



## ThermoPlus AS2

### User Operating Instructions



### Programmable Room Thermostat

The ThermoPlus AS2 is a battery powered Programmable Room Thermostat that has been designed to make its operation very simple for the householder. The built in automatic clock means it will not need setting or adjusting for BST and GMT time changes.

The ThermoPlus will provide a pre-programmed temperature profile preset by your installer and day-to-day user adjustments are carried out using just three buttons.

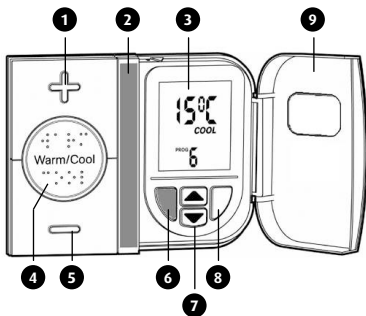
Being battery powered, the ThermoPlus AS2 is particularly suitable for use as a replacement for older style room thermostats, without the need to disturb existing wiring.

## The ThermoPlus AS2

The instructions contained in this user guide are designed to help with the programming and operation of the unit.

**Part 1** of these instructions explains the day to day operation of the AS2 (page 3)

**Part 2** of these instructions describes programming the AS2 (page 7)



- 1 Plus '+' Button
- 2 LED Indicator lights
- 3 Installer Display
- 4 'Warm/Cool' Button
- 5 Minus '-' Button

- 6 Standby Time/Set Button
- 7 Increase/Decrease Buttons
- 8 Prog/Exit Button
- 9 Front flap shown open

## Part 1 - Day to Day operation

The ThermoPlus AS2 has been designed to be a simple to use thermostat, requiring minimal user intervention with a pre-programmed heating profile. Simple temperature adjustments can be easily carried out by using the '+' and '-' buttons. The indicator lights react to any temporary user adjustments, with the LED indicators working in the following way;

'Warm' is shown by two red lights and 'Cool' is shown by a single blue light. The centre button marked 'Warm / Cool' allows you to toggle between the warm and cool settings. When one or more red lights are on, you can increase the temperature by pressing the '+' button. For example, press once to go up by 1°C or press twice to go up by 2°C.

When the two or three red lights are on, the temperature can also be lowered by using the '-' button. For example, press once to go down to the warm setting temperature and press again to go down to 1°C below warm setting temperature. (Maximum adjustment to warm temperature +/- 2°C). The blue light indicates the unit is working to the lower set temperature. Please note that the '+' or '-' buttons will have no effect on the lower temperature setting.

Under the flap is a blue button (6). During the summer, or when you want your central heating off for long periods, for example if you go on holiday, press the blue button and close the flap. When you want to go back to normal operation, open the flap and press the blue button again, remembering to close the flap once finished.

Both the Warm and Cool temperature settings can be permanently adjusted, this operation is detailed on page 5.

## **Power Down Mode**

During normal operation the AS2 will go into Power Down Mode, this is to maximise the life of the 3 x AA batteries fitted. Normal operation will continue during this mode, and the heating will be unaffected. The result of the Power Down Mode will mean that the LED indicators will not be displayed and LCD will not be illuminated, although the 'Warm' or 'Cool' temperature will be displayed.

To 'wake up' the AS2 press the 'Warm / Cool' button for 5 seconds, this will then illuminate both the LED and LCD displays for a period. Any adjustment can then be made, the Power Down Mode will commence again approximately 8 seconds after the last button press.

## Warm and Cool Temperature Adjustment

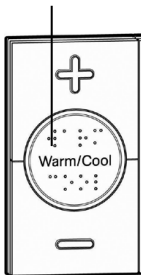
The Warm and Cool target temperature settings on the ThermoPlus AS2 are fully adjustable. To change a target temperature it is first necessary to press the centre button to bring up the 'Warm' or 'Cool' setting (indicated by the red or blue LED indicators).

By using the up / down keys under the flap the Warm / Cool temperature can be increased or decreased to the desired temperature setting. See page 6.

**PLEASE NOTE** – it is not possible to set the warm setting to below that of the cool setting or vice versa.

Once a new temperature has been set in either the Warm or Cool setting the AS2 will continue to use this setting until the next manual adjustment.

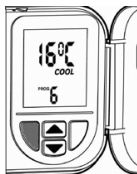
**Press here to select Warm or Cool**



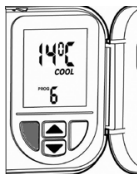
## Warm and Cool Temperature Adjustment



To increase  
Press



To decrease  
Press



## Audible Feedback

All buttons on the AS2 give an audible confirmation when pressed. A short bleep means 'Yes', a longer buzz means 'No' - the setting / adjustment cannot be done.

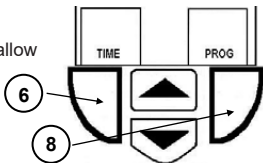
## Frost Protection

The blue button situated under the flap will initiate the frost protection mode, when pressed the word 'STANDBY' will appear on the display, the thermostat has been pre-programmed with a frost protection temperature level of 7°C, this can be adjusted by using the up and down arrow buttons. Minimum setting 5°C. It is not possible to set a frost protection temperature above the cool setting.

## Part 2 - Programming Mode

The ThermoPlus AS2 has been designed for minimal user intervention, however should any changes to the existing programme be required please press button 6 and 8 simultaneously to enter the programming mode, this will allow you to;

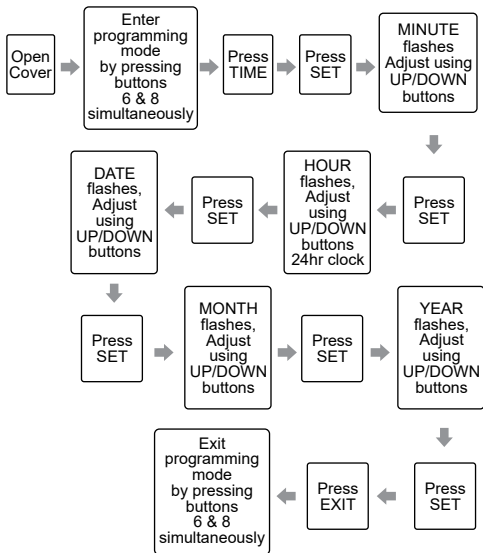
- Check the current time / date / year
- Check the current profile
- Set a new pre-set profile
- Set a user defined profile



**Please note:** Upon completion of any of the adjustments above, please ensure that you exit the programming mode by pressing buttons 6 and 8 simultaneously.

## Time and Date Check

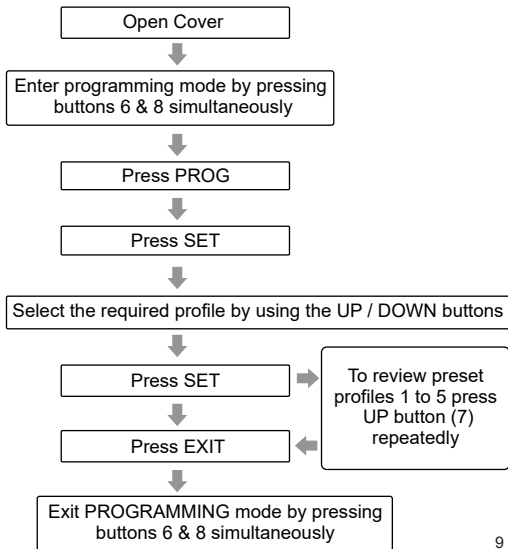
The Thermoplus AS2 thermostat has a built in automatic clock adjusting for BST & GMT time changes and has been preset with the current time and date during manufacture. No alteration should be required to the time and date, however if any modification is required please refer to the flowchart below.





## Setting Heating Profiles

The ThermoPlus AS2 contains a selection of five preset and one user definable profile options, one of these will have been set by the Installer. Care should be taken to ensure a profile is selected that suits your lifestyle the best. Profiles one to five are detailed on pages 10 to 12. If none of the preset profiles meet your requirements it is possible to set a user defined profile, full details are given on pages 13 to 14.

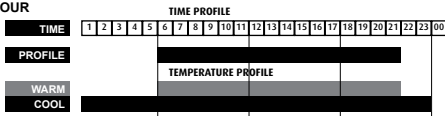


# Heating Profiles

The ThermoPlus AS2 has six heating profiles, five are fixed and one is adjustable. Profile 'ONE' has been set as the default and is detailed below.' During installation a heating profile should have been set to best match your requirements; illustrations of the present below shown are profiles.

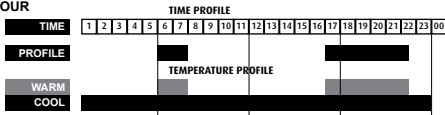
## PROFILE 1 24 HOUR

ONE - DEFAULT	START	STATUS
EVERY DAY	06:00 WARM	
	22:00 COOL	



## PROFILE 2 24 HOUR

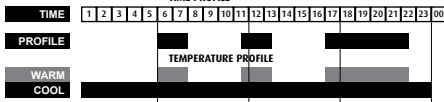
PROFILE TWO	START	STATUS
EVERY DAY	06:00 WARM	
	08:00 COOL	
	17:00 WARM	
	22:30 COOL	



# **PROFILE 3** 24 HOUR

PROFILE THREE	START	STATUS
EVERY DAY	06:00	WARM
	08:00	COOL
	11:30	WARM
	13:30	COOL
	17:00	WARM
	22:30	COOL

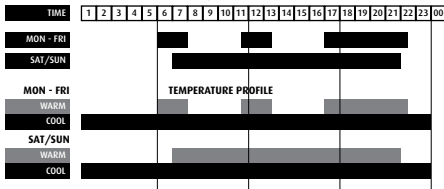
TIME PROFILE



# **PROFILE 4** 5/2 DAY

	START	STATUS		START	STATUS
MON - FRI	06:00	WARM	SAT/SUN	07:00	WARM
	08:00	COOL		22:00	COOL
	11:30	WARM			
	13:30	COOL			
	17:00	WARM			
	22:30	COOL			

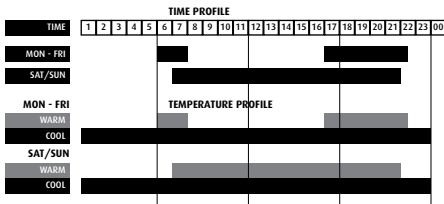
TIME PROFILE



# PROFILE 5

5/2 DAY

PROFILE FIVE	START	STATUS	START	STATUS
MON - FRI	06:00	WARM	SAT/SUN	07:00 WARM
	08:00	COOL	22:00	COOL
	17:00	WARM		
	22:30	COOL		



Profiles one to five have fixed periods, no alteration to the Warm / Cool times can be made, if it is necessary to make any alterations then profile six must be used. Profile six will allow you to set up a profile to your exact requirements. Please refer to the flowchart on page 14.

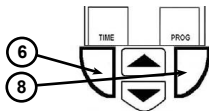
## 6 User Definable - 7 Day Programming

Profile 6 will allow you to set up a profile to your exact requirements. By using the flow chart on page 14, you can adjust the Warm / Cool timing periods as required. If only one or two Warm / Cool periods are required on any day set the times accordingly and set the remaining Warm and Cool start times to be exactly the same as each other.

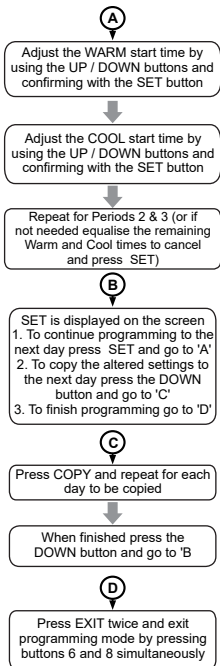
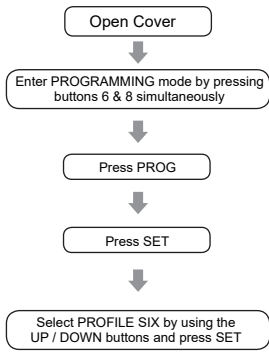
This will cancel the 2nd or 3rd Warm / Cool periods altogether for the day concerned. Unused periods will be shown by a series of dashes on the settings screen. Press SET and the next day and SET appears in the display. Press SET to adjust the next days settings or EXIT to return to the main menu. To do this press SET until the next day and SET appears in the display. Unused periods will be shown by a series of dashes on the setting screen.

If one or two periods have been set and you wish to return to three periods in 24 hours then pressing the up arrow when the dashes appear after the last Cool setting will bring back the hidden Warm / Cool settings.

PROFILE SIX	START	STATUS
DEFAULT	06:00	WARM
EVERYDAY	08:00	COOL
	11:30	WARM
	13:30	COOL
	17:00	WARM
	22:30	COOL



## START FLOW CHART



## **GENERAL INFORMATION**

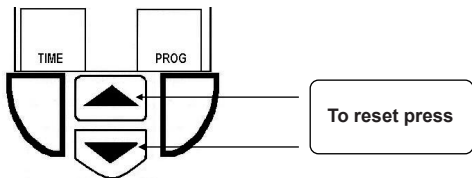
### **Resetting the AS2 Transmitter**

Electronic equipment can in some circumstances be affected by electrical interference. If the display becomes frozen or scrambled; or if you wish to revert back to the default settings please use the following procedure.

**PLEASE NOTE:** Do not attempt to reset without batteries being fitted. Using this procedure will restore the ThermoPlus AS2 to the original factory programme settings, the time setting will also default to midnight (00:00) on 1 January 2006.

## Resetting the ThermoPlus AS2

- On the ThermoPlus AS2 press the 'UP' and 'DOWN' arrow buttons together:
- Then release the buttons and the thermostat will return to preset factory settings.
- Reset the time and date as shown on page 8.





## Battery Replacement

The ThermoPlus AS2 uses 3 x AA (LR6) batteries. The batteries supplied with the unit should last for approximately two years. When the batteries are nearing the end of their life a 'LOW BAT' message will flash on the display.

To change the batteries it is necessary to remove the AS2 from the wall, to achieve this first press the RELEASE BUTTONS located under the unit and pull the AS2 away from the mounting plate by gently pulling up.

Before removing the old batteries please wait for at least 15 seconds after the last button was pressed. Remove old batteries and ensure the LCD display has gone blank before fitting the new batteries.

Replace with three new AA size alkaline batteries, ensure they are fitted correctly as shown by the marking positioned between the battery terminals. Once batteries have been fitted, replace the AS2 to the mounting plate, ensuring that the two guide lugs are fitted into the corresponding slots in the top of the mounting plate. Now push the AS2 until the release button clicks into place.

**WARNING:** You must ensure that the AS2 is always running on 3 x AA batteries and when the battery low message is displayed it is important that they are changed as soon as possible. This is to preserve the secondary internal reserve battery which is non-replaceable.

**For best results use alkaline batteries rather than zinc carbon batteries.**



Secure Meters (UK) Ltd  
Secure House, Lulworth Close,  
Chandler's Ford,  
Eastleigh, SO53 3TL, UK  
t: +44 1962 840048 f: +44 1962 841046  
[www.securemeters.com](http://www.securemeters.com)



NP0082344000



Part Number 82344 Issue 7