

Instructions for Universal UP 1 Programmer

The UP 1 Universal programmer will automatically switch your Heating and Hot Water ON & OFF at the times you choose. These times can be the same for every day of the week, the same for each weekday but different at the weekends or different each day. You can select one or two ON periods each day or you can have it continuously ON or OFF. If you have a fully pumped system, you will be able to have your heating ON when the Hot Water is OFF, or vice versa, and at different times if required. The red lights on the front will indicate when your Heating and/or Hot Water is on.

Programming

The clock in the UP 1 has to be set to the correct time, and then the programme has to be set to the times that you want your system to switch ON and OFF. There is a built-in programme of standard switching times, as shown below, which may be suitable. If not, then follow the instructions on how to set your programmer.

The programming sequence will depend upon which switching option has been selected.

There are 3 options as follows:

- 24 hour - Same times every day of the week
- 5/2 day - Weekday times different to the weekends
- 7 day - Allows different times for each day

Also you can choose to have the Central Heating and Hot Water switching at the same time (Linked), or at different times (Independent).

Your engineer should have set this at time of installation. If this has not been changed from the factory setting, then it will be in the 24 hour option with independent times. If you require one of the other options, 5/2 day or 7 day, or Linked times, you must refer to the Installation Instructions for details.

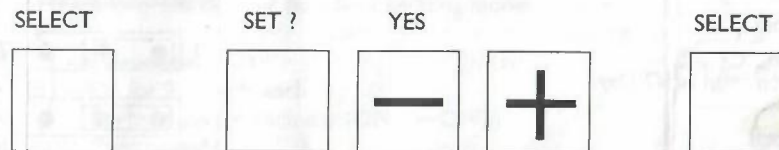
Factory Set Switching Times

SWITCHING Pres:	MON-FRI PROGRAMME		SAT-SUN * PROGRAMME	
	HW	CH	HW	CH
ON1 - Start of first timed 'ON' period of day	6:30am	6:30am	7:00am	7:00am
OFF1 - End of first timed period	8:30am	8:30am	9:00am	9:00am
ON2 - Start of second timed period	4:30pm	4:30pm	4:00pm	4:00pm
OFF2 - Final switch off	10:30pm	10:30pm	11:00pm	11:00pm

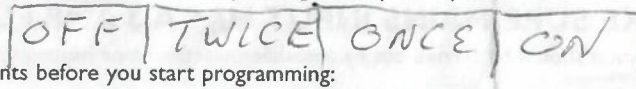
* Note that the SAT-SUN programme is not available in the 24 hour option.

Pull down the lower flap on the front of the programmer.

You will see 5 buttons marked as follows:



The buttons in the middle are used for setting the clock and programme times. The two 'SELECT' buttons are used to choose the operating mode you require (OFF, ONCE, TWICE, ON).



Please note the following points before you start programming:

You cannot set the first ON time before midnight but you can set the last OFF time after midnight providing it is no more than 23 hours 50 minutes after the first ON.

You must set the ON's and OFF's in sequence. For example, if you try to set OFF1 before ON1 the two times will lock together and the display will start to flash, warning you of your mistake.

If you lose track of you programming and want to start again you can reset to the factory programme by pressing the 'SET' and '+' buttons at the same time.

When programming, if no buttons are pressed for 2 minutes, the UPI will revert to operating mode.

Setting the Clock

Please note that if you have selected the 24 hour option then the day will not show in the display and therefore will not need to be set.

Press the 'SET ?' button once. The question SET CLOCK ? will appear in the display.

Press the 'YES' button once and the day part of the display will start flashing.

Use the '-' and '+' buttons to change the day.

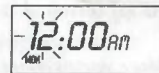
Press the 'YES' button once and the hour part of the time will start flashing. Use the '-' and '+' buttons to set the correct hour (check for the AM or PM symbol), and then press 'SET ?'.

Now the minutes will be flashing and you use the '-' and '+' again to set the exact time. Press 'SET ?' to finish setting the clock.

You will now see SET PROG ? in the display.

If you do not wish to alter the programme at this time, then press SET ? again to return to normal operating mode.

See next section for how to set your programme.



Setting the Programme -24 Hour Option

Please note that these instructions are based on 'Independent' times. Therefore if you have chosen 'Linked' times then the CH and HW will not appear in the display and you will only have to programme one set of times.

- 1) Press the 'SET?' button until the display asks *SET PROG ?* and then press the 'YES' button.
- 2) The display will then ask *SET CH PROG ?* (CH = Central Heating). Press 'YES' and you will see the first ON time (ON 1) for your Central Heating. This can be altered in ten minute steps using the '-' and '+' buttons. When the display is showing the time you want, press the 'SET ?' button to see the OFF 1 time. This also can be changed in the same way. Repeat this process for the ON 2 and OFF 2 times. If you do not want to change one of the times, then simply press 'SET ?' to move to the next switching time.
- 3) After you have set the OFF 2 the display will ask *SET HW PROG ?* (HW = Hot Water). Press 'YES' and set your times in the same way as before, but remember you can have different times to your central heating if you have a fully pumped system and your programmer is set for independent times. When you press 'SET ?' after the OFF 2 for HW the UP 1 will go into normal operating mode.



Setting the Programme - 5/2 Day Option

Please note that these instructions are based on 'Independent' times. Therefore if you have chosen 'Linked' times then the CH and HW will not appear in the display and you will only have to programme one set of times.

- 1) Press the 'SET?' button until the display asks *SET PROG ?* and then press the 'YES' button. The display will then ask *SET CH MON to FRI PROG?* Press 'YES' and you will see the first ON time (ON 1) for your Central Heating. This can be altered in ten minute steps using the '-' and '+' buttons. When the display is showing the time you want, press the 'SET ?' button to see the OFF 1 time. This also can be changed in the same way. Repeat this process for the ON 2 and OFF 2 times. If you do not want to change one of the times, then simply press 'SET ?' to move to the next switching time.



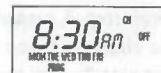
2) After you have set the OFF 2 the display will ask *SET HW MON to FRI PROG ?*

Press 'YES' and set your times in the same way as before, but remember you can have different times to your central heating if you have a fully pumped system and your programmer is set for independent times.

3) When you press 'SET ?' after the OFF 2 for HW the display will ask *SET CH SAT SUN PROG?*

Press 'YES' to change times as required and then repeat when asked *SET HW SAT SUN PROG?*

When you press 'SET ?' after the OFF 2 for HW the UP 1 will go into normal operating mode.



Setting the Programme - 7 Day Option

Please note that these instructions are based on 'Independent' times. Therefore if you have chosen 'Linked' times then the CH and HW will not appear in the display and you will only have to programme one set of times.

- 1) Press the 'SET?' button until the display asks *SET PROG ?* and then press the 'YES' button.

The display will then ask *SET MON to FRI PROG?*

Note: The grouping of days in this way is to enable times which apply to each and all of the weekdays to be set first, followed by the opportunity to change one or more times for any single day. (If you need to set each weekday at totally different times then press 'SET?' and move on to step 4.)

- 2) Press 'YES' and the display will then ask *SET CH MON to FRI PROG?*

Press 'YES' and you will see the first ON time (ON 1) for your Central Heating. This can be altered in ten minute steps using the '-' and '+' buttons.

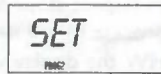
When the display is showing the time you want, press the 'SET ?' button to see the OFF 1 time. This also can be changed in the same way. Repeat this process for the ON 2 and OFF 2 times.

If you do not want to change one of the times, then simply press 'SET ?' to move to the next switching time.

- 3) After you have set the OFF 2 the display will ask *SET HW MON to FRI PROG ?*

Press 'YES' and set your times in the same way as before, but remember you can have different times to your central heating if you have a fully pumped system and your programmer is set for independent times.

Steps 4 to 7 explain how to set times for each day individually. If you now want to change the settings for one or more of the weekdays, then continue



from step 4, pressing the 'SET?' button until you find the day(s) that needs to be changed. If you are happy with your weekday times then press 'SET?' repeatedly until the display asks SET SAT SUN PROG? and go to step 8.

4) The display will then ask SET MON PROG?

5) Press 'YES' and the display will ask SET CH MON PROG?

Press 'YES' again and you will see the first ON time (ON 1) for your Central Heating for Monday. This can be altered in ten minute steps using the '-' and '+' buttons. When the display is showing the time you want, press the 'SET ?' button to see the OFF 1 time. This also can be changed in the same way.

Repeat this process for the ON 2 and OFF 2 times.

If you do not want to change one of the times, then simply press 'SET ?' to move to the next switching time.

6) After you have set the OFF 2 the display will ask SET HW MON PROG? Press 'YES' and set your times in the same way as before, but remember you can have different times from your central heating if you have a fully pumped system and your programmer is set for independent times.

When you press 'SET ?' after the OFF 2 for Monday HW the display will show SET TUE PROG?

7) Repeat steps 5 and 6 to set the times for Tuesday and continue this process for all five weekdays. When you have set the OFF2 for Friday HW the display will ask SET SAT SUN PROG?

8) As with the weekdays you can set the same times for Saturday and Sunday or you can set them separately. If you want to set the same times for Saturday and Sunday then go to step 9. If you want to set them separately, then go to step 10.

9) Press 'YES' and change the settings for the CH and then HW as you did before. Note that after setting the OFF2 for HW the display will ask if you want to set Saturday and then Sunday. Ignore this by pressing 'SET?' twice, which will return you to the normal operating mode.

10) Press 'SET?' then 'YES'. Now you can set your Saturday CH and HW, and then Sunday CH and HW using the same process as before.

When you press 'SET ?' after the OFF 2 for Sunday HW the UP 1 will go into normal operating mode.



Operating Modes

On either side of the display are the four possible operating modes

- OFF - Continuously Off
- TWICE - On for 2 periods each day
- ONCE - On for 1 period each day (ON1 → OFF2)
- ON - Continuously On



Using the SELECT buttons move the small arrows in the display to line up with which operating mode you require.

You can choose a different mode for your heating to your hot water providing you have a fully pumped system and your programmer is set for independent times.

Advance Buttons

You have two ADVANCE buttons, one for heating and one for hot water. You can use these to manually switch ON and OFF without affecting the times which are programmed into your UP 1. That means that if the heating is OFF and not due switch on for some time, you can press the ADVANCE button to bring it on immediately and it will stay on until the end of the next ON period.

Installation

The UP 1 is a fully selectable programmer, which means that it has to be set to the customer's requirements as part of the installation process.

There are 3 options as follows:

- 24 hour - Same times every day of the week
- 5/2 day - Weekday times different to the weekends
- 7 day - Allows different times for each day

Each one of these options can be set so that the Central Heating and Hot Water switch at the same time (Linked), or at different times (Independent).

The factory setting is 24 hour with Independent times, and a fully-pumped system.

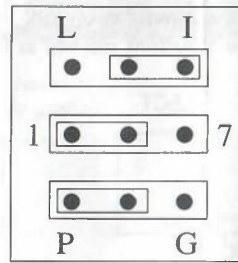
Changes to these settings are made using the 3 plastic headers on the back of the programmer.

The diagram shows the factory-set positions of these headers. Each slot has 3 pins and the header fits over 2 of the 3 pins. To change settings simply pull the header off and push into the new position.

L = Linked Times
I = Independent Times

1 = 24 hour
7 = 7 Day
Header removed is 5/2 Day

P = Pumped
G = Gravity



MAKE SURE MAINS INPUT HAS A 3 AMP FUSE

Installation should be carried out by a qualified electrician or heating engineer.

If the EXISTING WALL-PLATE can be used

Switch off mains. Loosen the securing screws on the old programmer and unplug it. Check that there is 70mm clearance to the right of the wall-plate and 25mm above it.

Plug the UP I onto the wall-plate. Re-tighten securing screws. **Check fuse (3A)** and switch on mains.

Fitting NEW WALL-PLATE provided

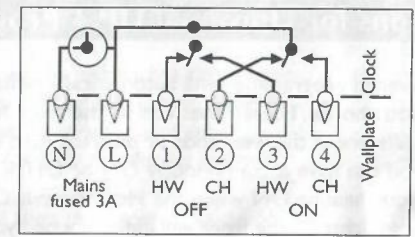
Position the wall-plate with 70mm clearance to its right, 25mm above and access to the securing screws underneath. Ensure that the supporting surface will fully cover the back of the programmer. The ideal location is 1.4M above floor level, accessible, reasonably lit and free from condensation or extremes of temperature.

Fix the wall-plate, terminals at the top, either direct to a flat wall using wall plugs and No. 6 x 1" woodscrews or on a flush mounting single conduit box type UA1 (BS4662) using M3.5 x 14 bolts. **DO NOT** use a surface mounting box.

Ensure the mains supply is switched off then make wiring connections as shown in this leaflet. For surface wiring, use pliers to snap out the removable cable entry strip on the bottom edge of the wall-plate. The UP I is double insulated and needs no earth connection but an earthing continuity (loop) terminal is provided for convenience.

After wiring, plug in the UP I and tighten the securing screws. Check the fuse (3A) and switch on the mains. Switch off mains before removing programmer from wall-plate.
NEVER FIT THE PROGRAMMER TO A LIVE WALL-PLATE

Programmer Internal Wiring



CONFORMS TO THE ESSENTIAL REQUIREMENTS
OF THE FOLLOWING DIRECTIVES:
89/336/EEC - Electromagnetic compatibility
73/23/EEC - Low voltage directive

PREMIER PACK USER INSTRUCTIONS

Instructions for Universal UP 1 Programmer

The UP 1 Universal programmer will automatically switch your Heating and Hot Water ON & OFF at the times you choose. These times can be the same for every day of the week, the same for each weekday but different at the weekends or different each day. You can select one or two ON periods each day or you can have it continuously ON or OFF. If you have a fully pumped system, you will be able to have your heating ON when the Hot Water is OFF, or vice versa, and at different times if required. The red lights on the front will indicate when your Heating and/or Hot Water is on.

Programming

The clock in the UP 1 has to be set to the correct time, and then the programme has to be set to the times that you want your system to switch ON and OFF. There is a built-in programme of standard switching times, as shown below, which may be suitable. If not, then follow the instructions on how to set your programmer.

The programming sequence will depend upon which switching option has been selected.

There are 3 options as follows:

- 24 hour - Same times every day of the week
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Also you can choose to have the Central Heating and Hot Water switching at the same time (Linked), or at different times (Independent).

Your engineer should have set this at time of installation. If this has not been changed from the factory setting, then it will be in the 24 hour option with independent times. If you require one of the other options, 5/2 day or 7 day, or Linked times, you must refer to the Installation Instructions for details.

Factory set switching times

SWITCHING	MON-FRI PROGRAMME		SAT-SUN * PROGRAMME	
	HW	CH	HW	CH
ON1 - Start of first timed 'ON' period of day	6:30am	6:30am	7:00am	7:00am
OFF1 - End of first timed period	8:30am	8:30am	9:00am	9:00am
ON2 - Start of second timed period	4:30pm	4:30pm	4:00pm	4:00pm
OFF2 - Final switch off	10:30pm	10:30pm	11:00pm	11:00pm

Please note that the SAT-SUN programme is not available in the 24 hour option.

Pull down the lower flap on the front of the programmer.

You will see 5 buttons marked as follows:

SELECT



SET ?



YES



SELECT



The three buttons in the middle are used for setting the clock and programme times.

The two 'SELECT' buttons are used to choose the operating mode you require (OFF, ONCE, TWICE, ON).

Please note the following points before you start programming:

You cannot set the first ON time before midnight but you can set the last OFF time after midnight providing it is no more than 23 hours 50 minutes after the first ON.

You must set the ON's and OFF's in sequence. For example, if you try to set OFF1 before ON1 the two times will lock together and the display will start to flash, warning you of your mistake.

If you loose track of you programming and want to start again you can reset to the factory programme by pressing the 'SET' and '+' buttons at the same time.

When programming, if no buttons are pressed for 2 minutes, the UPI will revert to operating mode.

Setting the clock

Please note that if you have selected the 24 hour option then the day will not show in the display and therefore will not need to be set.

Press the 'SET ?' button once. The question *SET CLOCK ?* will appear in the display.

Press the 'YES' button once and the day part of the display will start flashing.

Use the '-' and '+' buttons to change the day.

Press the 'YES' button once and the hour part of the time will start flashing.

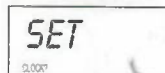
Use the '-' and '+' buttons to set the correct hour (check for the AM or PM symbol), and then press 'SET ?'.

Now the minutes will be flashing and you use the '-' and '+' again to set the exact time.

Press 'SET ?' to finish setting the clock.

You will now see *SET PROG ?* in the display.

If you do not wish to alter the programme at this time, then press SET? again to return to normal operating mode.



See next section for how to set your programme.

Setting the programme - 24 hour option

Please note that these instructions are based on 'Independent' times. Therefore if you have chosen 'Linked' times then the CH and HW will not appear in the display and you will only have to programme one set of times.

1. Press the 'SET?' button until the display asks *SET PROG ?* and then press the 'YES' button.
2. The display will then ask *SET CH PROG ?* (CH = Central Heating). Press 'YES' and you will see the first ON time (ON 1) for your Central Heating. This can be altered in ten minute steps using the '-' and '+' buttons. When the display is showing the time you want, press the 'SET ?' button to see the OFF 1 time. This also can be changed in the same way. Repeat this process for the ON 2 and OFF 2 times.

If you do not want to change one of the times, then simply press 'SET ?' to move to the next switching time.

3. After you have set the OFF 2 the display will ask *SET HW PROG ?* (HW = Hot Water). Press 'YES' and set your times in the same way as before, but remember you can have different times to your central heating if you have a fully pumped system and your programmer is set for independent times.

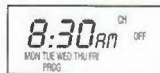
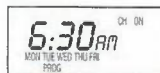
When you press 'SET ?' after the OFF 2 for HW the UP 1 will go into normal operating mode.



Setting the programme - 5/2 day option

Please note that these instructions are based on 'Independent' times. Therefore if you have chosen 'Linked' times then the CH and HW will not appear in the display and you will only have to programme one set of times.

1. Press the 'SET?' button until the display asks *SET PROG ?* and then press the 'YES' button.
The display will then ask *SET CH MON to FRI PROG?*
Press 'YES' and you will see the first ON time (ON 1) for your Central Heating. This can be altered in ten minute steps using the '-' and '+' buttons. When the display is showing the time you want, press the 'SET ?' button to see the OFF 1 time. This also can be changed in the same way. Repeat this process for the ON 2 and OFF 2 times.
If you do not want to change one of the times, then simply press 'SET ?' to move to the next switching time.
2. After you have set the OFF 2 the display will ask *SET HW MON to FRI PROG ?*
Press 'YES' and set your times in the same way as before, but remember you can have different times to your central heating if you have a fully pumped system and your programmer is set for independent times.
3. When you press 'SET ?' after the OFF 2 for HW the display will ask *SET CH SAT SUN PROG?*
Press 'YES' to change times as required and then repeat when asked *SET HW SAT SUN PROG?*
When you press 'SET ?' after the OFF 2 for HW the UP 1 will go into normal operating mode.



Setting the programme - 7 day option

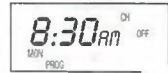
Please note that these instructions are based on 'Independent' times. Therefore if you have chosen 'Linked' times then the CH and HW will not appear in the display and you will only have to programme one set of times.

1. Press the 'SET?' button until the display asks *SET PROG ?* and then press the 'YES' button.
The display will then ask *SET MON to FRI PROG?*
Note: The grouping of days in this way is to enable times which apply to each and all of the weekdays to be set first, followed by the opportunity to change one or more times for any single day. (If you need to set each weekday at totally different times then press 'SET?' and move on to step 4.)
2. Press 'YES' and the display will then ask *SET CH MON to FRI PROG?*
Press 'YES' and you will see the first ON time (ON 1) for your Central Heating. This can be altered in ten minute steps using the '-' and '+' buttons. When the display is showing the time you want, press the 'SET ?' button to see the OFF 1 time. This also can be changed in the same way. Repeat this process for the ON 2 and OFF 2 times.
If you do not want to change one of the times, then simply press 'SET ?' to move to the next switching time.
3. After you have set the OFF 2 the display will ask *SET HW MON to FRI PROG ?*
Press 'YES' and set your times in the same way as before, but remember you can have different times to your central heating if you have a fully pumped system and your programmer is set for independent times.



Steps 4 to 7 explain how to set times for each day individually. If you now want to change the settings for one or more of the weekdays, then continue from step 4, pressing the 'SET?' button until you find the day(s) that needs to be changed. If you are happy with your weekday times then press 'SET?' repeatedly until the display asks SET SAT SUN PROG? and go to step 8.

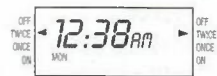
4. The display will then ask SET MON PROG?
5. Press 'YES' and the display will ask SET CH MON PROG?
Press 'YES' again and you will see the first ON time (ON 1) for your Central Heating for Monday. This can be altered in ten minute steps using the '-' and '+' buttons. When the display is showing the time you want, press the 'SET ?' button to see the OFF 1 time. This also can be changed in the same way. Repeat this process for the ON 2 and OFF 2 times.
If you do not want to change one of the times, then simply press 'SET ?' to move to the next switching time.
6. After you have set the OFF 2 the display will ask SET HW MON PROG?
Press 'YES' and set your times in the same way as before, but remember you can have different times from your central heating if you have a fully pumped system and your programmer is set for independent times.
When you press 'SET ?' after the OFF 2 for Monday HW the display will show SET TUE PROG?
7. Repeat steps 5 and 6 to set the times for Tuesday and continue this process for all five weekdays. When you have set the OFF2 for Friday HW the display will ask SET SAT SUN PROG?
8. As with the weekdays you can set the same times for Saturday and Sunday or you can set them separately. If you want to set the same times for Saturday and Sunday then go to step 9. If you want to set them separately, then go to step 10.
9. Press 'YES' and change the settings for the CH and then HW as you did before. Note that after setting the OFF2 for HW the display will ask if you want to set Saturday and then Sunday. Ignore this by pressing 'SET?' twice, which will return you to the normal operating mode.
10. Press 'SET?' then 'YES'. Now you can set your Saturday CH and HW, and then Sunday CH and HW using the same process as before.
When you press 'SET ?' after the OFF 2 for Sunday HW the UP 1 will go into normal operating mode.



Operating modes

On either side of the display are the four possible operating modes

- | | |
|-------|---------------------------------------|
| OFF | - Continuously Off |
| TWICE | - On for 2 periods each day |
| ONCE | - On for 1 period each day (ON1 OFF2) |
| ON | - Continuously On |



Using the SELECT buttons move the small arrows in the display to line up with which operating mode you require.

You can choose a different mode for your heating to your hot water providing you have a fully pumped system and your programmer is set for independent times.

Advance buttons

You have two ADVANCE buttons, one for heating and one for hot water.

You can use these to manually switch ON and OFF without affecting the times which are programmed into your UP 1. That means that if the heating is OFF and not due switch on for some time, you can press the ADVANCE button to bring it on immediately and it will stay on until the end off the next ON period.

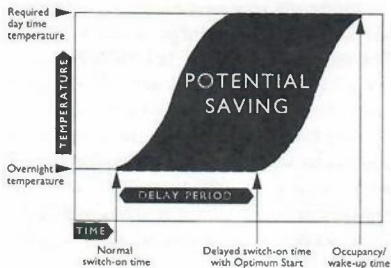
Principle of Optimum Start

The majority of people set their heating to come on one hour before they get up. This is usually long enough to ensure that the rooms are up to temperature, even in the coldest conditions.

During milder weather a full one hour preheat is probably not required. So in some cases, the boiler could be burning fuel unnecessarily for up to 1 hour.

The optimum start feature saves this fuel wastage by measuring the room temperature when the heating is due to switch on. The unit then decides whether to switch on

right away, or delay the start for up to 1 hour. By using optimum start, savings in fuel, and reduction of CO₂ emissions will be achieved.



Setting

1. Set the desired room temperature on the control knob against the setting mark.
2. The setting range may be limited or a particular setting locked through the use of the mechanism to be found under the control knob.
3. To adjust the limiters firstly set the thermostat to the desired temperature and then carefully pull off the knob.
4. Lift and rotate the two limiting arms to re-position them in the required notches.
5. Replace the knob with the previously set temperature against the setting mark.

Operation

1. With no power to the ESI (ie. the central heating is switched off) the Energy Saver will not operate and the LED will be off.
2. When the heating clock switches on, the ESI will measure room temperature and if it is not too low, will initiate an optimum start delay before allowing the heating to switch on. During this period the LED will flash to show you are saving energy and money. The length of the delay will be determined by the ESI setting and the measured temperature (see graph overleaf).
3. If the SAVE button is pressed during the optimum start delay period, the delay will be cancelled and the heating will be controlled by the thermostat. The LED will indicate whether the ESI is calling for heat. A second press of the SAVE button will recalculate a new optimum start period and recommence the delay from that point in time and the measured room temperature.
4. Once the optimum start delay period has finished the heating will be controlled with the ESI operating as a normal room thermostat. The LED will indicate when there is a call for heat.
5. If the SAVE button is pressed during normal operation, an optimum start delay period will begin and the LED will flash. A second press of the SAVE button will return the heating to normal operation, as long as the heating clock is still switched on. Using the SAVE button in this manner can effectively switch the heating off for up to one hour, once rooms have reached the set temperature.

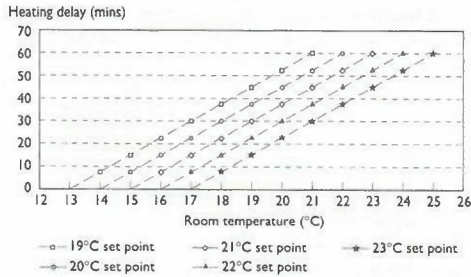
Technical data

Optimum start: For a 20°C set point:
i) temperature below 14°C = no delay
ii) temperature above 22°C = 60 mins delay (approx)
The delay will vary at temperatures between 14°C - 22°C
(see graph on next page).

LED indicator: On = calling for heat
Off = satisfied
Flashing = saving energy

Optimum start delay

19 – 23°C set points. The delay starts when the heating clock switches on.



Important note

The ESI thermostat is ELECTRONIC with a relay output. Unless connected to a 230V mains supply the relay will not operate, no 'click' will be heard and the call for heat contact will remain open.

Once the ESI is installed, set the programmer CH "ON" time to allow for adequate pre-heat. Normally forty five minutes to an hour of pre-heat is sufficient before the selected room temperature is achieved. On milder days only the ESI will delay this heat start time and save energy. The ESI will not affect the hot water start time.

CSI Cylinder Stat

To adjust the hot water temperature, use a screwdriver to position the setting arrow to the desired temperature. 60°C is normally recommended.

ALL PRODUCTS CONFORM TO THE ESSENTIAL REQUIREMENTS OF THE FOLLOWING DIRECTIVES:



090-809
0800

89/336/EEC – Electromagnetic compatibility
73/23/EEC – Low Voltage Directive

Scottish Gas  British Gas 