



## ThermoPlus AS1 User Operating Instructions



The ThermoPlus AS1 - Programmable Room Thermostat Offers a number of pre-installed heating profiles which are simple to set-up by the installer or user to provide maximum comfort. Once complete, user operations are kept to a minimum by using the +/ - and Warm/Cool buttons on the front of the unit.

PLEASE NOTE: The ThermoPlus contains a selection of five pre-set and one adjustable profile options, one of these profiles should have been set by the Installer to meet your heating requirements. Care should be taken to ensure the correct profile is selected that most suits your lifestyle. Details on how to change the selected profile are located on page 9 of this guide.

## **What is a programmable room thermostat?**

...an explanation for householders.

A programmable room thermostat is both a programmer and a room thermostat. A programmer allows you to set 'ON and OFF' time periods to suit your own lifestyle. A room thermostat works by sensing the air temperature, switching on the heating when the air temperature falls below the thermostat setting and switching it off once the set temperature has been reached.

So, a programmable room thermostat lets you choose what times you want the heating to be on, and what temperature it should reach while it is on. It will allow you to select different temperatures in your home at different times of the day (and days of the week) to meet your particular needs.

Turning a programmable 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 programmable room thermostat to a lower setting will result in the room being controlled at a lower temperature, and saves energy.

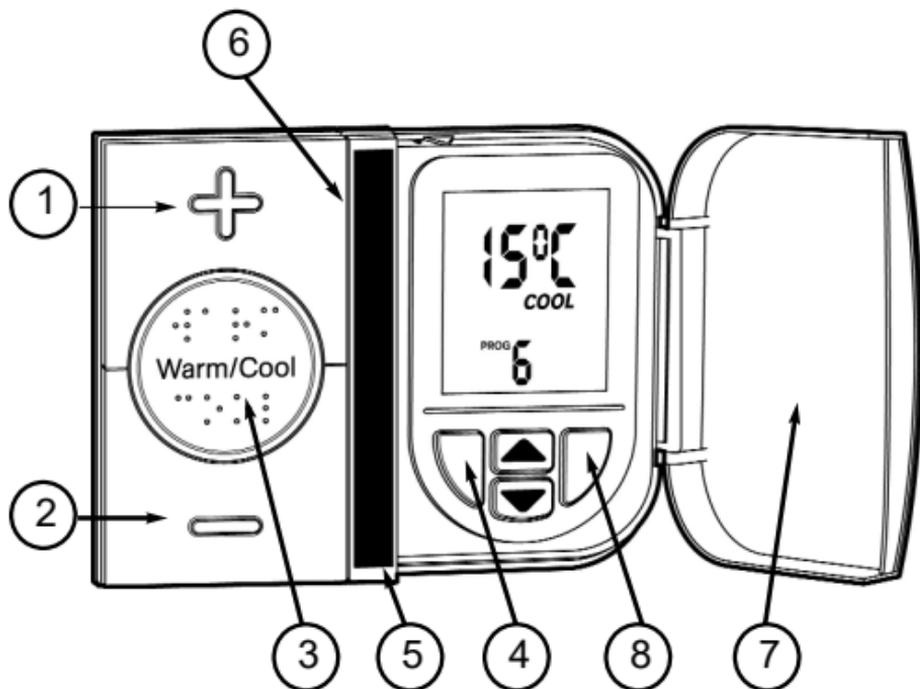
The way to set and use your programmable room thermostat is to find the lowest temperature settings that you are comfortable with at the different times you have chosen, and then leave it alone to do its job. The best way to do this is to set low temperatures first, say 18°C and then turn them up by one degree each day until you are comfortable with the temperatures. You won't have to adjust the thermostat further. Any adjustments above these settings will waste energy and cost you more money.

*contd...*

## **What is a programmable room thermostat?**

If your heating system is a boiler with radiators, there will usually be only one programmable 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 that even the coldest room is comfortable, then prevent any overheating in other rooms by adjusting the TRVs. The time on the programmer must be correct. Some types have to be adjusted in spring and autumn at the changes between Greenwich Mean Time and British Summer Time. You may be able to temporarily adjust the heating programme, for example, 'Override', 'Advance' or 'Boost'. These are explained in the manufacturer's instructions.

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

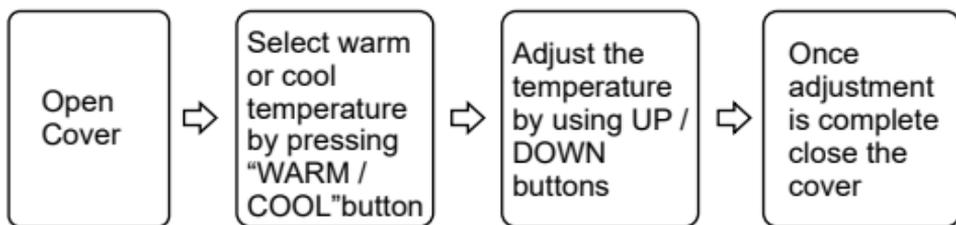


## Warm and Cool Temperature Adjustments

The ThermoPlus has two preset temperature levels, these are known as 'Warm', higher level temperature (21 °C) and 'Cool', lower or set back temperature (15 °C). The preset temperatures have been selected to give a comfortable, safe, yet efficient temperature level in the home.

In certain installations it may be necessary to adjust either the 'Warm' and / or 'Cool' temperatures to meet the specific needs of the user. This can be achieved by following the simple steps below; (Additional information is also contained within the General Information section of this guide)

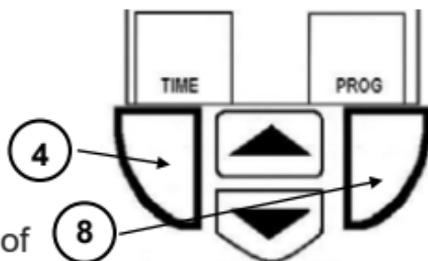
## Warm and Cool Temperature Adjustments



## Thermoplus Programming Mode

The ThermoPlus AS1 has been designed for minimal user intervention, however should any changes be required please press buttons 4 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 or
- Set a user defined profile

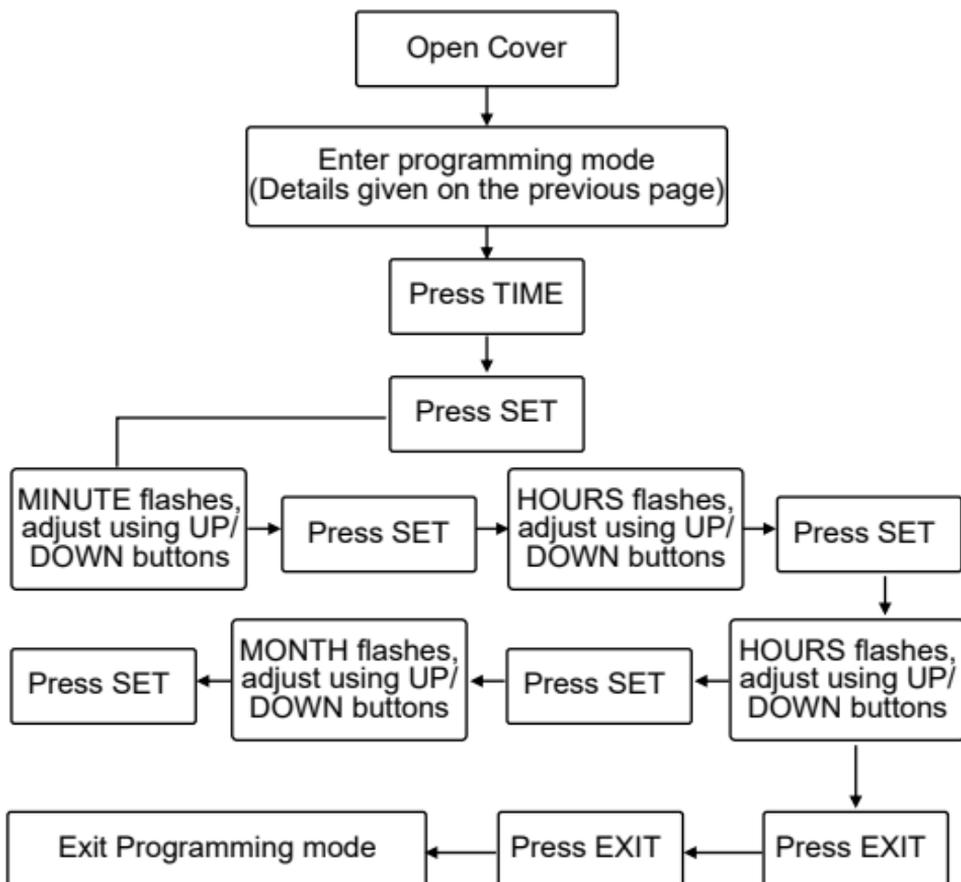


PLEASE NOTE; Upon completion of the instructions above, please ensure that you exit the programming mode by pressing button 4 and 8 simultaneously.

## Time and Date Check

The ThermoPlus thermostat has been pre-set 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.

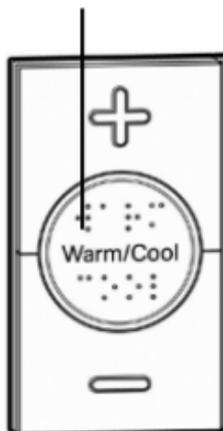
## Time and Date Check



## Warm and Cool Temperature Adjustment

The Warm and Cool target temperature settings on the ThermoPlus AS1 are fully adjustable. To change a target temperature it is first necessary to press the 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

Press here to select Warm or Cool



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 on either the Warm or Cool setting the AS1 will continue to use this setting until the next manual adjustment.

PLEASE NOTE - The AS1 will display any temporary change the user has made by pressing the + or - buttons, this does not indicate a permanent change in either the Warm or Cool settings, the temperature will return to the pre-set levels at the next switching period. During an override the 'Warm' or 'Cool' setting will not be displayed on the LCD.

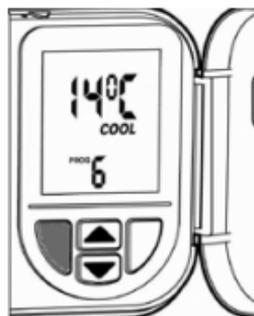
## Warm and Cool Temperature Adjustment



To increase  
Press

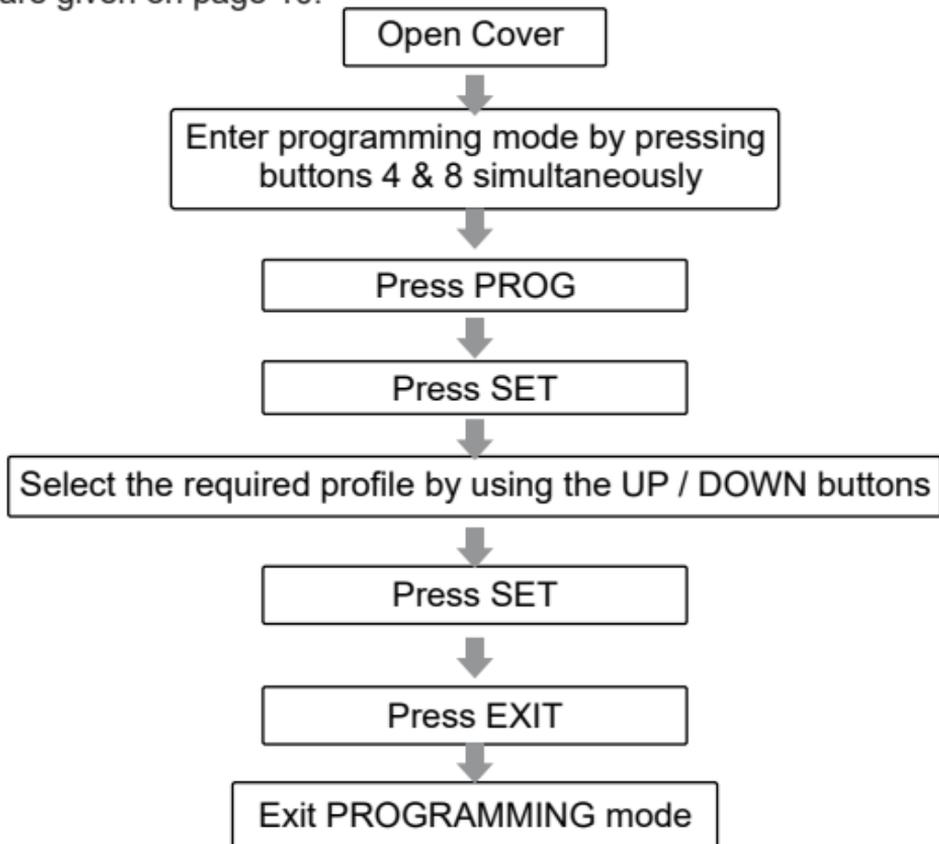


To decrease  
Press



## Setting Heating Profiles

The ThermoPlus AS1 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 8 and 9. If none of the preset profiles meet your requirements it is possible to set a user defined profile, full details are given on page 10.



Profiles one to five have fixed programmes, they can be reviewed by pressing the set button once the selection process detailed above has been completed. To set a custom profile please refer to the instructions on page 12.

# Heating Profiles

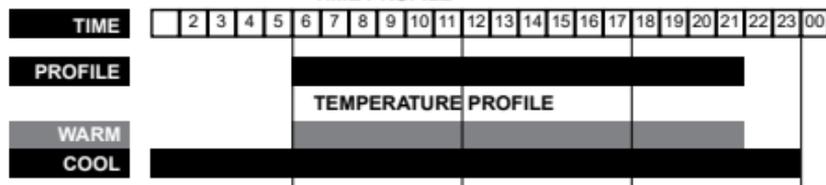
The ThermoPlus has six heating profiles, five are fixed and one is adjustable. 'ONE' has been set as the default and is detailed below. During installation a heating profile should have been set to best match your requirements; illustrations of the preset below shown are profiles.

## PROFILE 1 24 HOUR

### Profiles One To Three 24 Hour - Same Profile Each Day

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

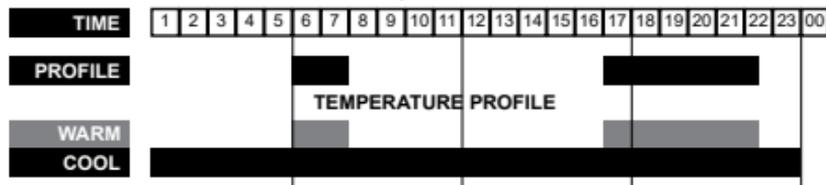
#### TIME PROFILE



## PROFILE 2 24 HOUR

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

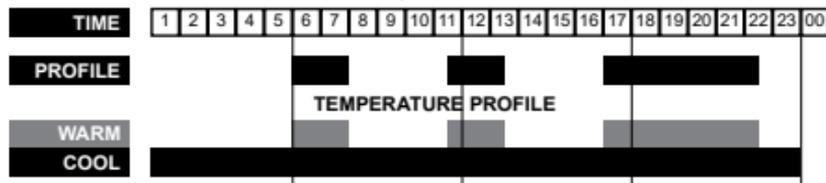
#### TIME PROFILE



## 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



## Profiles Four and Five

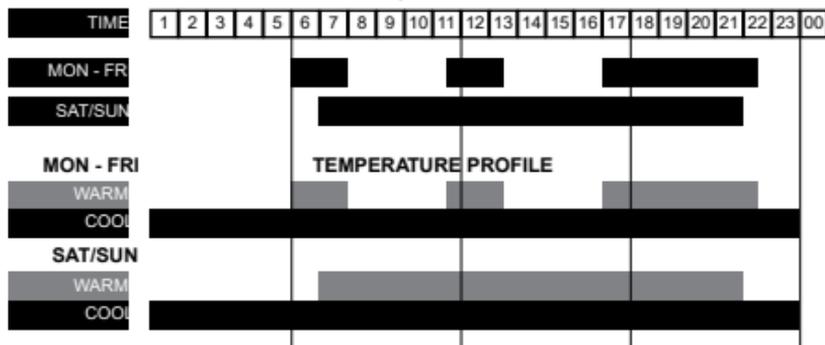
### 5 Day/ 2 Day - Different Weekday / Weekend Profile

# 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

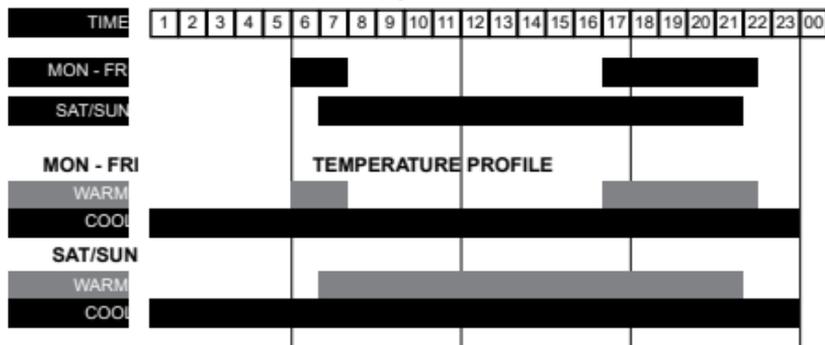


# PROFILE 5

5/2 DAY

|           | 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   |                    |

#### TIME PROFILE

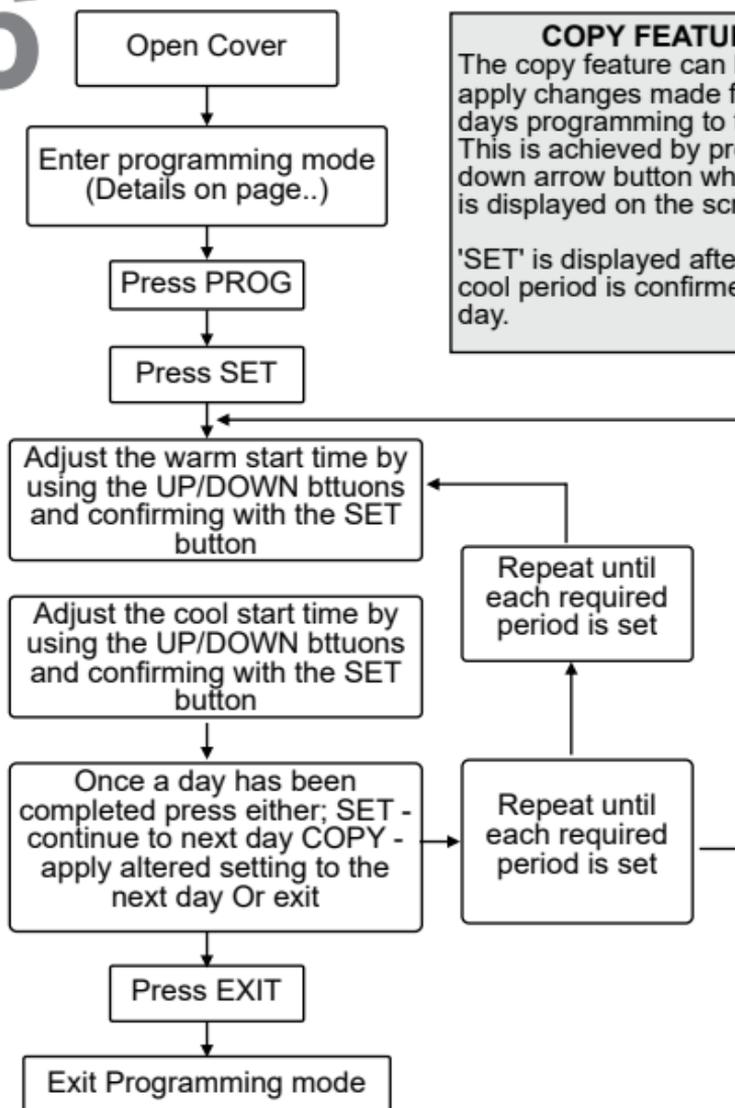


Profiles one to five have fixed periods, no alteration to the Warm / Cool times can be made, if it is necessary to make any alterations then profile six must be used. Profile six will allow you to set up a profile to your exact requirements. Please refer to the flowchart on page 10.

# Profile Six

## User Definable - 7 Day Programming

PROFILE **6**



### COPY FEATURE

The copy feature can be used to apply changes made from one days programming to the next. This is achieved by pressing the down arrow button when 'SET' is displayed on the screen.

'SET' is displayed after the last cool period is confirmed on each day.

## Resetting the ThermoPlus AS1

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.

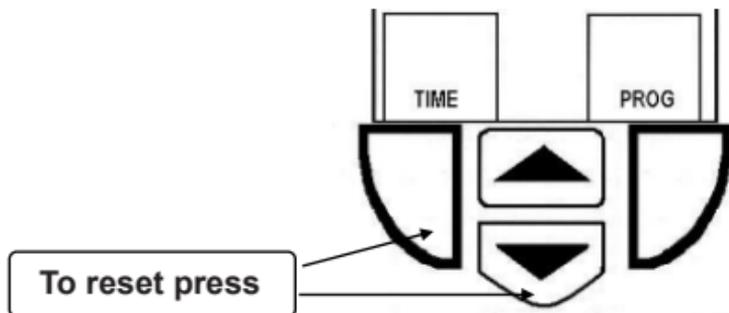
### Reset Procedure

PLEASE NOTE; Using this procedure will restore the ThermoPlus to the original factory programme settings, the time setting will also default to 1st January 2005.

### RESETTING THE THERMOPLUS AS1

On the ThermoPlus AS1 press the 'UP' and 'DOWN' arrow buttons together:

Then release the buttons and the thermostat will return to preset factory settings.



## **General Information**

### **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.

### **Battery**

The programmer is fitted with a non-rechargeable, long life battery, which will maintain the programmed time settings for a minimum of 12 months with the supply disconnected. THIS SHOULD BE SUFFICIENT TO COVER POWER INTERRUPTIONS DURING THE LIFE OF THE UNIT. During power interruptions the LCD display and LED indicators will not function.

### **Service and Repair**

The ThermoPlus AS1 is NOT user serviceable. Please do not dismantle the unit. In the unlikely event of a fault developing please refer to the **RESETTING THE THERMOSTAT** section of this user guide located on page 9. If this fails to resolve the problem please contact a local heating engineer or a qualified electrician.

## Specification ThermoPlus AS1

|  |  |
|--|--|
| Contact type:<br>(Voltage Free)            | Micro dis-connection   |
| Contact rating:                            | 3(1)Amps 230-240V  |
| AC Power supply:                           | 230-240V AC 50Hz   |
| Operating temperature range                | 0 °C to 40 °C  |
| Temperature control range                  | 5 °C to 30 °C  |
| Standby temperature                        | 5 °C to 30 °C  |
| Double insulated.                          |  |
| Dirt protection                            | Normal situations  |
| Enclosure protection                       | IP30   |
| Purpose of control                         | Electronic thermostat  |
| Reserve Battery Type                       | Lithium  |
| Case material                              | Thermoplastic, flame retardant                                 |
| Dimensions                                 | 120mm x 90mm x 32mm  |
| Display                                    |  |
| <i>User</i>                                | LED  |
| <i>Programming</i>                         | Liquid crystal, Backlit  |
| Clock                                      | 24 hour  |
| Display time adjustment:                   | 1 Minute steps   |
| Switched time adjustment:                  | 15 Minute steps  |
| Programme selection                        | Auto,  |
| Standby operating periods per day (Warm) 3 |  |
| Override                                   | Instant Warm/Cool  |
| Backplate                                  | Industry Standard Backplate                                    |
| Standard(s)                                | BS EN 60730-1, BS EN<br>60730-2-9, EN 60730-1, EN<br>60730-2-9 |

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