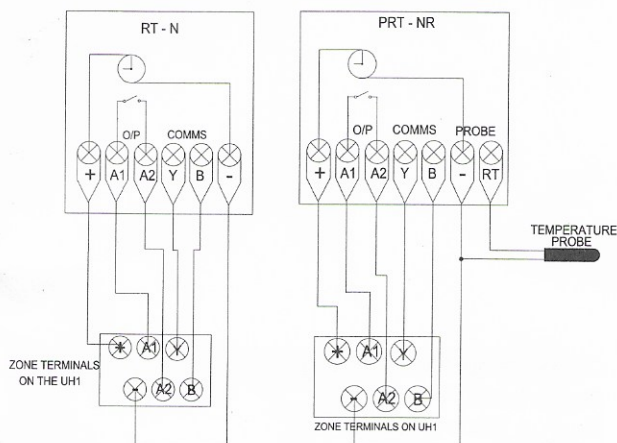


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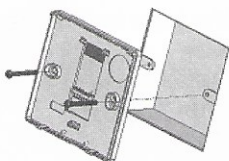
Step 2

Carefully unplug the ribbon connector which is plugged in to the front half of the thermostat.

Place the thermostat front half somewhere safe.

Terminate the thermostat as shown in the diagrams at the back of this booklet.

Screw the thermostat back plate on to the back box.



3

11. Setting the Comfort Levels (except non programmable mode)

To begin programming the comfort levels, press $\odot$ is displayed as well as the number 1 and Mo, Tu, We, Th, Fr,

You are now able to program the first comfort level for the weekday. You first program a time, followed by the desired temperature.

Enter the first comfort level time. (eg - 07.00)
Press H to accept this time setting.
Then enter the desired temperature. (eg - 21°)
Press H to accept this temperature setting.

You should now repeat this operation for comfort levels 2,3,4. program these in the same way. You will notice that whilst programming the weekend levels, Sa, Su is highlighted on the display.

12

2. Terminology**Programmable or Non Programmable**

On the RT-N, you can select one of two modes. Programmable allows you to program comfort levels (see page 7) Non programmable allows you to enter a single set-point temperature.

Set Temperature

This is the temperature the thermostat is currently controlling to. At any time, you can press the Up/Down arrow key and the display will show the Set Temperature for 30 seconds.

RT (Room Temperature)

This is the actual room temperature.

Heating Override Off

Press H to manual turn off the heating.

5

7. Temperature Calibration

When you first install the thermostat, you must calibrate it.

Turn off the thermostat by pressing $\odot$
Press $\odot$ and H for 3 seconds

The display will show the actual temperature.
Use the Up/Down arrow keys to adjust the temperature to the correct value.

Press $\odot$ to turn off the thermostat and to store the new setting.

8. Enable/Disable Tamper Proof Facility

Turn off the RT-N

Press "A" and Up keys for 10 seconds

00 = Disabled 01 = enabled

To activate keylock, see page 13

10

Comfort Levels

The programmable thermostats have 4 comfort levels per weekday/weekend.

The new method of control is not to have on / off times but to allow the occupant to set varying temperature levels throughout the day.

For example;

08.00 - 21 (Wake) 09.30 - 16 (Go to Work)
16.30 - 22 (Return home) 23.00 - 17 (Sleep)

As the programmable thermostats incorporate a 5/2 day clock, 4 levels can be programmed for the weekday and 4 different levels can be programmed for the weekend.

3. Selecting Programmable or Non Programmable

On the RT-N you can select either programmable or non programmable (see page 5)

Turn off the RT-N and press A for 10 seconds.
Select H0 for non programmable
Select H1 for programmable
Turn off to store

4. Setting the communication number

Only required when TR1 / MC on the system.

Turn the thermostat off by pressing
Press and H for 3 seconds.
The display will show "XX" °C
Press A to display the communication number.

Using the Up/Down keys enter a unique communication number.

OSMA Underfloor Heating
 Apple Lane, Trade City
 Sowton Trading Estate
 Sidmouth Rd
 Exeter
 Devon
 EX2 5GL

Thermostat Helpline: 01254 776343

Operating Instructions

RT-N
 PRT-NR



As described earlier, you should think of these temperatures as "wake, leave, return and sleep"
 For any unused levels, set the time and temperature to ---

After you have programmed the week day comfort levels you are prompted to program the weekend levels.

You should program these in the same way.

12. Activate / De-activate Tamper Proof

If enabled (see page 10)

With the thermostat turned on,

Press "A" and Up keys for 10 seconds

A moon symbol will be displayed to indicate the thermostat keypad has been locked.

Repeat to de-activate

13

1. Installation

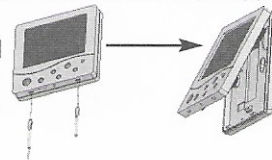
1. The thermostat is flush mount, a back box of 35mm should have been sunk in the wall prior to installation.

2. The thermostat should be mounted at around 1.5m or eye level.

3. Do not install near a direct heat source or in direct sunlight. Mount where air can freely circulate around the sensor.

Step 1

Carefully separate the front half of the thermostat from the back plate by placing a small flat head terminal driver in to the slots on the bottom face of the thermostat.



2

9. Setting the Clock (except non programmable mode)

With the thermostat turned on, press $\oplus$ twice
 $\oplus$ will be displayed.

Use the Up/Down arrow keys to set the minutes

Press H to accept the minutes

Use the Up/Down arrow keys to set the hours

Press H to accept the hours

Use the Up/Down arrow keys to set the week day.

To store the new setting, press A

10. Manual Heating Override (Frost Protection)

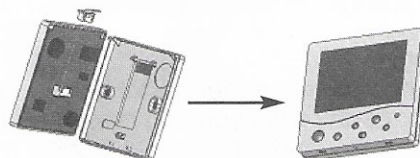
To put the thermostat in to frost protection mode, press H. A frost protection symbol will appear on the screen.

To cancel the frost protection mode, press H again. The frost symbol will be removed.

11

Step 3

Re-connect the thermostat ribbon cable and clip the two halves together.



Step 4

Turn on the power to the thermostat and allow the thermostat to stabilise for 1 hour before calibrating.

4

5. Frost Protection (Thermostat Off)

To enable this operation for the steps below.

Turn the thermostat off by pressing 
Press  for 3 seconds.
Select 01 to enable
Select 00 to disable

The thermostat will maintain the frost protection.

6. Frost Protection Temperature

On the RT-N, you can alter the frost protection temperature.

Turn off the RT-N
Press  and A for 3 seconds.
You can now enter the frost temp (07 - 17°C)
Turn off the thermostat to store the setting.

Temperature Calibrating

When the thermostat is first installed it requires calibrating. This means taking an accurate reading from a thermometer and then adjusting the thermostat to compensate for any difference. This only needs to be done once and it is recommended that it is done after the thermostat has been operating for 1 hour.

Clock

The programmable models in the range have a built in clock. This is displayed in 24 hr format.

Frost Protection (Thermostat Off)

The thermostat can be made to offer frost protection even when the thermostat is turned off by the On/Off button. In order for this to work, this function must be enabled.