

Operating Instructions

Model: DT / DT-N

Version 3

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What is a room thermostat?

A room thermostat simply switches the heating system on and off as necessary. It works by sensing the air temperature, switching on the heating when the air temperature falls below the thermostat setting, and switching it off once this set temperature has been reached.

Turning a room thermostat to a higher setting will not make the room heat up any faster. How quickly the room heats up depends on the design of the heating system, for example, the size of the boiler and radiators.

Neither does the setting affect how quickly the room cools down. Turning a room thermostat to a lower temperature will result in the room being controlled at a lower temperature and saves energy. The heating system will not work if a time switch or programmer has switched it off.

The way to set and use your room thermostat is to find the lowest temperature setting you are comfortable with, and then leave it alone to do its job. The best way to do this is to set the room thermostat to a low temperature – say 18°C – and then

turn it up by 1°C each day until you are comfortable with the temperature. You won't have to adjust the thermostat further. Any adjustment above this setting will waste energy and cost you more money.

If your heating system is a boiler with radiators, there will usually be only one room thermostat to control the whole house. But you can have different temperatures in individual rooms by installing thermostatic radiator valves (TRVs) on individual radiators. If you don't have TRVs, you should choose a temperature that is reasonable for the whole house. If you do have TRVs, you can choose a slightly higher setting to make sure even the coldest room is comfortable, then prevent any overheating in other rooms by adjusting the TRVs.

Room thermostats need a free flow of air to sense the temperature, so they must not be covered by curtains or blocked furniture. Nearby electric fires, televisions, wall or table lamps may prevent the thermostat from working properly.

Installation Procedure

Do's

1. Do mount the thermostat at eye level.
2. Do read the instructions fully so that you can get the best from our product.

Don'ts

1. Do not install near a direct heat source as this will affect the workings of the thermostat.
2. Do not push hard on the LCD otherwise you will damage the liquid crystal display and this is not repairable.

Installation

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

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.




Step 2

Place the thermostat front somewhere safe. Terminate the thermostat as shown in the diagrams at the back of this booklet.

Step 3

Clip the front of the thermostat to the back plate.

Icons Explained

Symbol	Description
	Heat On Icon <i>Shown when the heating is On Flashing when the optimum starts is in operation</i>
	Frost On Icon (Heating Off) <i>Shown when the heating is switched off and is protecting against frost only</i>
	Keylock Icon <i>Shown when the keypad is locked</i>

Temperature Display

Room Temp = This is the current room temperature.

SET = This is the temperature you are trying to achieve in your home.

Locking The Thermostat

The thermostat has a key-lock facility. To enable follow these steps:

- Press and hold the A and Down Key for 10 seconds
- You will see the lock symbol appear
- To unlock, repeat the steps above

Temperature Set

Using the Up or Down arrow keys allows you to adjust the set temperature. When you press either of these keys, you will see the word SET and the desired temperature.

Press A to accept.

Heat On / Off

Frost Protect Mode: Pressing the Power button once will place the thermostat in frost protect mode. In this mode, the thermostat will display the frost icon and will only turn the heating on should the room temperature drop below the set temperature (see page 9) Should the heating be turned on whilst in frost mode, the flame symbol will be displayed. To cancel the frost protect mode, press the On button.

Thermostat Off: To turn the thermostat off completely, press and hold the Off button. The display and heating output will be turned off. To turn the thermostat back on, press the On button.

Factory Reset

The thermostat has a factory reset function. This will reset all settings back to their factory default. To perform a factory reset, follow these steps:

- Turn the thermostat off (See above)
- Press and hold the Power and Up arrow key until the LCD powers up. All of the icons will be displayed. When they have disappeared, the thermostat has been reset

THE FOLLOWING SETTINGS ARE OPTIONAL AND IN MOST CASES NEED NOT BE ADJUSTED

Optional Features Explained

Feature 01 - Temperature Format: This function allows you to select between °C and °F.

Feature 02 – Switching Differential: This function allows you to increase the switching differential of the thermostat. The default is 1°C which means that with a set temperature of 20°C, the thermostat will switch the heating on at 19°C and off at 20°C. With a 2°C differential, the heating will switch on at 18°C and off at 20°C.

Feature 03 – Frost Protect: You can set whether the thermostat will maintain the frost temperature when the thermostat display is turned off. As a default, this is enabled.

Feature 04 – Frost Protect Temperature: This is the temperature maintained when the thermostat is in frost mode. The range is 07 - 17°C. The default is 12°C and is suitable for almost all applications.

Feature 05 – Output Delay: To prevent rapid switching, an output delay can be entered. This can be set from 00-15 minutes. The default is 00 which means there is no delay.

Feature 06 – Communication Address: This setting is used when you have connected your thermostat to a network system. Each thermostat on your network must have a unique communication address. This can be set from 01-32.

Feature 07 – Temperature Up/Down Limit: This function allows you to limit the use of the up and down temperature arrow keys. This limit is also applicable when the thermostat is locked and so allows you to give others limited control over the heating system.

Adjusting the Optional Settings

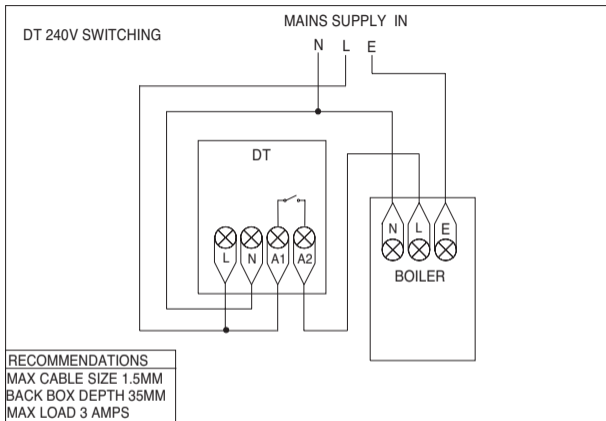
1. To access the configuration menu, turn off the thermostat by pressing and holding down the Power Button. Then, press and hold the Clock button until the display lights up.
2. The small number is the feature number, the large number is the setting value.
3. Use the clock button to cycle through the features.
4. Use the Up/Down keys to change the setting.
5. Press A to accept and store.

Feature Table

Feature	Description	Setting
01	Temperature Format	00=°C 01=°F
02	Switching Differential	01-03°C 00°C Default
03	Frost Mode	00 = Enabled 01 = Disabled (00 = Default)

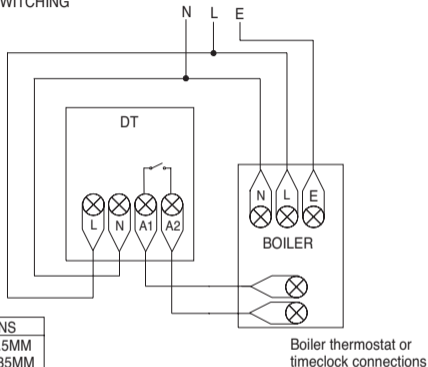
Feature Table (continued)

04	Frost Temperature	07-12°C (12°C Default)
05	Output Delay	00-15 Minutes (00 Default)
06	Communication ID	Set Unique Comms Address 01-32
07	Up/Down Temp Limit	00-10°C (00°C Default)



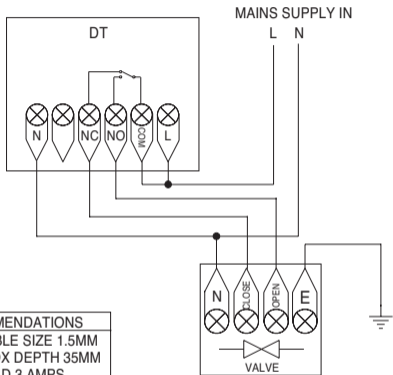
DT VOLTFREE SWITCHING

MAINS SUPPLY IN



RECOMMENDATIONS
MAX CABLE SIZE 1.5MM
BACK BOX DEPTH 35MM
MAX LOAD 3 AMPS

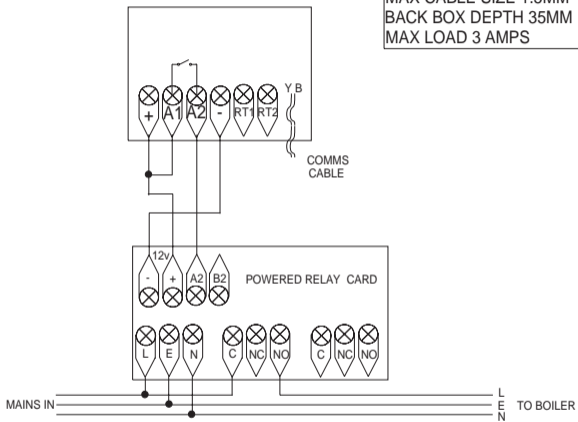
DT 240V CHANGEOVER SWITCHING



DT - N 240V SWITCHING

RECOMMENDATIONS

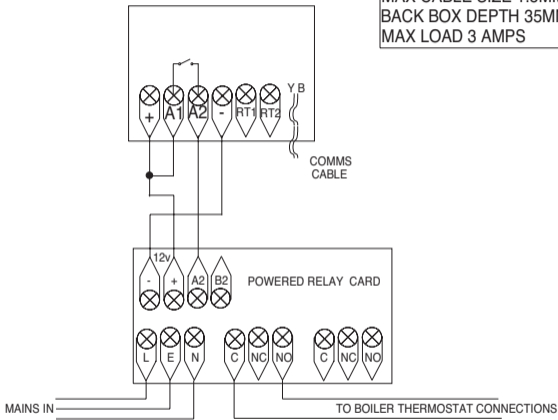
MAX CABLE SIZE 1.5MM
BACK BOX DEPTH 35MM
MAX LOAD 3 AMPS



DT - N VOLTFREE SWITCHING

RECOMMENDATIONS

MAX CABLE SIZE 1.5MM
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