RFCA - RF Cylinder Thermostat

Contents

Important: Keep this document

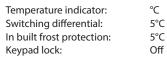Prior to setting the thermostat, it is neccessary to complete all required settings described in this section.

CAUTION!

Only qualified electricians or authorised service staff are permitted to open the thermostat.

Ensure that this wireless enabled thermostat is installed 1 metre from any metalic object, television, radio or wireless internet transmitter.

1. Factory default settings

Temperature indicator:	°C
Switching differential:	5°C
In built frost protection:	5°C
Keypad lock:	Off

2. Specifications & wiring

Power Supply:	2 x AAA Alkaline Battery
Power consumption:	50 uA
Battery replacement:	Once per year
Temp. Control Range:	10...90°C
Dimensions:	84 * 84 * 30mm
Temp. sensor:	NTC 10K Ohm @ 25°C - 1.5m probe type
Temp. indication:	°C

3a Mounting of temperature sensor

ON CYLINDER: To ensure accurate control of your cylinder, the temperature sensor should be mounted on the bottom 1/3 of the cylinder. It is essential that the sensing element is in direct contact with the cylinder and that there is no insulation between it and the cylinder. 60°C is the temperature level required in order to prevent the build up of legionella bacteria. The temperature sensor can be fixed to the cylinder using the provided foil tape.

ON PIPEWORK: To ensure accurate control, the temperature sensor should be mounted on the pipework as tightly as possible. It is essential that the sensing element is in direct contact with the pipework and that there is no insulation between it and the pipework. The temperature sensor can be fixed to the pipework using the provided foil tape.

3b Mounting of thermostat

The thermostat should be mounted in a position that will make reading the display convenient.

The thermostat can be fitted to: 1. Recessed conduit boxes

2. Surface mounting boxes

3. Directly on walls

4. Installation

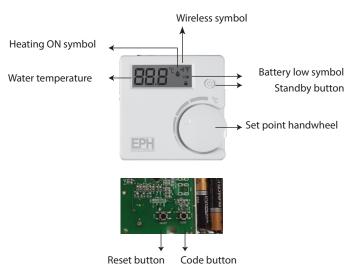Press the button on the bottom of the thermostat.

The front housing will detach from the baseplate.

Insert the batteries (provided) into the thermostat.

Mount the unit as described in section 3. Ensure the cable sensor is connected to terminals Con 3 and Con 4.

Offer the baseplate up to the thermostat. Snap it into position to close.

5. Button / symbol description

Wireless symbol
Heating ON symbol
Water temperature
Battery low symbol
Standby button
Set point handwheel
Reset button
Code button

6. Resetting the thermostat

Press the ⬭ button on the bottom of the thermostat, the front housing will detach from the baseplate.

Insert the batteries into the thermostat.

Press the reset button on the PCB, 'NO' will flash on the screen.

Rotate the hand wheel clockwise until 'YES' appears on the screen.

Press the hand wheel once to confirm the setting.

The thermostat has now been reset and the current temperature will appear on the screen.

7. On / Off function

By pressing the On / Off button, this turns the thermostat on and off.

8. Lock function

To lock the thermostat, press the hand wheel for 10 seconds.

🔒 symbol will appear on the screen.

To unlock the thermostat, press the hand wheel for 10 seconds.

🔒 symbol will disappear from the screen.

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9. To connect the RFCA thermostat to the RF1 receiver

On the front of the RF1 receiver

Press the connect button. The "System On" green LED will begin to flash.

On the RFCA thermostat

Press the ⬭ button on the bottom of the thermostat, the front housing will detach from the baseplate.

Press the CODE button on the printed circuit board.

When r1 appears on the screen, press the hand wheel once.

The thermostat is now connected to the receiver.

10. To disconnect the RFCA thermostat from the RF1 receiver

On the RF1 receiver

Press the reset button on the right side of the housing.

Within 2 seconds, press the connect button.

The RF1 receiver is now disconnected from the RFRA thermostat.

On the RFCA thermostat

Press the ⬭ button on the bottom of the thermostat, the front housing will detach from the baseplate.

Press the RESET button on the printed circuit board.

"NO" will flash on the screen.

Rotate the hand wheel clockwise until "YES" appears on the screen.

Press the hand wheel once to confirm the setting.

The thermostat is now disconnected from the receiver.