

# ATC SUNRAY PLUS QUICK START GUIDE

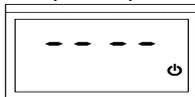
## 1. Control Buttons:

There are four control buttons on the sunray heater, **these buttons will change their function depending on what mode you are in.**

-  1 Change mode, confirm and move to the next section, or Access programme setting (hold for 5s)
-  2 Decrease Temperature/time or Select Economy mode when programming
-  3 Increase Temperature/time or Select Comfort mode when programming
-  4 Power on/off, Select Frost Protection mode when programming, or Access the Engineering menu (hold for 5s)

## 2. First time operation:

In order to turn the radiator on, press the Power button (4). The first time the radiator is turned on it will ask you to set the time and day. If this is not done immediately then you can set it after you have set your program. See step 6.



The Display will change from four dashes to show the current room temperature and one of five operation modes, this image shows program mode.



## 3. Setting the Temperature

The Comfort temperature is set while the heater is showing the current room temperature on the display with the '+' & '-' buttons (3&2). Press and hold either the '+' or the '-' button to begin setting the temperature, once the set temperature starts to increase or decrease on the screen you can release the button and start pressing '+' and '-' to set the desired temperature. Once you let go of the button for 2s the temperature setting is saved. Note: The Economy mode set temperature is factory set to be 3.5°C less than the comfort temperature → this can be change in the engineering menu, see step 9 part 1 -> Engineering Menu.

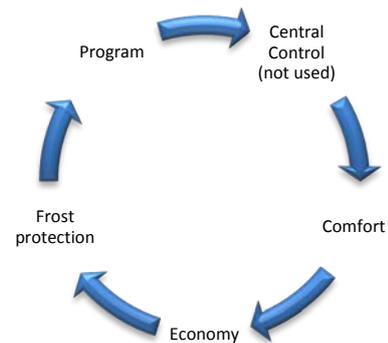
## 4. Keypad Lock

Hold '+' & '-' together for 5 seconds to lock or unlock the screen.

## 5. Changing Operating Modes:

The Sun Ray Plus heaters have 5 operating modes.

To change between the different modes press the Mode button (1), each press will advance through the modes in the following sequence:



### Comfort Mode:

Full time Comfort mode shows two full rows of bars across the bottom of the screen and a Sun on the upper right side of the display. As shown here.



### Economy Mode:

Full time Economy mode shows one full row of bars across the bottom of the screen and a moon on the upper right of the display. As shown here. Economy temperature is factory set at 3.5°C less than the Comfort setting.



### Frost protection Mode:

Full time frost protection mode is factory set at 7°C and is not adjustable, it is shown by a snowflake on the right of the display. As shown here.



### Program mode:

Program mode shows the numbers 1 to 7 on the left hand side of the screen with the user set programme for the current day at the bottom of the screen. The current day is indicated by the arrow pointing to the numbers on the left. The current time is indicated by the 2 flashing bars at the bottom of the screen. As shown here.

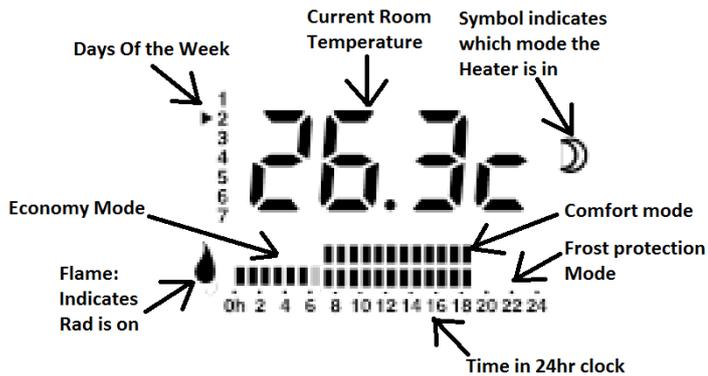


### Central Control mode:

**This mode is not used.** It shows a copyright symbol in the lower right corner. As shown here.



## 6. Programme Mode Detail



In the Program shown above the heater is set to run in economy mode between midnight and 7am, comfort mode between 7am and 7pm, and frost protection mode between 7pm and midnight.

## 7. Setting your own program

To begin programming the sunray heater press and hold the Mode button (1) until the display shows "PROG".



There will be a small arrow pointing to the numbers on the left hand side of the screen. These numbers are the days of the week, 1=Monday, 2=Tuesday etc. The arrow will point to 1 (Monday) when you begin programming.

The programme is set using the '+', '-' & Power buttons (3, 2 & 4). Two flashing bars shows the hour that is to be programmed.

To programme the radiator to run in Frost Protection mode for the hour indicated by the 2 flashing bars press the power button (4). The 2 flashing bars will move to the next hour.

To programme the radiator to run in Economy mode for the hour indicated by the 2 flashing bars press the '-' button (2).

To programme the radiator to run in Comfort mode for the hour indicated by the 2 flashing bars press the '+' button (3)

When you have finished programming a day you can copy the programme forward to the next day by holding in the Mode button until the arrow on the left side of the screen moves to the next number. To move to next day without copying the programme just press the Mode button once.

When You Have finished programming the last day of the week press the Mode button once to set or confirm the time. See step 7.

**IMPORTANT:** Once the programming and time setting has been completed you will need to set the heater to operate in the program mode as outlined in step 5 - Changing Operating Modes.

## 8. Step by Step Programme Example:

The program shown in step 5 (Programme Mode Detail) is set by following these steps: Press and hold the Mode button until you see 'Prog' on the screen. The arrow will be pointing to 1 indicating you are going to set the programme for Monday. Now press the '-' button 7 times to set economy mode for (00:00-07:00), then press the '+' button 12 times to set comfort mode for (07:00-19:00), finally press the power button 5 times to set frost protection mode for (19:00-24:00). Monday is now programmed. To copy this programme forward to Tuesday press and hold the Mode button until the arrow moves to point to the 2 on the left side of the screen. To move to Tuesday without copying the programme just press the Mode button once.

## 9. Setting the time.

*The time can only be set the first time you turn the radiator on or after you have completed the programming.*

When the programming has been completed for all 7 days the display will ask for the day and time to be set. This is indicated by the 7 numbers on the left of the screen flashing. Select the correct day with the '+' & '-' buttons. When you have the correct day, press the Mode button. The Hours will now flash, set the correct hour of the day with the '+' & '-' buttons and press the Mode button, the minutes will now flash. Set the minutes in the same way and press the Mode button to set the time and complete the programming.

**IMPORTANT:** Once the programming and time setting has been completed you will need to set the heater to operate in the program mode as outlined in step 4 - Changing Operating Modes.

**NOTE:** The day/time setting will only be stored in the heater for 30 minutes if the power supply is interrupted. The Programme will be stored indefinitely.

## 10. Engineering Menu

To access the engineering menu press and hold the power button for 5 seconds. The numbers on the left side indicate which part of the menu you are in. Press the power button once to move from one part to the next.

Part 1 sets how many °C the economy mode set temperature is below the Comfort mode set temperature.

Part 2 sets the temperature offset → the No. of °C above/below the observed room temperature the radiator uses as it's current temperature.

Part 3 is to be ignored.

Part 4 sets number of seconds the backlight stays lit for.

**Supplied by** ATC Electrical & Mechanical  
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