

EUROSTER 2510

Introduction

Congratulations on the purchase of your new Digital Thermostat. Thanks to the latest microprocessor technology, the thermostat offers many convenient and energy-saving features. Please read the following instructions fully before installing your thermostat.

B: Overview of features & functions

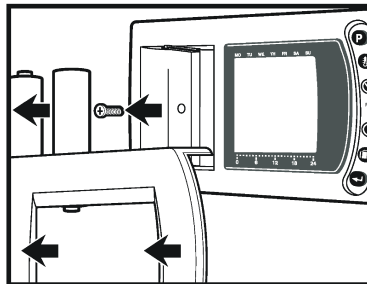
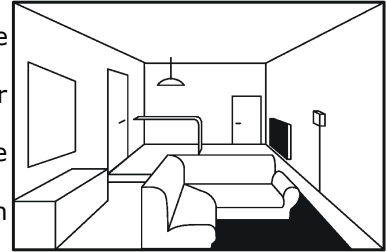
Your Digital Thermostat incorporates preset daily programs to suit different user lifestyles. The thermostat can be programmed easily to accommodate exacting user needs. This user guide shows how to get the best from your Digital Thermostat. It is powered by 2 x AA batteries and can replace most domestic thermostats.

Caution! The Digital Thermostat has been designed to switch a 230VAC supply. The maximum load is 6 Amps (resistive)/ 2 Amps (inductive).

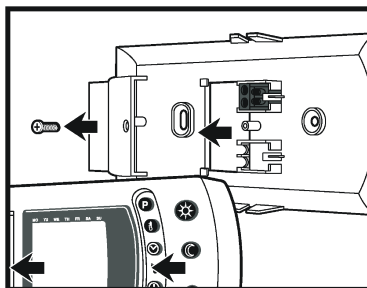
Installation

Caution! Electricity can be lethal. Before beginning any work, ensure that the electricity supply is turned off at the mains. If in any doubt, contact a qualified electrician. If you currently have a thermostat connected by two wires, you can replace it directly with your new Digital Thermostat. If you are not replacing an existing thermostat, you must install a two-wire cable to your heating system.

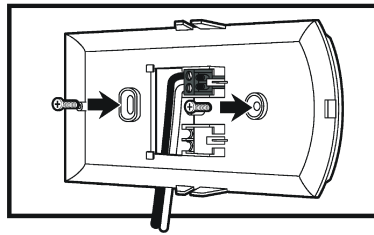
1. Before carrying out any installation work, choose an appropriate location for Digital Thermostat using the following guidelines:
 - a) Mount the Digital Thermostat approximately 1.6m above the floor.
 - b) Only mount on interior walls (the thermostat is not for outdoor use)
 - c) Avoid any location where the Digital Thermostat could be exposed to direct sunlight.
 - d) Avoid any location in proximity to a heater, cooker, ventilation outlet or any appliance/fitting that generates heat.
 - e) Avoid any location where there may be concealed boilers, pipework or chimney flues.
 - f) Mount away from doors and the corners of rooms.
2. Detach the front cover by sliding it to the left. Remove screw in battery compartment. Open the front housing from the base by lifting from the left hand side.



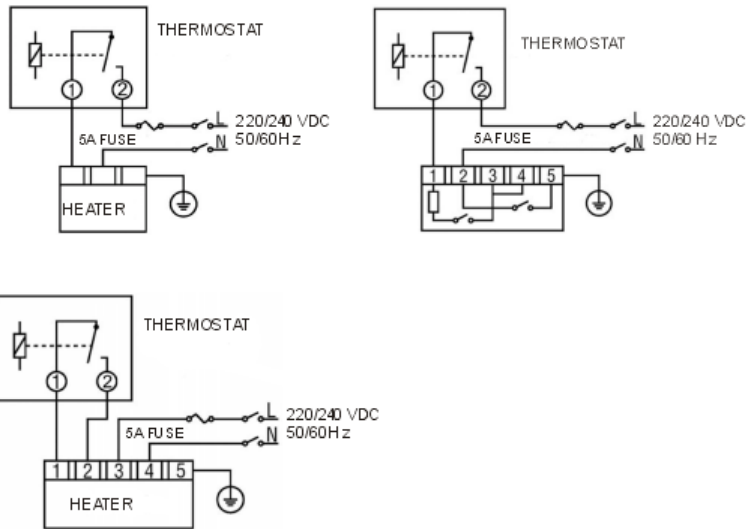
3. Unscrew the retaining screw to open the protective cover.



4. Mount the Thermostat base on the wall in the desired location, ensuring that the hole in the wall is completely covered by the base. Check the wires come in through the protective cover hole.



5. Connect the two wires into terminals 1 & 2. The standard connections are shown on the pictures (without neutral and earth conductor)

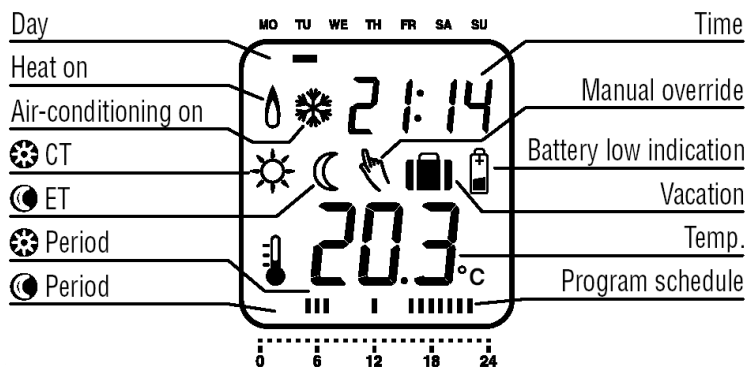


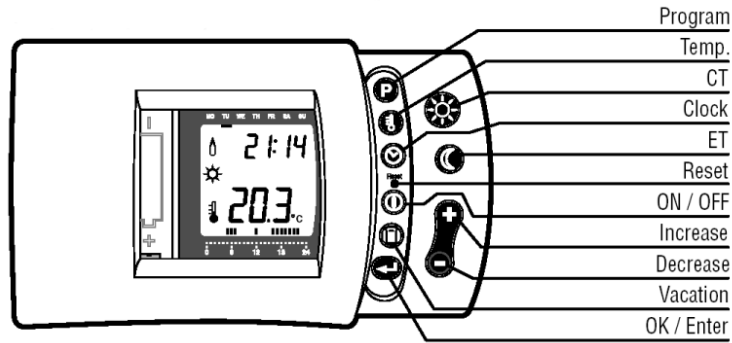
Note! If the existing installation has neutral or earth conductors, these must not be connected to the Digital Thermostat. They must be made electrically safe.

6. Reattach the protective cover to the Digital Thermostat's base and secure it with the retaining screw.
7. Reattach the front housing to the Digital Thermostat's base and secure it with the retaining screw.
8. Insert 2 x AA batteries making sure they are the right way round as indicated and replace the front cover.
- Note:** when replacing the batteries, the programs are held in memory for approx. 20 seconds only.
9. Press the RESET key once and ensure the Digital Thermostat is in the INITIAL mode

LCD display

Familiarise yourself with the LCD panel and the keys before programming.





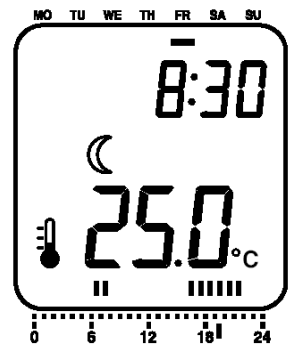
Key function:

- to enter programming mode
- to view the Temperatures i
- to enter TIME and DAY adjustment mode
- Reset - to reset the unit to INITIAL mode
- to turn the thermostat ON/OFF
- to enter Vacation mode.
- to confirm setting
- enter CT (COMFORT TEMPERATURE) mode
- enter ET (EVENING TEMPERATURE) mode.
- + - temporary TEMPERATURE OVERRIDE mode/ increase value adjustment
- - temporary TEMPERATURE OVERRIDE mode/decrease value adjustment

Operation and Programming

1. To set clock and day:

After inserting the batteries, or pressing the RESET key or key. The thermostat will enter TIME ADJUSTMENT mode and the HOUR will start to flash. Press the + or - keys to adjust the HOUR setting. Press key to confirm setting. The MINUTE will now flash, press + or - Key to adjust MINUTE. Press key to confirm setting. The DAY will now flash, press + or - key to adjust day. Press key to confirm setting. This will confirm the setting of clock and day. The display will return into running mode. E.g. if the clock at 8:30 FRIDAY and the room temperature is 25 C.



The Digital Thermostat is a weekly programmable thermostat, with 7 day/24 hour programs that can be set as required. For each hour you can set the Digital Thermostat so that either the CT (COMFORT) or ET (EVENING) temperature mode operates. The Digital Thermostat comes with a preinstalled program that will accommodate many users' requirements

Heating & Air-Conditioning Program

Day	CT period	ET period	Display Program Schedule
MO-FR	6:00-7:59 & 16:00-22:59	23:00-5:59 & 8:00-15:59	
SA-SU	7:00-22:59	23:00-6:59	

Reviewing preset program

To review the settings for the pre-installed program, press **P** to enter the PROGRAMMING mode. The preset program for Monday will show - 0:00 is displayed. Press +/- to show the temperature mode setting (either COMFORT or EVENING) for each hour.

For example, the Monday program has:

ET (EVENING temperature mode) 0.00 to 5.59 (Midnight to 5.59am) and 8.00 to 15:59 (8am to 3.59pm)
 CT (COMFORT temperature mode) 6.00 to 7.59 (6am to 7.59am) 16.00 to 22.59 (4pm to 10.59pm)
 Note: 23.00 to 0.00 (11pm to Midnight) is set to ET (EVENING temperature mode).

Press the **+** key and next day's temperature setting will be displayed. As before, use the + /- keys to show which temperature mode is operating for each hour. Repeat this procedure until Sunday has been reached. Press the **+** key to return to the RUNNING mode.

Changing the preset program

The preset program can be adjusted to meet your requirements. Press the **P** key to enter the PROGRAMMING mode. Press the **+** key to select the day you wish to adjust the program for. Use the + /- keys to select the hour you wish to adjust. Press **☼** or **☾** to change the temperature mode.

For example, to change 12pm to 4.59pm on Saturday from COMFORT to EVENING temperature mode:

Press the **P** to enter the PROGRAMMING MODE.

Press the **+** key repeatedly until Saturday is displayed.

Press the **+** key repeatedly until 12.00 with CT is displayed.

Press the **☾** key - CT will change to ET.

Press the **+** key so the display advances to 13:00 and press the **☾** so that CT changes to ET.

Press the **+** key so the display advances to 14:00 and press the **☾** so that CT changes to ET.

Press the **+** key to confirm the setting. The display will advance to Sunday - press the key again to return to the RUNNING mode.

Note: do not set a program using 0.00 as either a start or end time. Set programs to begin or end at 23:00 or 1:00. The thermostat may not operate correctly if 0:00 is used.

Viewing and changing the preset temperatures

Each temperature mode is set at the following values:

Mode	AIR-CONDITIONING	HEATING
☼	23°C	20°C
☾	28°C	17°C

Press the **⏸** key to view CT or ET temperature mode.

Press **☼** to view the CT setting or **☾** to view the ET setting (from the CT setting). With the temperature setting flashing, press +/- to change the temperature setting. Press the **+** key to confirm the setting and return to the RUNNING mode.

Setting the temporary manual override for temperature

Temporary manual override allows you to override the existing temperature setting for any period from 1 to 48hrs. Press the +/- key to enter the MANUAL OVERRIDE TEMPERATURE mode. The temperature reading on the LCD panel will flash.

Use +/- to set the desired temperature.


Press **+** to confirm the new temperature.

H1 will show on the LCD panel and flash (indicating a 1 hour override). Use the + key to increase this up to a maximum of 48 hours as required.

Press **+** the key to confirm.




Overriding the temperature mode (temporarily)

You can override the programmed CT (COMFORT) or ET (EVENING) temperature mode (i.e. CT instead of ET, or vice versa) until the temperature mode is programmed to activate again. If the thermostat is currently running in ET mode, press the **☼** key to change to CT mode the thermostat will run CT mode

until the next ET program period activates. Similarly if CT is running, press the  key to change to ET mode. The thermostat will continue to run in ET mode until the next CT program period activates.




Note: the first hour of override will only run for a maximum of 45 minutes. Each subsequent hour of override will function for the full hour. For example, 2 hours of override will function for 1 hour 45 minutes

Setting permanent/vacation temperature override

The Digital Thermostat program can be overridden to give one constant temperature for any period between 1 and 99 days. This is particularly useful if you are going on holiday. Press the  key and the day bar on LCD will flash. Use the +/- keys to set the number of days override required. Press the  key to confirm. Use the +/- keys to select the required temperature. Press the  key to confirm.

Note: If using the vacation mode for frost protection, some areas of the heating system may be in an exposed location outside the area monitored by the Digital Thermostat.

Cancelling overrides

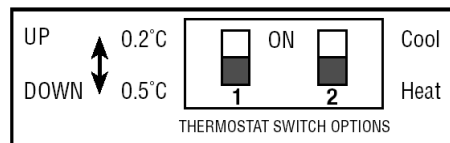
Should you wish to cancel either the manual, temporary or permanent/vacation override, press either the  or  key to return to the RUNNING mode. Alternatively, press  to turn the Thermostat off.

Resetting the Digital Thermostat

Should you wish to return the Thermostat to its original preset program (and erase any changes you have made) simply press the RESET key.

Further adjustment

The Digital Thermostat incorporates twin DIP switches on the circuit board at the rear of the front housing.



DIP switch 1 adjusts the sensitivity of the thermostat. In the DOWN position if the temperature variation is greater than 0.5°C the thermostat is activated. In the UP position it will activate if the variation is greater than 0.2°C.

DIP switch 2 switches between HEATING and AIR CONDITIONING. DOWN position selects HEATING control, UP position selects AIR CONDITIONING control.

Sensor operation

Your Digital Thermostat uses an advanced NTC thermistor to detect the temperature, located on the lower left-hand side of the circuit board. If the sensor is accidentally touched, you must allow a few minutes for the sensor to return to the normal temperature. The sensor measures the temperature once a minute.

Technical specifications

Temperature measuring range:	0 - 40°C
Temperature control range	5°C - 30°C
Batteries	2xAA (1.5VDC)
Temperature scale division	0,5°C
Differential:	0,4°C or 1°C
Rated switching power	250V, 6A resistive load, 2A inductive load
Minimum ON time:	In heating mode: 1 mins In air conditioning mode: 3 mins
Dimensions: length/width/height	130/78/30mm
Operating temperature (of environment)	0°C – 45°C
Ingress Protection	IP20