

Programmable RF room thermostat



RF205-TS programmable room thermostat



RF205-RC RF receiver

1. General

The RF205-TS is a radio controlled room thermostat which requires no wiring and can be fitted in any normal operating environment within a typical 30 metre range of the RF205-RC RF receiver.

The RF205-RC RF receiver should be mounted on a vertical flat surface near the boiler or central heating wiring centre. Do not place it too close to objects which might interfere with the radio signal. It is preferable to mount the receiver such that an imaginary straight line between it and the transmitter thermostat is not obscured by the boiler or any other large metal objects. When installing these devices, please avoid touching the PCB as static damage can occur.

The RF205 control set has already been commissioned, or matched, in the factory. Just connect power to the receiver / put batteries in the transmitter, and the set will communicate. If for any reason you wish to re-establish the RF link please refer to the fourth option under section **8. Configuration Setting**

2. Technical data

Operating voltage: 3V ± 0.2V (DC) for transmitter; 230VAC ± 10% for receiver

Time regulation: < 3s/Day

Load current: 2A

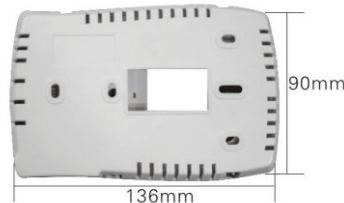
Consumption: <0.06W

Set-point range: 10.0°C - 30.0°C

Accuracy: ±0.5°C

Transmitter power supply: 2 x AA alkaline

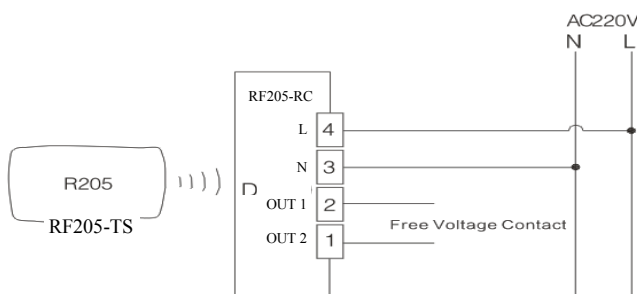
3. Sizes



Thermostat size: 136mm x 90mm x 30mm

Receiver size: 86mm x 90mm x 20mm

4. RF205-RC Receiver fitting and wiring









Open the receiver by springing the two plastic lugs accessible from the top of the back panel. Fit the back panel to the wall surface.

Connect wiring: 4 Live, 3 Neutral, 2 & 1 switched live (volt-free across 1 & 2) or for mains switching link 4 to 2, and take a 230V switched live from 1).











Clip the top cover back on to the back panel. Take care not to touch the PCB in case of static discharge.

RF205 Series
Programmable RF room thermostat

5. Installation instructions

 <p>1) Loosen the screws on the underside of the RF205-TS.</p>	 <p>2) Release the top half of the housing (there is a small clip adjacent to the battery compartment) and open the device. Be careful not to touch the PCB, in case of static discharge.</p>
 <p>3) Please use two screws (provided) to fasten the rear housing of the LCD unit on the wall or box. Several fixing points are provided, including two on 60mm pitch for a standard wall box.</p>	 <p>4) Replace the top housing of the device.</p>
 <p>5) Press lightly to close, and tighten the screws.</p>	 <p>6) Put two AA batteries into the compartment, observing the polarity markings, and slide the cover into position.</p>

6. Keys and function instruction


- “  ”: Power on/off – press briefly to switch the device ON or OFF
- “  ”: Manual Mode.
- “  ”: Programme Run Mode.
- “  ”: Economy – press briefly for Economy mode. Press  to restore Programme Run Mode
- “  ”: Time adjustment. Press the key in sequence: minute-hour-week.
- “  ”: Programme entry Mode - Press the key to access programme setting.
- “  ”: Confirm. Press the key to confirm the setting parameters.
- “  ”: In Programme Run and Manual mode: temperature increase. In Programme Entry Mode: hour, minute or temperature increase.
- “  ”: In Programme Run and Manual mode: temperature decrease. In Programme Entry Mode: hour, minute or temperature decrease.

7. Menu & setting

7.1. Temperature setting.

Press ▲ or ▼ once, the backlight will turn on. Then Press ▲ to increase the set temperature, or press ▼, to reduce the set temperature. From Programme Run Mode, this will initiate Temporary manual mode, which will revert to Programme Run Mode at the next timed setting. See 7.4 below.



7.2. Manual mode setting

Switch to manual mode by pressing , and the  symbol will be displayed on the LCD screen. Having selected Manual mode you can set a fixed temperature. Manual Mode is a permanent selection.


7.3. Weekly Programme Run mode setting

Switch to Programme Run Mode by pressing . The  symbol will be displayed on the LCD screen and the automatic programme will operate.


7.4. Temporary manual mode setting

If both   symbols are visible in the display, the device is in Temporary Manual Mode. During Weekly Programming Mode, press ▲ or ▼ once to turn on backlight (to prevent misoperation), and press ▲ or ▼ again to check the set-point in the current period of Weekly programming mode. Then press ▲ or ▼ to set the desired temperature for the Temporary Manual Mode. The thermostat runs according to the Temporary set-point during Temporary Manual Mode and returns to Weekly Programme Run Mode at the next period start time (set-point in the Temporary Manual Mode will not be stored).




7.5. Confirmation key

At any time while programming, press  to confirm programming, changed data is stored, and the device will revert to Weekly Programme Run Mode.

7.6. Economy key

Press the 'moon' button to switch to economy mode. The moon symbol will show in the display. In Economy mode you can set the temperature value to a lower 'economy' level to suit your requirements – e.g. 8 / 10 / 12 degrees – using the ▲ or ▼ buttons. Press the  button to go back to the normal Programme Run mode.

7.7. Clock Setting

Press  to set minute, hour and week. Press ▲ and ▼ to change the flashing value. Press  to move to the next step, or press  to confirm.

7.8. 5+2 Day programmable schedule setting

Press **P** to enter the Weekly programming mode setting. Operation sequence:

Start time setting of 1st period of Monday to Friday morning →

Setpoint setting of 1st period of Monday to Friday morning →.....→

Continue with the same sequence to set subsequent time / temperature requirements for Monday – Friday until you reach Saturday / Sunday setting of 6th period of Saturday & Sunday Night →

Setpoint setting of 6th period of Saturday & Sunday when Night Sleep.

After setting each parameter, press **P** to select the next parameter setting.

Press ▲ and ▼ to adjust the parameters.

Please follow the sequence below to view and (if required) adjust each time and temperature set-point.

RF205 Series

Programmable RF room thermostat

Period Indication	Weekday(Mon.–Fri.)		Weekend(Sat.–Sun.)	
	time	Temp.	time	Temp.
1 Morning Wake Up	06:00	20°C	06:00	20°C
2 Morning out	08:00	15°C	08:00	20°C
3 Noon Home	11:30	15°C	11:30	20°C
4 Noon Out	13:30	15°C	13:30	20°C
5 Night Home	17:00	22°C	17:00	20°C
6 Night Sleep	22:00	15°C	22:00	20°C
	The first period of the next day		The first period of the next day	

8. Configuration Setting

Enter into Configuration Setting by pressing **P** briefly during Power-off Status. Then press **P** sequentially to view and amend (if required) parameters noted below.

You can confirm any changed parameters by pressing **↵**.

Display symbols	Options Properties	Remark
01	Inside sensor temperature correction	Range: -9 to +9°C Press ▲ or ▼ for adjustment.
02	Temperature differential	Range: 1 – 5 °C Press ▲ or ▼ for adjustment.
03	5+2 days, 6+1 days or 7 days programmable schedule selection	A1: 5+2 days programmable A2: 6+1 days programmable A3: 7 days programmable Press ▲ or ▼ to switch among A1, A2 and A3.
00 or AA	Display IP address XX XX	The LCD panel and receiver has been matched already in the factory. 00: stands for waiting for match (Stay close to receiver, press ↵ for matching) AA: stands for matched already.

9. Warranty

This product has 12 months warranty from purchase date. Malfunctions due to mis-use or mis-application are not covered by the warranty.

10. ErP Directive (EU regulation no. 811/2013)

ErP Class I : Contribution to system energy efficiency: 1%

On/off room thermostat: A room thermostat that controls the on/off operation of a heater. Performance parameters ... are determined by the thermostat's mechanical construction.