the user to record the temperature of an adjacent room. (NTC10K Plug temperature sensor required).

03 Internal air sensor with an external high limit sensor

This option allows the user to record the room temperature with the internal sensor while having the external sensor record the floor temperature to prevent overheating. (NTC10K Plug temperature sensor required).

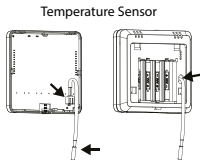
Press  until 'P09 & AFS' appears on the screen.

Press  to select. '01' will flash on the screen.

Use  and  to select between 01, 02, 03.

Press  to confirm.

Press  to return to normal operation.



P10 FHL - Floor High Limit 26.0°C

This function allows the user to select the high limit temperature of the external sensor. Selectable temperature range 5°C – 45°C.

Temperature Sensor 03 must be selected,

See Page 38 P09 AFS.

Press and hold  for 5 seconds.

'P01 & Prog' will appear on the screen.

Press  until 'P10 & FHL' appears on the screen.

Press  to select.

The high limit temperature will flash on the screen.

Use  and  to choose the desired high limit temperature.

Press  to confirm.

Press  to return to normal operation.

P11 Holiday Function

This function allows the user to switch the thermostat off for a certain period of time.

Press and hold  for 5 seconds. 'P01 & Prog' will appear on the screen.

Press  until 'P11 & HOL' appears on the screen.

'HOLIDAY FROM' will appear on screen.

Press  or  to select the year.

Press 

Press  or  to select the month.

Press 

Press  or  to select the day.

Press 

Press  or  to select the hour.

Press 

'HOLIDAY TO' will appear on screen.

Press  or  to select the year.

Press 

Press  or  to select the month.

Press 

Press  or  to select the day.

Press 

Press  or  to select the hour.

Press 

Press  to return to the home screen.

The thermostat will now return to the mode it was in before the Holiday settings were entered. To cancel Holiday mode, press  once.

P12 Backlight AUTO

There are two settings for selection.

'Aut' The backlight is on for 10 seconds when any button is pressed.

'OFF' The backlight is permanently off.

Press and hold  for 5 seconds.

'P01 & Prog' will appear on the screen.

Press  until **'P12 & bL'** appears on the screen.

Press  to select.

'Aut' will appear on the screen.

Use  and  to change the mode between AUTO and OFF.

Press  to confirm selection.

Press  to return to normal operation.

P13 PIN Lock OFF

This function allows the user to put a PIN lock on the thermostat.

Set Up the PIN

Press and hold  for 5 seconds.

'P01 & Prog' will appear on the screen.

Press  until 'P13 & Pin' appears on the screen.

Press  to select.

'Off' will appear on the screen

Use  to change to On.

'0000' will flash on the screen.

Use  and  to enter to set value from 0 to 9 for the first digit.

Press  to move to the next PIN digit.

When the last digit of the PIN is set, press .

It is necessary to verify the PIN, 'vErI' will appear on the screen

Re enter the PIN code again.

Press .

P13 PIN Lock continued

The PIN is now verified, and the PIN lock is activated.

If the verification PIN is entered incorrectly the user is brought back to the menu. When the PIN lock is active, the  will appear on the screen. When the thermostat is PIN locked, pressing any button will take the user to the PIN unlock screen.

To Unlock the PIN

Press any button, 'UnL' appears on the screen. '0000' will flash on screen.

Use  and  to set the value from 0 to 9 for the first digit.

Press  to move to the next PIN digit.

When the last digit of the PIN is set.

Press . The PIN is now unlocked.

If a PIN has been unlocked on the thermostat, it will automatically reactivate if there is no button pressed for 2 minutes.

To Deactivate the PIN

When the PIN is unlocked (see instructions on Page 32)

Access PIN in the installer menu.

Press , 'ON' will appear on the screen.

Press select 'OFF'.

Press . '0000' will flash on the screen. Enter the PIN.

Press .

The PIN is now disabled.

P15 Temperature Selection Range

This function allows the user to choose between different temperature ranges for various thermostat applications.

Press and hold  for 5 seconds.

'P01 & Prog' will appear on the screen.

Press  until **'P15 & Htg'** appears on the screen.

Press  to select.

'Htg' will flash on the screen.

Press  to select **'CyL'**.

Press  to confirm.

The thermostat will restart and hot water parameters will now be applied.

P16 Resetting the Thermostat

To reset the thermostat to factory settings.

Press and hold  for 5 seconds.

'P01 & Prog' will appear on the screen.

Press  until 'P16 & rSt' appears on the screen.

Press  to select.

'NO' will flash on the screen.

Press .

'YES' will flash on the screen.

Press  to confirm.

The thermostat will restart and revert to its factory settings.

Exit: Exit from Menu

This menu allows the installer to return to the main interface.

It is also possible to exit the installer menu by pressing  whilst in the menu.

Installer menu **OpenTherm®** Instructions

P 17: Setting DHW temperature

P 18: OpenTherm® Information

P 19: DHOP

P 20: Set OpenTherm® Parameters

Exit

P17 Setting DHW temperature

This function allows the installer to change the DHW temperature of the boiler.

The temperature can be set in 0.5°C increments by pressing  and . Press  to select the desired temperature.

This menu is only available when the thermostat is connected to OpenTherm® and DHOP is ON (**P19 OT installer menu**).

Note: P17 - P20 is only available when the receiver is connected to an OpenTherm® appliance.

P18 OpenTherm® Information

This function allows the installer to view information received from the OpenTherm® boiler. It may take a few seconds to load information relating to each parameter. The information that can be shown from the boiler is outlined in the table below.

Displayed on screen	Description	Remark
tSEt	Target water temp	
tFLO	Outlet water temp	
trEt	Return water temp	
tdH	DHW temperature	This is only visible if DHOP is On (P08 OT Installer menu)
tFLU	Flue gas temperature	Dependent on boiler
tESt	Outdoor temperature	Dependent on boiler
nOdU	Modulation percentage	
FLOr	Water flow	This is only visible if DHOP is On (P08 OT Installer menu)
PrES	Water pressure	Dependent on boiler

P19 DHOP

This function allows the installer to activate or deactivate DHW target temperature control from the thermostat. This menu is only available when the thermostat is connected to OpenTherm®

P20 Set OpenTherm® Parameters

This function allows the installer to configure the OpenTherm® parameters.

To access the menu please enter the password “08” by pressing

and .

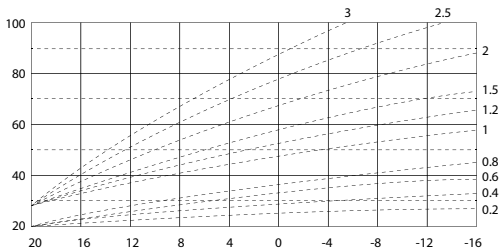
Press to confirm.

The parameters that can be set are outlined in the table on the next page 52.

P20 Set OpenTherm® Parameters continued

Param	Description	Range	Default
HHCH t-1	Maximum setpoint heating	45 - 85 °C	85 °C
LLCH t-2	Minimum setpoint heating	10 - HHCH °C	45 °C
CLI t-3	This allows user to select different climatic curves for weather compensation. This only applies to Boilers with an outside sensor connected.	0.2 - 3.0	1.2
InFL t-4	Influence of room sensor on modulation of the boiler. Recommended value is 10.	0 - 20	10
HHbO t-5	This is the target setpoint for your CH flow temperature. Note: this value must be within the range of HHCH and LLCH.	HHCH Max ≥ID57 ≥LLCH Min	85 °C
Exit	Press OK button to turn back to main interface.		

Climatic Curve



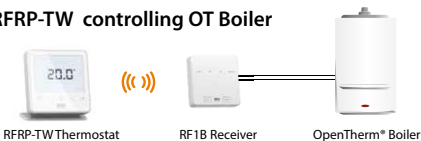
Exit

This function allows the installer to return to the main interface.

It is also possible to exit the installer menu by pressing  whilst in the installer menu.

System architecture

Example A RFRP-TW controlling OT Boiler



This function allows the installer to confirm if the thermostat is receiving OpenTherm® information from the boiler.

Press and hold  for 5 seconds.

'P01 & Prog' will appear on the screen.

Press  until 'P18 & InFO' appears on the screen. Press  to select.

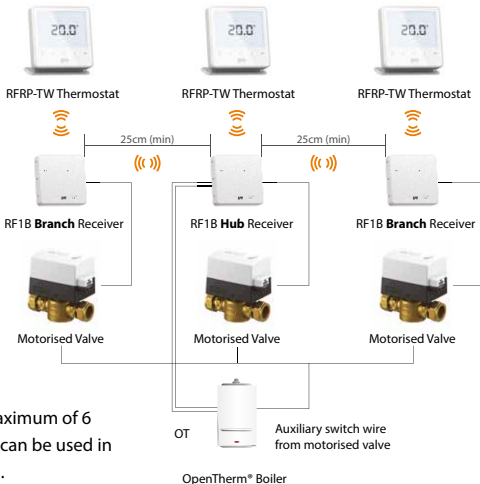
If 'P01 to P16' is visible and 'P17' does not appear on the screen, the thermostat is not communicating via OpenTherm®.

Note: To control an appliance with OpenTherm® run a dedicated two core cable from the OpenTherm® connection on the RF1B to the OpenTherm® connection on the appliance.

Note: When connected via OpenTherm® the OpenTherm® LED on the RF1B receiver will be illuminated.

System architecture continued

Example B Multiple RFRP-TW controlling OT Boiler



Note: A maximum of 6 RFRP-TW's can be used in the system.

Controlling an OpenTherm® Boiler with multiple RFRP-TW's

It is possible to have up to six RFRP-TW thermostats controlling one OpenTherm® boiler. To do this it is necessary to make one of the RF1B receivers into a Hub Receiver. This Hub Receiver will receive data from all of the RFRP-TW thermostats and relay this information to the boiler via OpenTherm®.

Note: The Hub Receiver should have a wired OpenTherm® connection to the boiler. When installing multiple receivers - see important on page 15.

Making your RF1B receiver into a Hub Receiver:

1. The RF1B has an LED to indicate if it is a Hub.
2. Press and hold & for 5 seconds to make the receiver a Hub or Branch.

Note: A Hub receiver is the master receiver in multiple zone installations. A branch receiver is used for connecting additional zones. See Page 59 & 60 for System Architecture.

Note: A Hub receiver can connect to a GW04 Wi-Fi Gateway.

Controlling an OpenTherm® Boiler with multiple RFRP-TW's continued

Identifying if a receiver is a Hub Receiver:

1. If the Hub LED is illuminated the RF1B is a Hub receiver.

Pairing the RF1B receivers together:

1. Hold  on the Hub receiver for 3 seconds.
The RF LED will begin to flash.
2. Hold  on the next receiver to be paired. The RF LED will flash 3 times and then stop. This receiver is now linked.
3. Repeat this process to pair more, up to a maximum of 6 receivers.
4. Press  on the hub to return to normal operation.

Once all units have been paired, allow time for the receivers to begin to communicate and receive OpenTherm® information from the boiler. This may take approximately 2 – 5 minutes.

Disconnecting the RF1B receiver from other Receivers:

1. Hold  &  on the Hub receiver until the Hub LED turns off. This will clear the connection to the branch receivers.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins or other markings on the paper.



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