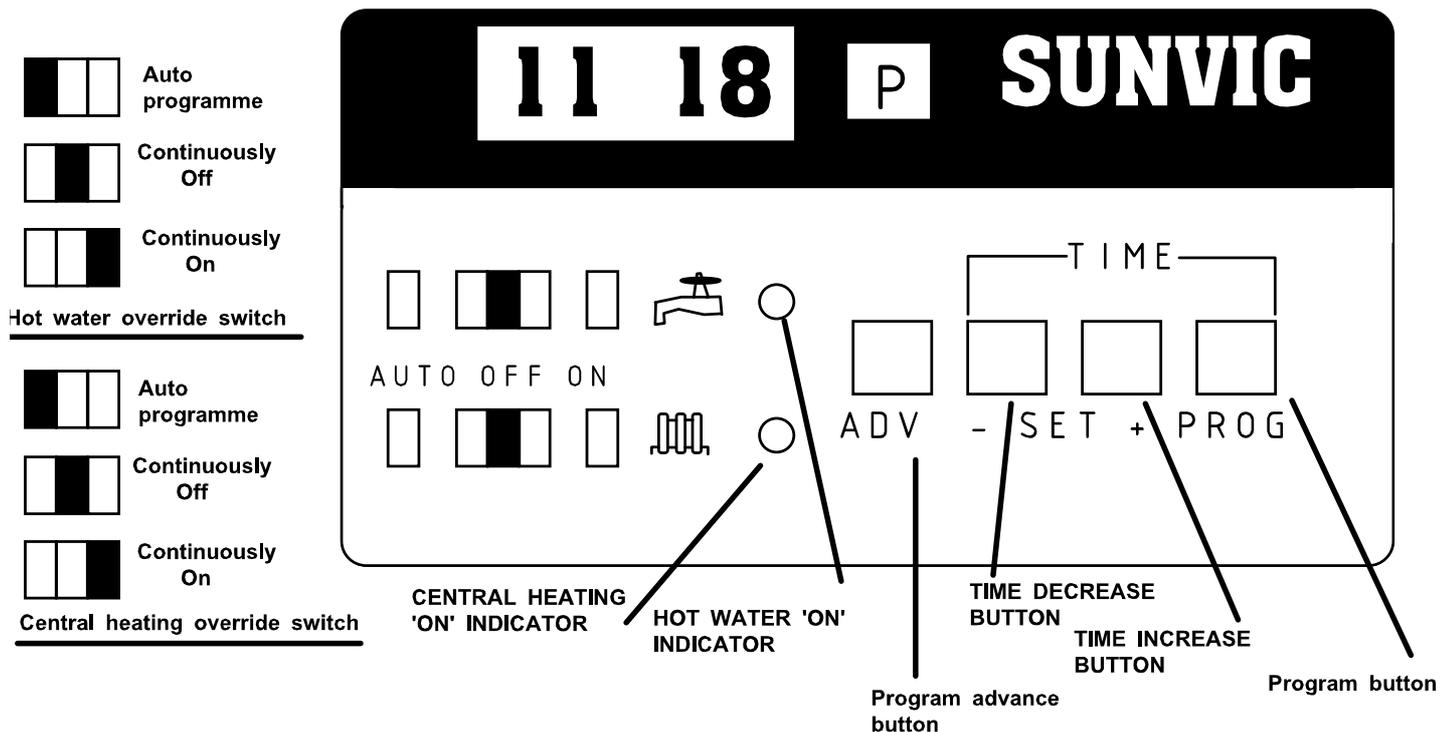


ET-Electronic central heating programmer(Display & user controls)



The SUNVIC ET PROGRAMMER is designed to provide flexibility and economy in central heating time control. The flexibility is achieved by the duration of the time periods, which can be as little as one minute upwards and the economy is obtained by the programmers switching accuracy, plus or minus one minute.

It has 4 ON/OFF periods during the 24 hour day and controls either central heating or hot water or both functions. Additionally the programmer has battery reserve and advance facility.

- 1.Power on..
- 2.How to set the time of day.
- 3.Time period start and finish displays.
- 4.How to set and check your time periods.
- 5.Advance button.
- 6.Manual override
- 7.What happens if there is a power failure?
- 8.Examples of typical time periods and display information.

1. POWER ON

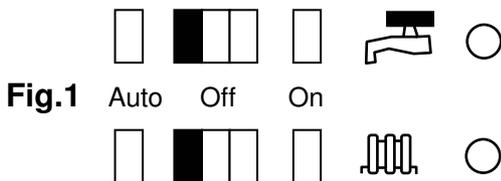
When power is supplied to the programmer, the display will show - - - -.

2. TO SET THE TIME OF DAY

Press the **PROGRAM** button once. Display will show 0000. Single presses on the **+** button will increase the time by one minute per press. If the **+** is held down, after the first second, the time will increase by one hour per second. Similarly, a single press on the **-** button will decrease the time display by one minute per press, and a continuous hold on the **-** will decrease the display by one hour per second. Once the required time is set, the display will function as a normal 24 hour clock.

3. TIME PERIOD START & FINISH DISPLAYS. PLEASE ENSURE YOU READ THIS SECTION BEFORE SETTING YOUR PROGRAMMES.

Before commencing to set the time periods, ensure that both override switches are in the **AUTO** position. (Fig 1) the normal programming position



START DISPLAY

To display the symbol for the start of the first time period, press **PROGRAM** button once. This will read ***1b=**, i.e. the start time of the first time period will appear after 2 seconds. On the first occasion you use your programmer, this will show four zero's 0000. During the five seconds of this display, the time you wish to enter can be set by using the **+** or **-** buttons. When this has been done, the display will revert to showing the time of day after five seconds.

FINISH DISPLAY

A further single press on the **PROGRAM** button, will show ***1f=**, i.e. the finish time for the period will be shown after two seconds. You can then set your programmer to the time you wish the first time period to end. The second, third and fourth time periods are programmed in the same way. The symbols for ***2b=** start of second time period, ***2f=** finish of second time period, ***3b=**, ***3f=**, ***4b=**, ***4f=**. The flashing asterisk during the time displays lets you distinguish these displays from the current time of day.

NOTE

If you allow the display to revert to time of day without entering either your desired start or finish time, a further press on the **PROGRAM** button will automatically display the next time period, start or finish.

For example if you have displayed ***2b=** and allowed the display to go back to the current time display without having entered your start time for this period, a further press on the **PROGRAM** button will automatically show ***2f=** the finish time.

To bring the display back to ***2b=**, single presses on the **PROGRAM** will run the displays through ***3b=**, ***3f=**, ***4b=**, ***4f=**, ***1b=**, ***1f=**, back to ***2b=**. This will not affect any programmes already entered, and the same procedure can also be used to recall any time period programmed.

4. HOW TO SET AND CHECK YOUR TIME PERIODS.

Remember to check that both override switches are in the **AUTO** position.

Press the **PROGRAM** button once. The display will read ***1b=**, for two seconds, after which any previously entered time will be displayed (or for the first time setting ***0000**) for five seconds. Set or alter the time by using the **+** or **-** buttons as previously described (Section 3).

A further five seconds after you have entered the required time, the display will again show time of day. (Remember, the flashing asterisk will distinguish between time period displays and current time of day displays). Another single press on the **PROGRAM** button will show *1f= and after two seconds you can enter or alter the time you wish the first time period to finish. The start of the second time period is obtained by a further single press on the **PROGRAM** button to display *2b=, and subsequent presses on this button will run the displays through *2f= *3b= etc.

If you want to check on any of the start or finish times you have entered, single presses on the **PROGRAM** button will recall the the appropriate symbol, i.e. *1b=, *1f=. etc. Two seconds after the symbol appears, your programmed start or finish will be displayed.

Two green indicator lights are provided, one beside the Hot water symbol  and one beside the Central heating symbol . These give a visual indication when both or either function is in use.

NOTE: After initial programming, or after alteration of the time periods, check that the displayed time of day is correct, and alter if necessary.

PROGRAMME ADVANCE BUTTON

Pressing the Advance button between programmes, allows the next programme (time period) to start immediately. This programme will terminate at its original finish time. Pressing the advance button during a programme (time period) will terminate it immediately.

5. MANUAL OVERRIDE

Two manual override switches are provided to allow you to control your central heating and hot water independantly of the programmed time period.

If during any time period the hot water control is not required, the override switch for hot water should be moved to the **OFF** position (Fig. 2).

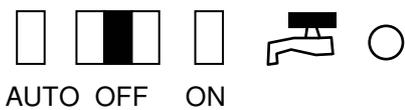
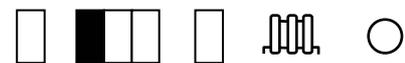


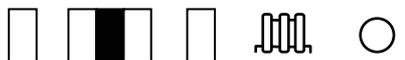
Fig 2



Similarly, if Central heating is not required The appropriate switch should be moved to the **OFF** position (Fig. 3).



Fig. 3



If at any time, either or both central heating and hot water control is required continuously, irrespective of the programmed time periods, the appropriate switch should be moved to the **ON** position. In Fig. 4 the the central heating will be ON continuously, while hot water control will be limited to the programmed time period. If both switches are moved to the OFF position, no time period control will function, and the unit will operat only as a 24 hour clock (Fig. 5).

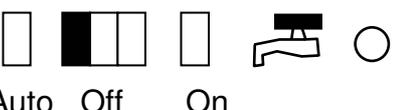


Fig. 4

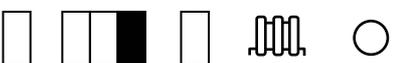
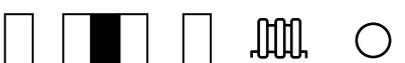
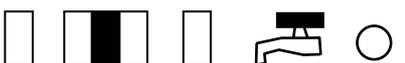


Fig. 5



6. WHAT HAPPENS IF THERE IS A POWER FAILURE?

Should the mains power be switched off, or if there is a power cut, the ET 1451 incorporates a re-chargeable battery which will maintain the programme setting for a minimum period of 11 hours. During this period, the 24 hour clock display will be unlit. The battery is automatically recharged once the power is restored. (maximum re-charge period is approximately 30 hours for a fully discharged battery).

On resumption of power, if for any reason the display flashes - - - -, then reprogramme as per procedures 1,2,3 and 4.

7. EXAMPLES OF TYPICAL TIME PERIODS AND DISPLAY INFORMATION.

Suppose you require your central heating and hot water to come on at 7a.m. (07:00) and go off at 9a.m. (09:00) come back on from 11:30a.m. (11:30) until 1:30p.m. (13:30) and again from 5p.m. (17:00) until 10:30p.m. (22:30), you will require to programme three time periods, the fourth time period not being used.

- a. When you first switch on the programmer, the display will show

- - - -

- b. To set the current time of day, press the **PROGRAM** button to show.

0000

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A continuous hold or single presses on the + or – button will rapidly or slowly increase or decrease the display until the current time is reached.

10:36

- c. To set the **START** time of the first time period, press **PROGRAM** once to show.

*1b=

Two seconds after the release of this button, you can then set or alter the display using the + or – button until 07:00 is displayed (the start time for your first time period).

The flashing asterisk indicates that the time period information is on display.

*07:00

- d. To set **FINISH** time, for the first time period, a further single press on the **PROGRAM** button will show.

*1f=

After two seconds, the finish of this time period can be entered as above by using the + or – button, until 09:00 is displayed.

*09:00

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