

## SunPro1000 ONE-CHANNEL PROGRAMMER (with programmable room temperature and frost protection options)

### USER INSTRUCTIONS

#### What is a programmer?

A programmer allows you to set ON OFF time periods. Some models switch the domestic hot water on and off at the same time, while others allow the domestic hot water and heating to come on and go off at different times. Set the 'On' and 'Off' time periods to suit your own lifestyle. On some programmers you must also set whether you want the heating and hot water to run continuously, run under the chosen 'On' and 'Off' heating periods, or be permanently off.

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.

The heating will not work if the room thermostat has switched the heating off. And, if you have a hot-water cylinder, the water heating will not work if the cylinder thermostat detects that the hot water has reached the correct temperature.

### INTRODUCTION

The SunPro1000 one-channel programmer enables volt free switching of one heating zone. It is ideal for use with combination boilers, where an additional heating zone is required or when additional hot water cylinder control is required. The user has a choice of 3, 2 or 1 ON/OFF times per day.

During installation, the installer selects 24 Hr, 5 day / 2 day or 7 day programming by means of a 3-way switch on the rear of the unit. The installer also has the option of selecting either Pump or Gravity feed, depending on the configuration of the central heating system. All recently installed systems are Pump fed. (See installation instructions).

The SunPro1000 one-channel programmer has a programmable room thermostat option and a frost protection option. If any or both of these options are selected then the programmer must be mounted in a suitable position. These options must be selected during installation.

The ideal position is about 1.5m above floor level, accessible, reasonably lit and free from extremes of temperature and draughts. Do not mount on an outside wall, above a radiator or where it may be subjected to direct sunlight.

### WARNING

**N.B. All installations should be carried out by a competent person and in line with current wiring regulations.**

#### 1) Resetting the programmer

It is necessary to press the "RESET button" (see below), prior to the initial programming. The "RESET" button should be pressed with a blunt non-metallic instrument.



#### 2) Setting the Date and Time

a) The selector switch should be moved to the "TIME SET" position

b) Press the "+" or "-" buttons to select the year. Press "OK" when the correct year has been selected.

c) Press the "+" or "-" buttons to select the month. Press "OK" when the correct month has been selected.

d) Press the "+" or "-" buttons to select the day. Press "OK" when the correct day has been selected.

e) Press the "+" or "-" buttons to select the hour. Press "OK" when the correct hour has been selected. A 24-hour clock is used.

f) Press the "+" or "-" buttons to select the minute. Press "OK" when the correct minute has been selected.

g) After the correct minute has been selected the user will then be prompted to change the year again. If necessary, steps 2b to 2f can be repeated

h) If the date and time have been correctly set, move the selector switch to "RUN" to run the programme or to "PROG SET" to change the program settings.

#### 3) Programme Settings – factory defaults

##### All 7 Days

	P1 ON	P1 OFF	P2 ON	P2 OFF	P3 ON	P3 OFF
Mon ~ Sun	6:30	8:30	12:00	14:00	16:30	22:30

## 5 / 2 Days

	P1 ON	P1 OFF	P2 ON	P2 OFF	P3 ON	P3 OFF
Mon ~ Fri	6:30	8:30	12:00	14:00	16:30	22:30
Sat ~ Sun	7:30	10:00	12:00	14:00	17:00	23:00

## 24 Hour



P1 ON	P1 OFF	P2 ON	P2 OFF	P3 ON	P3 OFF
6:30	8:30	12:00	14:00	16:30	22:30

### 4) On/OFF period selection

There are 5 options available for the user to choose how many ON/OFF times they require.

- ON 3 2 1 OFF – The programmer is permanently on.
- ON 3 2 1 OFF – The programmer uses 3 ON/OFF periods per day.
- ON 3 2 1 OFF – The programmer uses 2-ON/OFF periods per day. This operates the first ON/OFF time and the third ON/OFF time, ignoring the second ON/OFF time.
- ON 3 2 1 OFF – The programmer uses 1-ON/OFF per day. This operates from the first ON time to the third OFF time.
- ON 3 2 1 OFF – The programmer is permanently OFF.


### To change the ON/OFF selection

- Move the selection switch to “RUN” 
- Pressing the  button enables the user to change between ON, 3, 2, 1 or OFF for the channel.

### 5) Changing the programme times

- Move the selection switch to “PROG SET”



- Press the  button to start programme setting.
- The LCD will flash, enabling the user to programme the channel ON/OFF times.
- Press the “+” or “-” buttons to adjust the “P1” ON time. When the correct time is displayed, press the “OK” button.
- Press the “+” or “-” buttons to adjust the “P1” OFF time. When the correct time is displayed, press the “OK” button.

- Repeat this process for the P2 and P3 ON/OFF times.

- Move the selection switch to “RUN”




- The programme adjustment is now finished.

### 6) Reviewing programme times

- Move the selection switch to “PROG SET”




- Press the  button to review the times.
- Press the “OK” button to review the ON/OFF times for P1 to P3.

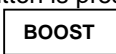
### 7) Holiday Mode

- Move the selection switch to the “RUN” position.




- Press the  button to activate the HOLIDAY MODE.
- The LCD will flash, prompting the user to enter the number of “holiday days”
- The number of “holiday days” can now be entered by pressing “+” or “-” buttons.
- A maximum of 60 “holiday days” can be entered.
- Pressing the “OK” button switches the programmer “OFF” for the selected number of “holiday days”.
- Pressing the “OK” button again will cancel the HOLIDAY MODE and the programmer will return to the programme originally programmed.


### 8) BOOST Function

- The BOOST function enables the channel, if switched ON, to be extended by 1, 2 or 3 hours, depending on the number of times the “BOOST” button is pressed.
- The BOOST function enables the channel, if switched OFF, to be switched ON for 1, 2 or 3 hours, depending on the number of times the “BOOST” button is pressed.
- Press the  button to “BOOST” the channel.



## 9) ADVANCE Function

- The ADVANCE function enables the user to reverse the status of the channel.
- If the programme calls for the channel to be ON, pressing the "ADVANCE" button will switch the channel OFF. Pressing the "ADVANCE" button again will switch the channel ON again.
- If the programme calls for the channel to be OFF, pressing the "ADVANCE" button will switch the channel ON. Pressing the "ADVANCE" button again will switch the channel OFF again.
- Press the  button to ADVANCE channel.

## 10) Back Light Mode Selection



- This mode enables the back light to be permanently on or on for 10 seconds, after any button has been pressed.
- Move the selection switch is in the "RUN" position. 
- Press the "OK" button for 5 seconds. After 5 seconds the current setting will be displayed on the LCD
- Press the "+" or "-" buttons to switch between "ON" or "AUTO".
- When the desired setting is displayed press the "OK" button to leave this mode and return the programmer to normal operation.
- Note: In order to save battery power the back light is only active when the unit is connected to mains power.

## 11) Setting the Frost Protection set point (if option activated during installation)

- Move the selection switch to the "RUN" position 
- Press the  button to select the manual OFF position (i.e. "ON 3 2 1 OFF").
- Hold down both the "+" and "-" buttons at the same time for 5 seconds to enter the selection mode.
- Press either the "+" and "-" buttons to set the Frost Protection set point (between 5~20°C).
- Press the "OK" button to activate.
- Note: In order to save battery power the frost protection function is only active when the unit is connected to mains power. The function can still be set-up under battery power.

## 12) Setting the room temperature

(if option activated during installation)

- Move the selection switch to the "RUN" position 
- Press the  button to select any of ON, 3, 2 or 1 position (i.e. "ON 3 2 1 OFF").
- Hold down both the "+" and "-" buttons at the same time for 5 seconds to enter the selection mode.
- Press either the "+" and "-" buttons to set the room temperature set point (between 5~35°C).
- Press the "OK" button to activate the selected set point.
- N.B.** In order to save battery power the room temperature function is only active when the unit is connected to mains power, the function can still be set-up under battery power.

## 13) Changing the battery

- As the programming unit needs to be removed from the wall, to change the battery, only a suitable qualified person should perform this operation. See installation instructions.

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