

users guide

istor

Your Ideal users guide

HE260, HE325

When replacing any part on this appliance, use only spare parts that you can be assured conform to the safety and performance specification that we require. Do not use reconditioned or copy parts that have not been clearly authorised by Ideal

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i *Ideal* BOILERS
The High Efficiency Pioneers

istor

(Natural Gas only)

Destination Countries: UK, IE

G.C. Appliance No.

HE260 41-394-13

G.C. Appliance No.

HE325 41-394-14

Introduction

The **istor HE260 & HE325** are fully automatically controlled, condensing, system store, fan flued boilers.

Due to the high efficiency of the boiler, condensate is produced from the flue gases and this is drained to a suitable disposal point through the plastic waste pipe at the lower rear of the boiler. A condensate 'plume' will also be visible at the flue terminal.

The **istor** is a system store boiler providing both central heating and domestic hot water.

Safety

Current Gas Safety (Installation & Use) Regulations or rules in force.

In your own interest, and that of safety, it is the law that this boiler must be installed by a Gas Safe Registered Engineer, in accordance with the above regulations.

It is essential that the instructions in this booklet are strictly followed, for safe and economical operation of the boiler.

Electricity Supply (boiler)

This appliance must be earthed.

Supply: 230 V ~ 50 Hz. The fusing should be 3A.

Connection must be made in a way that allows complete isolation of the electrical supply such as a double-pole switch, having a 3mm (1/8") contact separation in both poles, serving only the boiler and system controls. Alternatively, a 3-pin UNSWITCHED socket may be used. The means of isolation must be accessible to the user after installation.

Electricity Supply (immersion heater)

Supply: 230 V ~ 50 Hz. The fusing should be 13A.

The immersion heater is supplied fitted to the cylinder and is intended for use as a back up heat source for DHW should the boiler fail for some reason. Optimum DHW performance will not be achieved using the immersion heater only.

Wire the heater through a double-pole switch or controller, having contact separation of at least 3mm, using a cable size of at least 1.5sq. mm flexible cable, 85 °C rubber insulated HOFR Sheathed, complying with BS6141 Table 8. It **MUST** be fully earthed. Ensure all terminal connections are securely made. Do not however use excessive force when tightening terminals.

Important Notes

- This appliance must not be operated without the casing correctly fitted and forming an adequate seal.
- If the boiler is installed in a compartment then the compartment **MUST NOT** be used for storage purposes.
- If it is known or suspected that a fault exists on the boiler then it **MUST NOT BE USED** until the fault has been corrected by a Gas Safe Registered Engineer.
- Under **NO** circumstances should any of the sealed components on this appliance be used incorrectly or tampered with.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instructions concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.

In cases of repeated or continuous shutdown a Gas Safe Registered Engineer should be called to investigate and rectify the condition causing this and carry out an operational test. Only the manufacturers original parts should be used for replacement.

Minimum Clearances

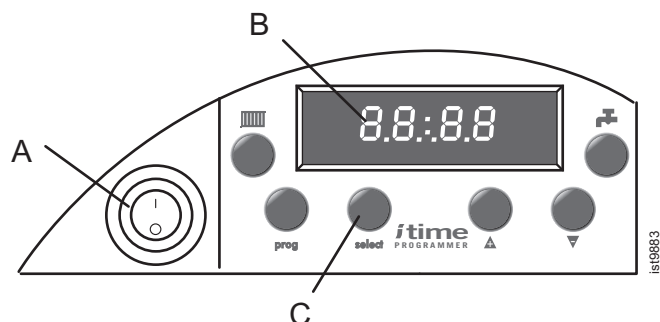
Clearances of **165mm (6 1/2")** above, **5mm (1/4")** at the sides and **450mm (17 3/4")** at the front of the boiler casing must be allowed for servicing.

The minimum front clearance allowed when built into a cupboard is 5mm.

1 BOILER CONTROLS

Legend

- A. Boiler ON/OFF switch
- B. Display
- C. Select button



All Gas Safe Registered Installers carry a Gas Safe Register ID card, and have a registration number. Both should be recorded in the **Benchmark** Commissioning Checklist. You can check your installer by calling Gas Safe Register direct on 0800 4085500

Ideal Stelrad Group is a member of the Benchmark scheme and fully supports the aims of the programme. Benchmark has been introduced to improve the standards of installation and commissioning of central heating systems in the UK and to encourage the regular servicing of all central heating systems to ensure safety and efficiency.



THE BENCHMARK SERVICE INTERVAL RECORD MUST BE COMPLETED AFTER EACH SERVICE

To Light the Boiler. Refer to Frame 1

The boiler incorporates a factory fitted programmer, refer to page 5 onwards of these instructions for setting the programmer before continuing.

1. CHECK THAT THE ELECTRICITY SUPPLY TO THE BOILER IS OFF.
2. Set the mains ON/OFF switch (A) to OFF.
3. Ensure that all DHW taps are turned off.
4. Switch ON the electricity supply to the boiler and check that the room thermostat is set to call for heat.
5. Set the mains ON/OFF switch to ON.

The boiler will commence the ignition sequence, first supplying heat to pre-heat the domestic hot water and then to the central heating, if required.

Note. In normal operation the time programmer display (B) will show the time of day.

Standby - no demand for heat.

☐ CH being supplied.

⚡ DHW being supplied.

During normal running the flame symbol will remain illuminated.

Note. If the boiler fails to light after 3 attempts the fault code "LF" will be displayed.

Press the select button (C) for greater than 3 seconds then release. The boiler will repeat the ignition sequence. If the boiler still fails to light consult a Gas Safe Registered Engineer or in IE a Registered Gas Installer (RGI).

Operation

Winter conditions - i.e. CH and DHW required.

The boiler will fire and supply heat to the radiators but will give priority to DHW on demand during timed on periods.

The DHW pre-heat will operate as described under 'Summer conditions' during periods when there is no call for CH.

Summer conditions - i.e. DHW only required.

Set the CH mode to OFF.

The boiler will fire periodically for a short period to maintain the DHW storage tank in a pre-heated condition during a timed on period. The average time period between firing is 90 minutes. This may vary considerably due to the surrounding ambient temperature of the boiler. The boiler will fire whenever there is a demand for DHW during a timed on period.

Note. The pump will operate briefly as a self-check once every 24 hours, regardless of system demand.

Control of water temperature

Domestic Hot Water

The DHW delivery temperature is controlled by thermostatic mixer within the tank module (see illustration below).

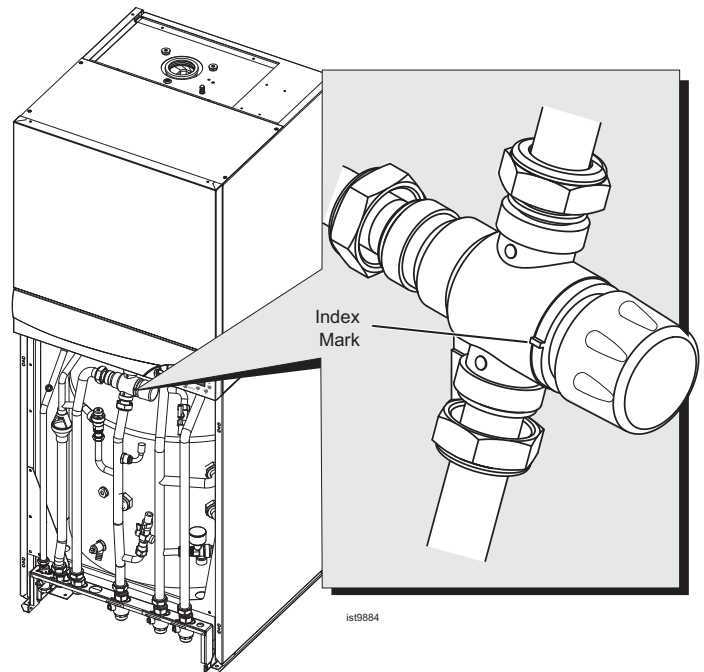
Pull off the lower door from its locating pegs and adjust the mixer valve to the required DHW delivery temperature.

IMPORTANT

60°C is the recommended maximum temperature.

Central Heating

The boiler controls the central heating radiator temperature to a maximum of 82°C, adjustable via the CH temperature set point adjustment within the programmer.



Domestic Hot Water	
Knob setting	DHW Temp °C
Min	30
1	34
2	39
3	43
4	48
5	52
6	56
7	61
Max	65

Approx. flow temperatures for the boiler thermostat settings are:

Central Heating	
	CH Flow Temp °C (°F)
Max	82 (180)
Min	30 (86)

CAUTION. To avoid the possibility of injury during the installation, servicing or cleaning of this appliance care should be taken when handling edges of sheet steel components.

To shut down the boiler

1. For short periods

Set the mains ON/OFF switch (A) to OFF

2. For longer periods

Set the mains ON/OFF switch (A) to OFF, and switch the electricity supply to OFF. For longer periods the entire system should be drained.

To relight the boiler

Repeat the procedure detailed in 'To light the boiler'.

Frost protection

If frost protection is required then the boiler should be left powered. The boiler has built in boiler frost protection to ensure that the water in the heat exchanger does not drop below 4°C.

Boiler overheat thermostat

This thermostat will shut down the boiler in the event of overheating. Should this occur a fault code "LA" will be displayed. Press the select button (C) for greater than 3 seconds and the boiler will relight.

If the fault recurs, turn off the boiler and consult a Gas Safe Registered Engineer or in IE a Registered Gas Installer (RGII).

Flame failure

Should this occur a fault code "LF" will be displayed. Press the select button (C) for greater than 3 seconds and the boiler will relight.

If the fault recurs, turn off the boiler and consult a Gas Safe Registered Engineer or in IE a Registered Gas Installer (RGII).

Loss of system water pressure

The gauge (see illustration below) indicates the central heating system pressure. If the pressure is seen to fall below the original installation pressure of 1-2 bar over a period of time then a water leak is indicated. In this event a Gas Safe Registered Engineer should be consulted.

DO NOT FIRE THE BOILER IF THE PRESSURE HAS REDUCED TO ZERO FROM THE ORIGINAL SETTING.

Condensate Drain

The condensate drain must not be modified or blocked.

Blockage of the condensate drain, caused by debris or freezing, can cause automatic shutdown of the boiler.

If freezing is suspected and the pipe run is accessible an attempt may be made to free the obstruction by pouring hot water over the exposed pipe and clearing any blockage from the end of the pipe. If this fails to remedy the problem the assistance of a Gas Safe Registered Engineer should be sought.

Escape of gas

Should a gas leak or fault be suspected contact your local gas supplier without delay.

Do NOT search for gas leaks with a naked flame.

Cleaning

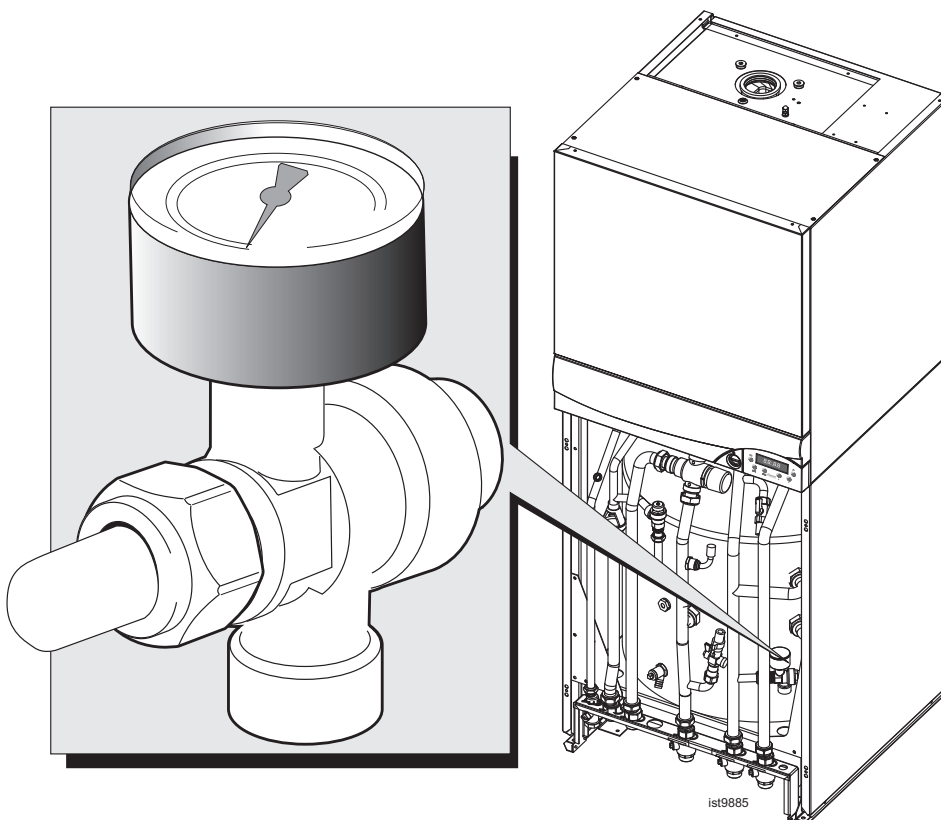
For normal cleaning simply dust with a dry cloth.

To remove stubborn marks and stains, wipe with a damp cloth and finish off with a dry cloth.

DO NOT use abrasive cleaning materials.

Maintenance




The appliance should be serviced at least once a year by a Gas Safe Registered Engineer.



POINTS FOR THE BOILER USER

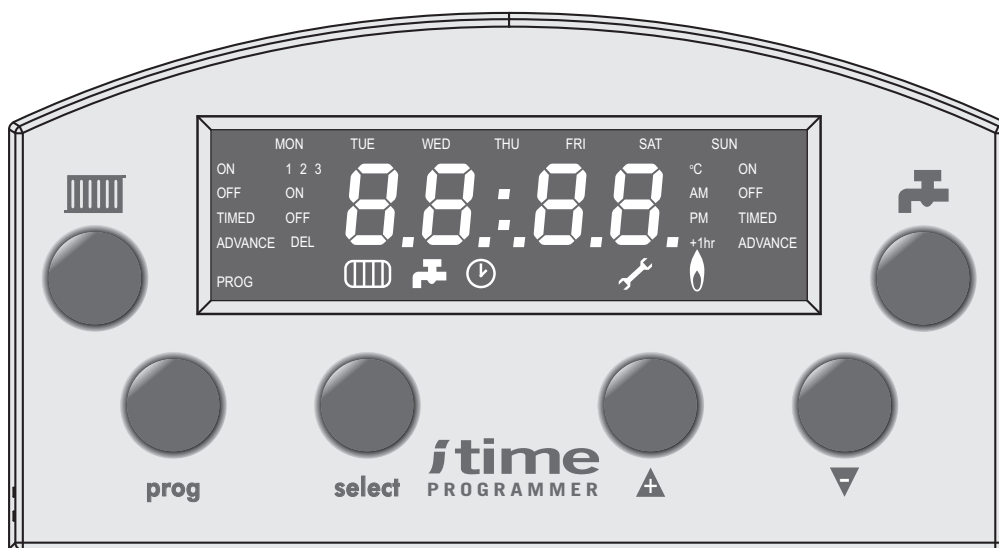
Note. In line with our current warranty policy we would ask that you check through the following guide to identify any problems external to the boiler prior to requesting a service engineers visit. Should the problem be found to be other than with the appliance we reserve the right to levy a charge for the visit, or for any pre-arranged visit where access is not gained by the engineer.

TROUBLESHOOTING - TYPICAL NON PRODUCT FAULTS

	Problem	Solution
1	Boiler is not working for central heating or hot water.	<ul style="list-style-type: none"> Check there is power to the boiler – switch (A) to the ON position and the time of day is displayed on the controls. Ensure that the programmer is in an ON period if turned or set to ON. If the time of day is not displayed then not a boiler fault – contact your installer/service company.
2	<i>Boiler is not working for central heating or hot water but attempts to fire by going through 3 ignition attempts. Display shows 'L:F' (flashing).</i>	<ul style="list-style-type: none"> Press select (reset) button (C) for greater than 3 seconds to repeat ignition sequence. Check gas supply (try another appliance – cooker/fire etc.) – If no gas supply then not a boiler fault – contact gas supplier. Check condensate pipe is not blocked or frozen. If blocked clear blockage – if not possible to check contact your installer.
3	<i>Boiler is not working for central heating or hot water and the display shows 'L:A' (flashing).</i>	<ul style="list-style-type: none"> Press select (reset) button (C) for greater than 3 seconds, the boiler should then re-light. If fault recurs this indicates an overheat condition. The boiler should be turned off and your installer contacted. Check if ALL radiators have thermostatic radiator valves fitted. If they have contact your installer.
4	Boiler is not working for central heating or hot water and the display shows 'H:A' (flashing).	<ul style="list-style-type: none"> Check pressure gauge on boiler shows a minimum of 1 bar. If not re-pressurise via the filling loop to 1 bar (if unsure contact your installer), turn off the tap on the filling loop and turn the on/off switch (A) off and then back on again to reset the boiler. If unable to do so or if the pressure continues to drop after filling then contact your installer. Check if ALL radiators have thermostatic radiator valves fitted. If they have contact your installer.
5	Boiler will not fire for central heating.	<ul style="list-style-type: none"> If already set to an 'ON' period then check the programmer by setting to permanent ON if boiler then fires – Contact your installer to rectify the programmer. Check room thermostat by turning fully up, If  is not displayed on the user controls then contact your installer.
6	Boiler comes on for domestic hot water without a tap being opened - the display shows  .	<ul style="list-style-type: none"> Check for dripping / dribbling taps or showers – turn fully off. Check for leaks from the domestic hot water pipework and if found contact your installer.
7	Boiler fires occasionally for approx. 2 minutes - the display shows  .	<ul style="list-style-type: none"> This is a normal function of the boiler, during an ON period, to periodically pre heat the plate heat exchanger to optimise delivery time for domestic hot water to taps or showers.
8	Domestic hot water is not to the required temperature	<ul style="list-style-type: none"> Adjust the mixing valve to the required output temperature – see user instructions for temperature settings - In order to access the mixing valve it will be necessary to remove the lower front panel (refer to installation instructions).

PROGRAMMER

ISTOR ITIME PROGRAMMER USER REFERENCE GUIDE



INTRODUCTION

The istory programmer allows the user to set the times at which they want the boiler to run for Central Heating (CH) and Domestic Hot Water (DHW). It is a full, 7 day, programmer allowing setting of 3 ON-OFF periods per day on MON-FRI, SAT-SUN, MON-SUN, or individual days. It also has a built in 12/24 Hr clock and allows adjustment of the set point for CH radiator temperature.

The user interface (UI) consists of 6 buttons and a backlit Liquid Crystal Display (LCD). The buttons are broken down into two function categories. The first is that of changing the operating mode of the boiler or programmer and the second is in the setting of parameters, time, time periods, temperatures, etc.

GMT / BST ADJUSTMENT

The clock can be easily adjusted between GMT and BST by pressing the "UP" (▲) button for 3 seconds.

NOTE. *The time is pre-set before leaving the factory. If on receipt of the boiler the time shown is incorrect by ± 1 hour (due to difference between GMT and BST), simply press the "UP" (▲) button for 3 seconds.*

ADVANCE FUNCTION

A programme start or end can be brought forward by pressing either the heating or DHW buttons.

HOT WATER CYLINDER RE-HEAT

Hot water cylinder re-heat will be disabled during DHW off periods.

BATTERY BACKUP


If there is a power failure to the boiler all programme times are stored and the real time clock is maintained using battery back up.

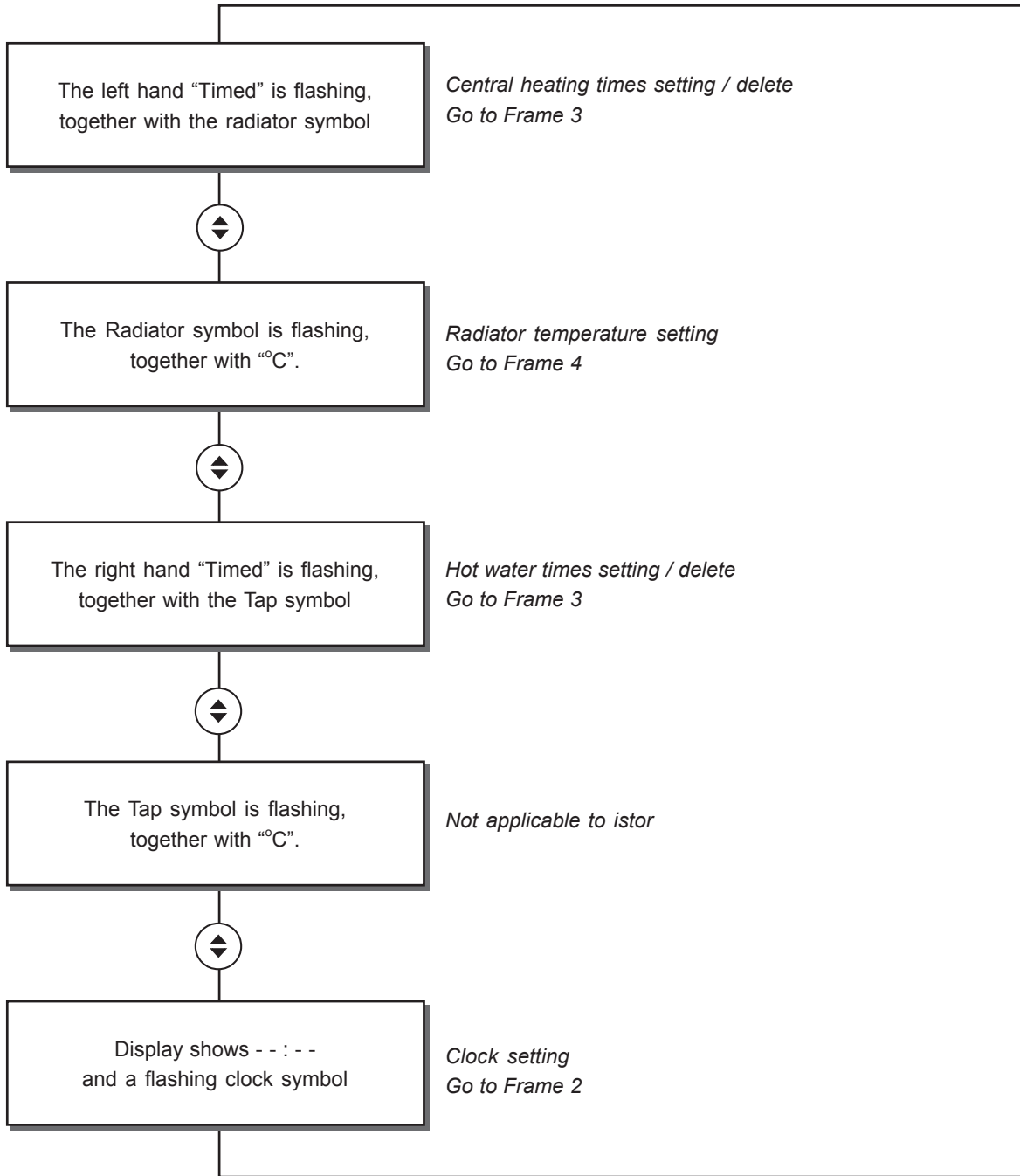
NOTE. *Pages 7 to 17 are the iTime Programmer Instructions.*

SEE PULL OUT SHEET AT REAR OF THIS BOOKLET FOR EASE OF USE

1 PROGRAMMING MODE STRUCTURE

Once the programming mode is entered the structure is as shown:

 are the UP and DOWN buttons



Note. Using the down arrow key will navigate the structure in reverse order.

2 SETTING THE DAY AND TIME

P is the PROG button
S is the SELECT button
◀▶ are the UP and DOWN buttons

DISPLAY SHOWS time / day
and backlight is OFF

P Press 'PROG' button *briefly*

DISPLAY SHOWS time / day
and backlight is ON

P Press 'PROG' button *briefly*

The left hand "Timed" is flashing, together
with the Radiator symbol and the word
"PROG" is showing

◀▶ Press down arrow once or
up arrow four times until. .

Display shows -- : --
and a flashing clock symbol

S

The clock symbol becomes steady and
one of the days is flashing

◀▶

Use Up and Down buttons
to reset to current day

The day symbol becomes steady
and the 12 / 24 hr symbol flashes

S

Use Up and Down buttons
to select 12 or 24hr mode for display

The hours digits flash

◀▶

Use Up and Down buttons
to reset to current hour

The hours digits become steady
and the minutes digits flash

S

Use Up and Down buttons
to reset to current minute

The 'am' or 'pm' symbol flashes
(in 12 hr mode only)

S

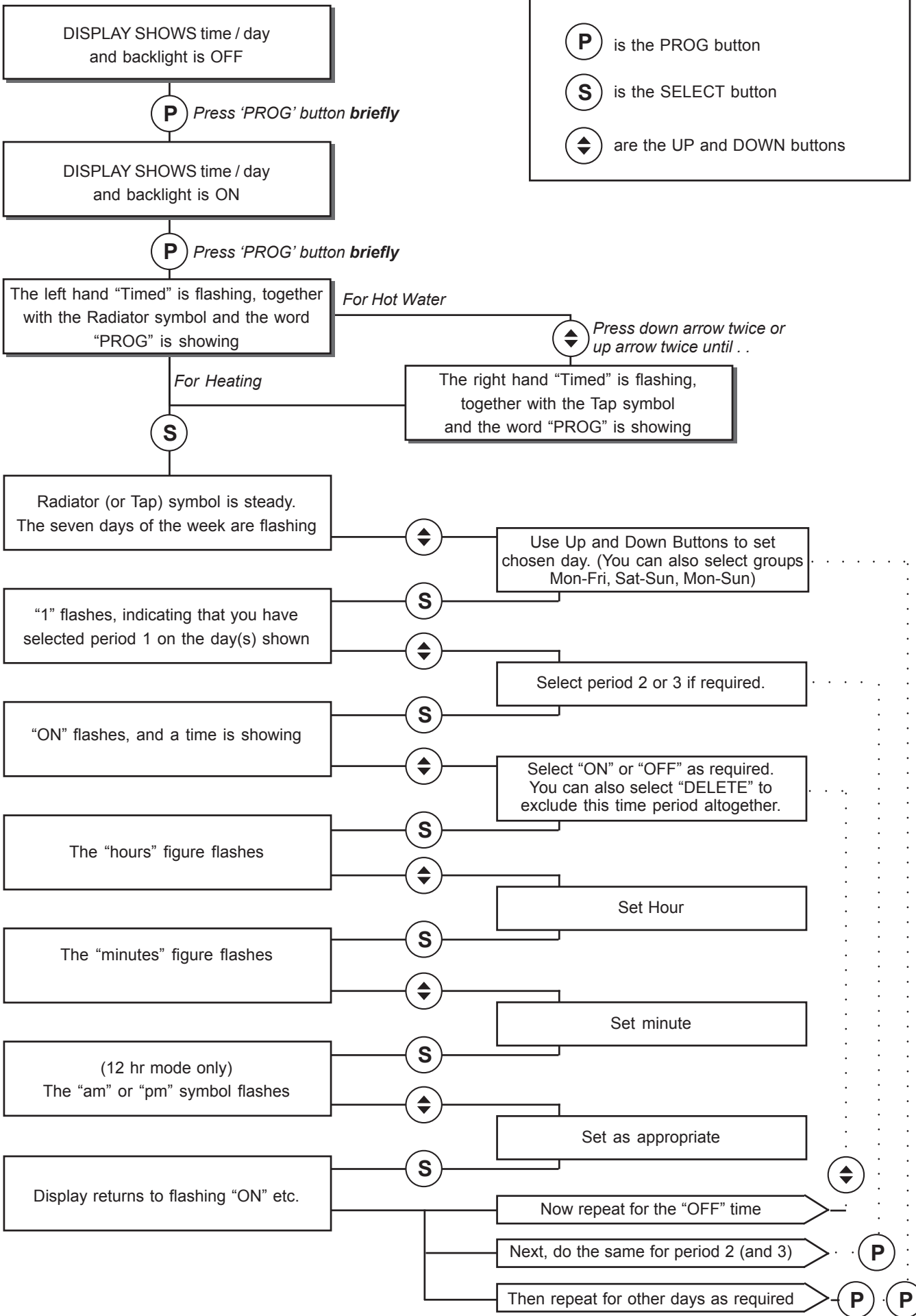
Use Up and Down buttons
to set 'am' or 'pm' as appropriate

The clock now displays the current day
and time in 12 or 24 hr mode

S

ITIME PROGRAMMER

3 PROGRAMMING THE HEATING (OR HOT WATER) PERIODS



4 SETTING THE CH MAXIMUM FLOW TEMPERATURE*

DISPLAY SHOWS time / day
and backlight is OFF

P Press 'PROG' button **briefly**

DISPLAY SHOWS time / day
and backlight is ON

P Press 'PROG' button **briefly**

The left hand "Timed" is flashing, together
with the Radiator symbol and the word
"PROG" is showing

↕ Press down arrow 4 times or
up arrow once until. . . .

The Radiator symbol is flashing
together with "°C"

S

The Radiator symbol is steady.
The temperature figure flashes

↕

Use Up and Down buttons to set value.
Maximum CH flow temperature
can be set from 30 to 82°C

S

Change accepted.
Display reverts to normal

P is the PROG button

S is the SELECT button

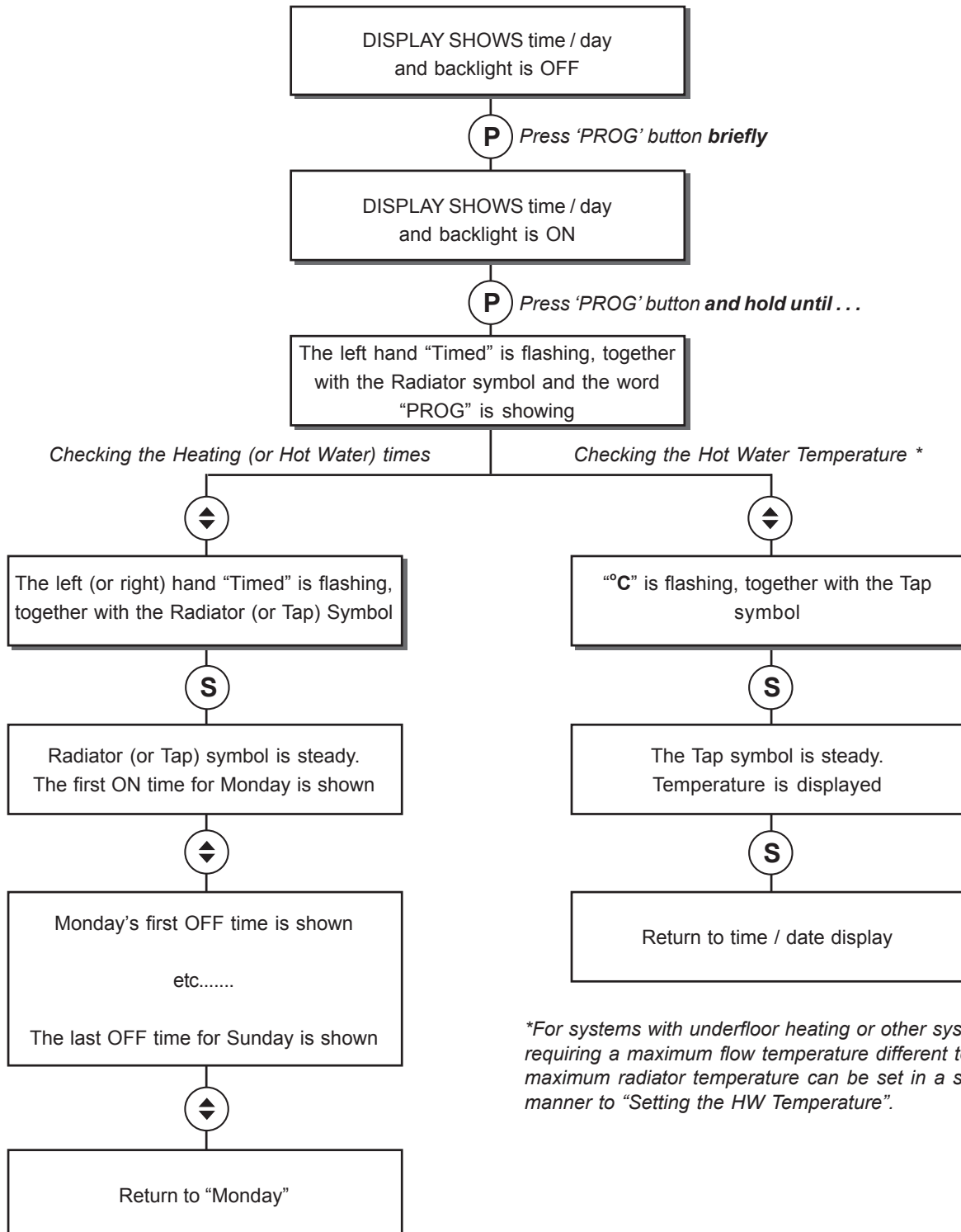
↕ are the UP and DOWN buttons

**For systems with underfloor heating or other systems requiring a maximum flow temperature different to 82°C, the maximum radiator temperature can be set.*

5 QUICK REVIEW OF PROGRAMMED TIMES AND TEMPERATURES

Note.
This section cannot be used to amend the settings, see Frames 3 and 4.

- P** is the PROG button
- S** is the SELECT button
- ◀▶** are the UP and DOWN buttons



**For systems with underfloor heating or other systems requiring a maximum flow temperature different to 82°C, the maximum radiator temperature can be set in a similar manner to "Setting the HW Temperature".*

6 PRESET PROGRAM TIMES AND TEMPERATURES

The programmer comes with preset Central Heating and Hot Water times and temperatures.

These can be amended using the appropriate procedures. The times can be deleted if they are not required (refer to Frame 8).

Central Heating Periods:

MON-FRI

Period 1 ON 06:30
Period 1 OFF 08:30

Period 2 ON 17:00
Period 2 OFF 22:30

Period 3 ON — : —
Period 3 OFF — : —

SAT-SUN

Period 1 ON 07:30
Period 1 OFF 10:00

Period 2 ON 12:00
Period 2 OFF 14:00

Period 3 ON 17:00
Period 3 OFF 22:30

Hot Water Periods:

MON-SUN

Period 1 ON 06:30
Period 1 OFF 00:00

Period 2 ON — : —
Period 2 OFF — : —

Period 3 ON — : —
Period 3 OFF — : —

Radiator Temperature 82 °C

Hot Water Temperature: 60 °C

7 FAULT FINDING

If the display shows a 'spanner' symbol, and the time or temperature indication is replaced by a 2-symbol Fault Code, then the boiler is being prevented from running because of adverse conditions.

Those Codes beginning with 'H' are temporary and will reset when the fault condition has (been) cleared.

Those Codes beginning with 'L' are 'permanent', causing a 'Lockout' situation.

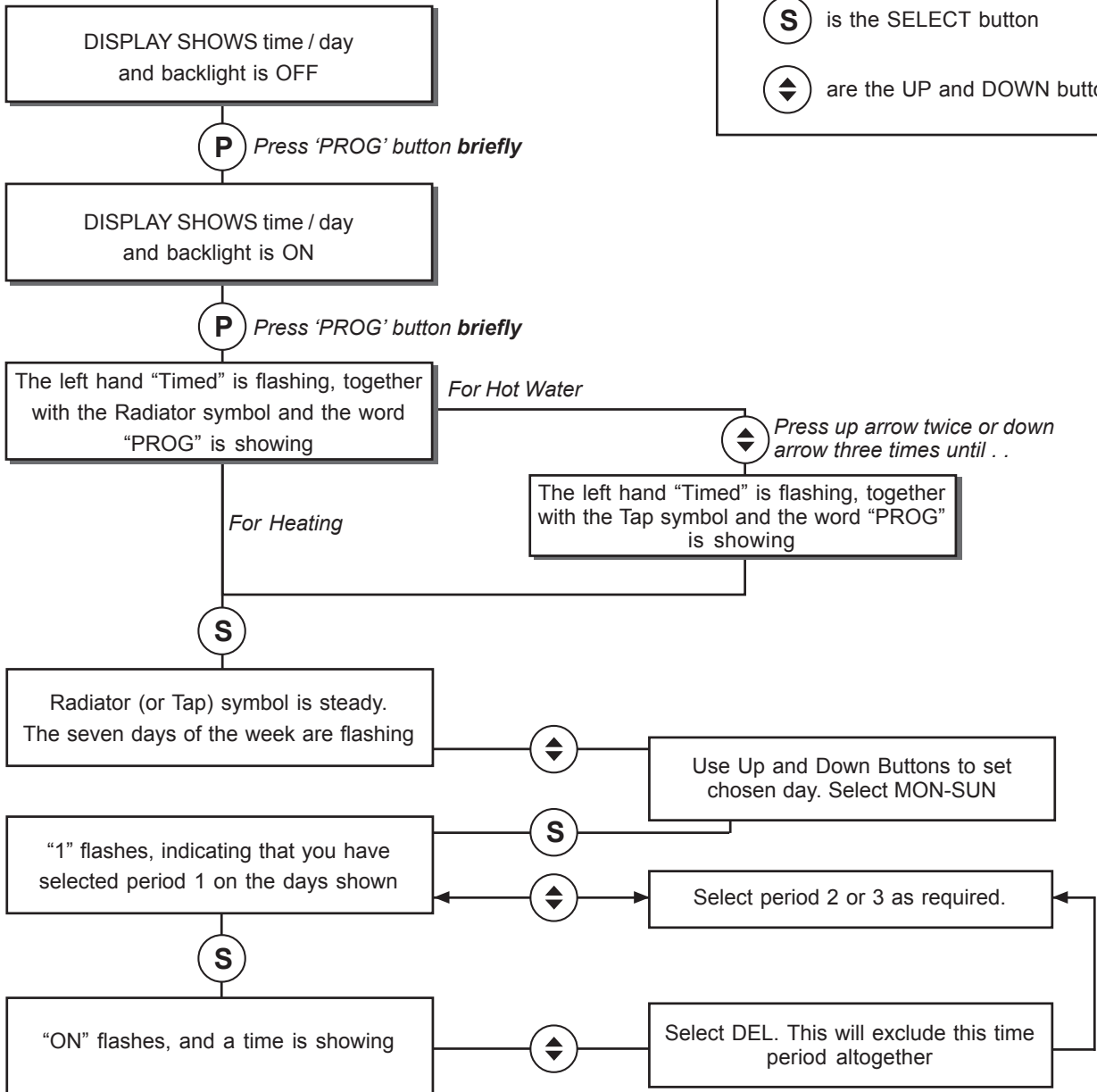
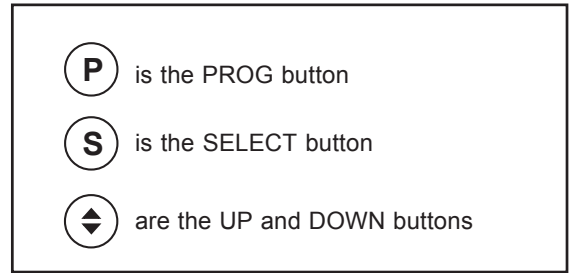
When one of these faults has been cleared, the boiler should be reset by pressing the 'Select' button for greater than 3 seconds.

The Select button is the equivalent of the small Reset button on boilers without programmers.

Further details of the Lockout Codes are in the main boiler instruction book, Fault Finding section.

8 CLEARING THE PRESET TIMES

The programmer comes with preset time periods for Central Heating and Hot Water. These can be individually cleared prior to user programming using the following sequence.





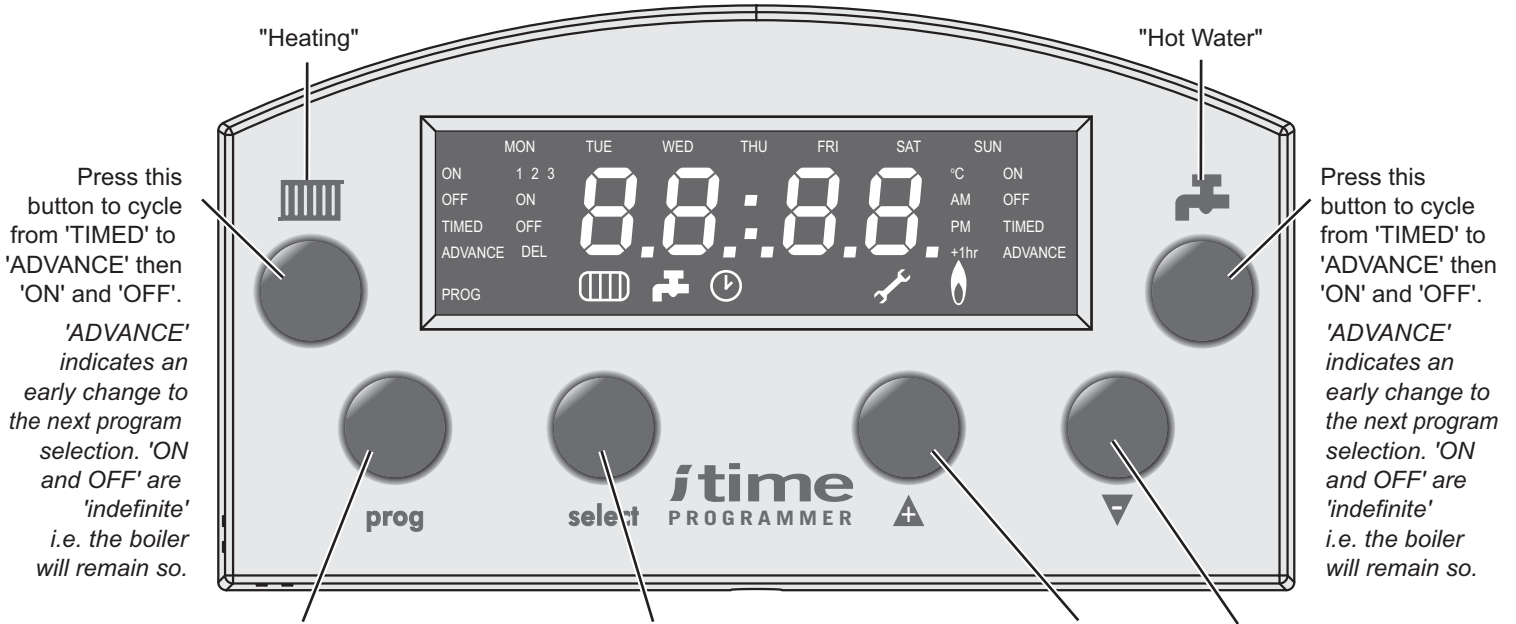
Ideal Consumer Helpline
Tel: 01482 498660
www.idealboilers.com

Ideal Steirad Group pursues a policy of continuing improvement in the design and performance of its products. The right is therefore reserved to vary specification without notice.

Ideal Boilers, P.O. Box 103, National Ave, Kingston Upon Hull, HU5 4JN. Tel. 01482 492251 Fax. 01482 448858. Registration No. London 322 137.



ITIME PROGRAMMER - CONTROLS AND DISPLAY



Press this button to cycle from 'TIMED' to 'ADVANCE' then 'ON' and 'OFF'.

'ADVANCE' indicates an early change to the next program selection. 'ON and OFF' are 'indefinite' i.e. the boiler will remain so.

Press this button to cycle from 'TIMED' to 'ADVANCE' then 'ON' and 'OFF'.

'ADVANCE' indicates an early change to the next program selection. 'ON and OFF' are 'indefinite' i.e. the boiler will remain so.

The 'Prog' button is used to change into Programming mode, in order to check programs and to reset the clock. (See Frame 2 to 9)

The 'Select' button is normally used to make choices within menus. It selects whichever option on the display is flashing.

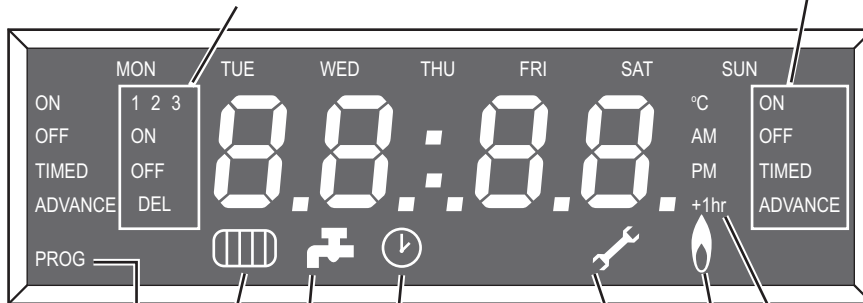
The 'Up' and 'Down' buttons are used to amend values and move around within menus.

NB - The Prog button also functions in program mode as a back key and an abort key (press and hold).

NB - The Select button also functions as a Reset button for fault conditions. (See Frame 7)

NB - The 'Up' button also makes the change to and from Summer-time. For this function, press for 3 seconds.

These symbols relate to the times being programmed 1, 2 and 3 are the daily periods. ON and OFF are the functions. DEL is used to clear a programmed period.



ON, OFF, TIMED, ADVANCE indicate the current selected mode for each channel. In TIMED mode, ON will be shown within a timed ON period. ADVANCE is shown when the channel is moved on to the next programmed event. Once the event has finished ADVANCE will no longer be shown.

'PROG' is shown during program amendment

"Heating demand" also shown during programming

"Hot Water demand" also shown during programming

This symbol is shown when the clock is being set

"Summertime" indicator - To set or reset this, press the 'UP' button and hold for 3 seconds.

A steady 'flame' symbol indicates that the boiler is on. If flashing, the boiler is active, but not firing at the time.

The 'spanner' symbol is shown when an engineer may be needed (See Frame 7)