WHAT IS A PROGRAMMER?

...an Explanation for Householders (as recommended by the Energy Savings Trust)

Programmers allow you to set 'On' and 'Off' time periods. Some models switch the central heating and 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.

Crystal Mark
11385
Clarity
approved by
Plain English Campaign

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ST9400S – User Guide

1 Day Programmer, 2 channel
With Boiler Service Reminder / Shut-down Feature

**This document is to be left with the user
and forms part of a Home Information Pack**

Features

Easy to use slider and buttons combined with 'LoT'™ Technology and an **'OK' button**, allows you to confirm changes and stay in control.

LoT™ Technology provides you with informative 'on-screen' feedback and operational assistance as and when required.

Extra Large LCD (Liquid Crystal Display) with Backlight provides added user friendliness and clearer viewing – even in the dark.

Independent 1-day Heating & Hot Water Programmes let you choose settings built into ST9400S for each day of the week to match your lifestyle, while maximising energy savings, or alter them to your personal settings.

Automatic Summer/Winter Time Change will adjust the clock forward and backward automatically when the clocks change, saving you having to change your ST9400S every time.

Built-in Memory holds your programme indefinitely - even if the mains power fails.

Boiler Service Reminder / Shut-down provides a reminder for when the boiler service is due, and, if necessary, shuts down to ensure your safety.

Energy Efficiency and the Environment

Home energy use is responsible for more than ¼ of the total UK carbon emissions which contribute to climate change. Heating and hot water systems based on boilers account for ⅔ of this figure, so it is important to understand how your controls can help to maximize energy efficiency while maintaining your comfort.

Your Programmer should be used in conjunction with appropriate temperature controls. In order to save energy the following general points should be observed:

1. Ensure your system contains a room thermostat and a hot water thermostat, and that both are set to appropriate temperature levels: typically 20°C for the room temperature and between 55 - 60°C for the hot water temperature.

2. Programme your heating and hot water to be off when you are not in the house. If you are concerned about possible frost damage to any exposed pipe work, it is advisable to fit a frost protection system – your installer can advise you about this.

3. Think about how you use your domestic hot water – if you have a storage system, it is not necessary to have this switched on all the time, even when you are in the house.

4. Consider the heat up times required for your central heating. Every home responds differently when the heating is switched on. Adjust the start time so that you are not cold when you get up in the morning. A shorter heat up time is required for other heating periods.

5. In the evening, when the house is up to temperature, it is often possible to switch off the heating up to an hour before you go to bed, without any noticeable reduction in comfort.

ST9400S Controls Layout

ST9400S

1 Hot Water Operating Mode Indicator	**9** Slider
2 Time Display	**10** Heating Operating Mode Button
3 LoT™ Technology Display	**11** OK/Next Button
4 Programme Time Markers	**12** Clock – and + Buttons
5 Heating Operating Mode Indicator	**13** Hot Water Operating Mode Button
6 Heating Extra Hour Button	**14** Hot Water Override Button
7 Heating Indicator Lamp	**15** Hot Water Indicator Lamp
8 Heating Override Button	**16** Hot Water Extra Hour Button

Keep this document in a Home Information Pack

Contents

Boiler & System Service Log

The space below can be used to provide a record of boiler & system services and the names and contact numbers of the Installer and Service Personnel.

This information is important for a Home Information Pack.

Service/Installation Date	Installation/Service Engineer	Telephone Number / Contact Details

General Description

Your Honeywell ST9400S provides timing control for both your central heating and hot water systems, letting you set **ON** and **OFF** periods to suit your own lifestyle.

The ST9400S does not directly control the temperature but works together with other temperature controls, such as room thermostats and cylinder thermostats, to control your heating and hot water system in your home.

ST9400S has 1-day programming and 2 on/off periods per day. It is simple to use but still allows heating and hot water to be set at different times from each other.

ST9400S also has a Boiler Service Reminder / Shut-down feature, which helps ensure your gas boiler is regularly serviced in compliance with UK Gas Safety Regulations. For more details see pages 16, 17.

The following instructions explain how to programme and use the ST9400S to provide the most home comfort at the least cost.

The way to use a Programmer

Think about the time periods when you are typically in the house and when you are not, and also the times when you use a lot of hot water. These are the times you should use as the basis for the programmes. It will be necessary to allow some heat-up time for the heating system after periods when it has been off – this would typically be 1 - 1½ hours, depending on your house and your preferences.

Other features are commonly available on the *Programmer* to enhance comfort and convenience, for example, **OVERRIDE**, **EXTRA HOUR**, and **MODE** buttons.

A typical use of the **OVERRIDE** feature is when you return home unexpectedly for the rest of the day and the heating is off. Just press the **OVERRIDE** button and the heating will come on until the next programme time, at which point it will follow the normal programme. The advantage here is that you do not have to remember to switch off because the normal time programme does this for you.

A typical use of the **EXTRA HOUR** button would be if you returned to the house for a short period when the heating and hot water were off. Pressing the appropriate **EXTRA HOUR** button gives you 1, 2, or 3 hours of heating, exactly when you need it. Another typical use is when the heating is already on and you want it to stay on a little longer - just press **EXTRA HOUR** and, for that day only, an hour will be added to the end of the time at which heating normally goes off.

The **MODE** buttons allow you to select how you want to operate heating and hot water independently. The most obvious use is to switch heating **OFF** during the summer months, but you may also use this feature if you take a mid-week day off work, you can then set the **MODE** to **ONCE** to keep the system **ON** during the day from the first programmed **ON** time till the last programmed **OFF** time.
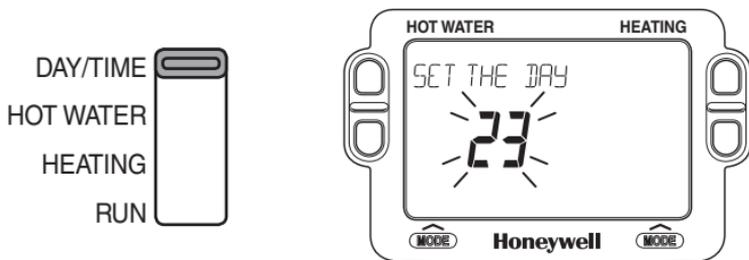
Your ST9400S should have been set up to work correctly when it was installed. However, the following will show you how you can modify your settings to meet your particular lifestyle.

To assist you with programming and everyday use your ST9400S will display text messages at every stage to help you get the most out of your central heating and hot water system. The ST9400S uses LoT™ Technology to constantly update the display to give you feedback about what is required.

Step 1: Setting the Date & Time

Your ST9400S had the date and time set at the factory, and these are normally maintained by a backup battery in the event of power failures. If you wish to change the date or time, or if the LoT™ Display shows the message 'SET DATE + TIME' just follow the instructions below. Otherwise, go to **Step 2**.

a. Move the slider to the **DAY/TIME** position. The message 'SET DATE + TIME' will show briefly on the screen, followed by 'SET THE DAY', and the day of the month will now be flashing to indicate it can be changed.

b. To change the day of the month, press the 🕐 ➕ or ➖ buttons until the correct day is shown. Each press of the button will change the date by one day. As soon as a change has been made, the message 'IS DAY OK?' will be displayed. Once the correct day is reached, press the green ⓞⓚ button to confirm, and move to the next step. If you do not need to make a change, just press the ⓞⓚ button immediately and this will move you to the next step.

c. The month digits will now be flashing and 'SET THE MONTH' will be displayed. To change the month, press the 🕐 ➕ or ➖ buttons until the correct month is shown. The message 'IS MONTH OK?' will be displayed. Press the green ⓞⓚ button to confirm the month is correct, and move to the next step.

d. The year digits will now be flashing and 'SET THE YEAR' will be displayed. To change the year, press the ⏲ ⊕ or ⊖ buttons until the correct year is shown. The message 'IS YEAR OK?' will be displayed. Press the green ⓞⓚ button to confirm the year is correct. If you have made a change, and the date is a valid date, the message 'DATE SAVED' will show, and you can move to the next step. If the date you set was not valid, for example 31 September, the message 'INVALID' will show and you will be returned to the start of the date setting operation.

e. The time will now be flashing and the message 'SET THE TIME' will be displayed. To change the time, press the ⏲ ⊕ or ⊖ buttons until the correct time is shown. Each press of the button will change the time by one minute. Holding the button down for more than a few seconds will change the time slowly at first, then quickly. The message 'IS TIME OK?' will be displayed. Press the green ⓞⓚ button to confirm the time is correct. If you have made a change, the message 'TIME SAVED' will show, followed quickly by 'DATE + TIME COMPLETE'.

f. Move the slider to the **RUN** position, to complete setting the date and time.

Note: if the slider is moved at any time before the date and time have been set correctly, the message 'DATE UNCHANGED' will be displayed briefly, and your changes will not be saved.

Step 2: Running a Built-in Programme

With the date and time correct, your ST9400S Programmer will now be operating to the built-in programmes. These have been designed to provide heating and hot water at typical times throughout the day, but if you want to customise the settings, please see the next section '**PROGRAMMING YOUR ST9400S**' (page 6).

The Built-in Programmes

The built-in programmes give you a starting point that you can personalise to your own requirements. Your Installer should have selected one and ticked the box alongside it. If there is no tick, the product normally leaves the factory with Profile A installed, but it is a simple matter to select one of the other profiles (see **Changing the Installer Parameters**, page 12).

☐ **Built-in Programme (Profile A)**

	ON 1	OFF 1	ON 2	OFF 2	ON 3	OFF 3
Heating	6:30am	8:30am	4:30pm	10:30pm	Not used	Not used
Hot Water	6:30am	8:30am	4:30pm	10:30pm	Not used	Not used

☐ **Built-in Programme (Profile b)**

	ON 1	OFF 1	ON 2	OFF 2	ON 3	OFF 3
Heating	6:30am	9:30am	4:30pm	11:00pm	Not used	Not used
Hot Water	6:30am	9:30am	4:30pm	11:00pm	Not used	Not used

☐ **Built-in Programme (Profile C)**

	ON 1	OFF 1	ON 2	OFF 2	ON 3	OFF 3
Heating	6:30am	7:30am	5:00pm	10:00pm	Not used	Not used
Hot Water	6:30am	7:30am	5:00pm	10:00pm	Not used	Not used

Your Personal Programme

The table below has been left blank for you to record your own personal programme. For ease of use, your ST9400S is supplied as standard with only 2 on/off's enabled. To enable ON/OFF period 3 see **Fine Tuning your ST9400S** (page 12).

	ON 1	OFF 1	ON 2	OFF 2	ON 3	OFF 3
Heating						
Hot Water						

Reviewing the Programme Times

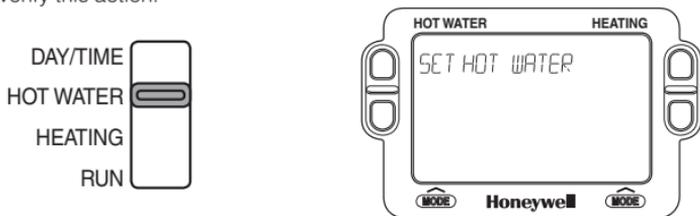To review your hot water programme, move the slider to the **HOT WATER** position.

To review your heating programme, move the slider to the **HEATING** position.

To review the programme times, press the ⓞⓚ button repeatedly. The appropriate **ON** and **OFF** markers will be displayed to show you which time is being reviewed. Any of these times can be adjusted by using the ⊕ ➕ or ➖ buttons, and then confirmed using the ⓞⓚ button. Remember to return the slider to the **RUN** position after reviewing is complete.
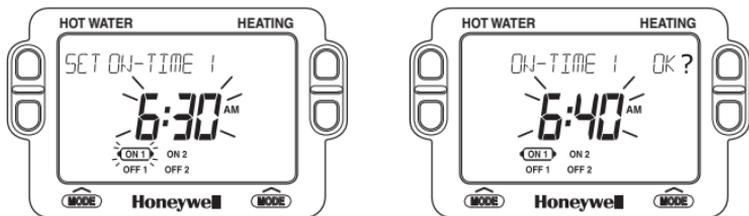
Modifying the Hot Water Programme

The hot water programme has two pairs of **ON/OFF** switching times per day. Each time can be set between 3.00 am and 2.50 am (on the next day) to allow you to programme the hot water to stay on past midnight, if required.

a. Move the slider to the **HOT WATER** position. 'SET HOT WATER' will show briefly to verify this action.

b. 'SET ON-TIME 1' will then be displayed and the time setting for the first **ON 1** time will now be flashing to indicate it can be changed. If you do not wish to change the time, press the green ⓞⓚ button and move to the next step. If you do wish to make a change, use the ⊕ ➕ or ➖ buttons to change the first **ON 1** time. Each press of the button will change the time by 10 minutes. As soon as the time has been changed, the message 'ON-TIME 1 OK?' will be displayed. Press the green ⓞⓚ button to confirm the time is correct and move to the next step. 'SAVED' will be displayed for a moment to confirm that any change has been saved to memory.

7

Note: When pressing the ⊕ button the next **ON** or **OFF** marker may start to flash. This indicates you have tried to set a time equal to one of the next programme times already in the memory. Similarly, when pressing the ⊖ button the previous **ON** or **OFF** marker may start to flash. This indicates you have tried to set a time equal to one of the previous programme times. If this happens the ST9400S simply moves both times together as long as you continue to press the 🕐 ⊕ or ⊖ buttons. Follow the procedure in '**Reviewing the Programme Times**' (page 7) to check and adjust these times as necessary.

c. 'SET OFF-TIME 1' will be displayed and the first **OFF 1** time will now be flashing. If you do not wish to change the time, press the green 🆗 button and move to the next step. Otherwise, use the 🕐 ⊕ or ⊖ buttons to change the time. Press the green 🆗 button to confirm the time is correct and move to the next step. 'SAVED' will be displayed for a moment to confirm that any change has been saved to memory.

d. The remaining **ON** and **OFF** times (ON 2, OFF 2) can be set by using the 🕐 ⊕ or ⊖ buttons to change the time, and the green 🆗 button to confirm the time is correct and move to the next step. If you do not wish to change the time, just press the green 🆗 button to move directly to the next **ON/OFF** time without making any changes.

e. After setting or reviewing the last off time, **OFF 2**, the message 'COMPLETE' will be displayed to indicate the times have been set.

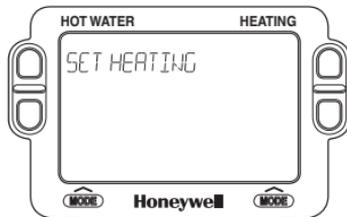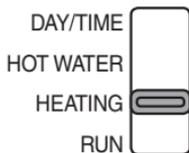## Exiting HOT WATER Programming Mode:

To exit **HOT WATER** programming mode, move the slider to the **RUN** position. This can be done at any time during the programming process, and any changes made and confirmed with the 🆗 button will have been saved.

Note: If the unit is left in **HOT WATER** Programming mode for more than 10 minutes without the slider being moved or any buttons pressed, the message 'MOVE SLIDER' will be displayed. Press a button to finish programming, or move the slider to the **RUN** position.

Modifying the Heating Programme

The heating programme has two pairs of **ON/OFF** switching times per day. Each time can be set between 3.00 am and 2.50 am (on the next day) to allow you to programme the heating to stay on past midnight, if required.

a. Move the slide switch to the **HEATING** position. 'SET HEATING' will show briefly to verify this action.

DAY/TIME
HOT WATER
HEATING
RUN

HOT WATER   HEATING

SET HEATING

MODE   Honeywell   MODE

b. Now follow the same procedure to set the times as described in '**Modifying the Hot Water Programme**' (page 7) steps **b.** to **e.**

Exiting HEATING Programming Mode:

To exit **HEATING** programming mode, move the slider to the **RUN** position. This can be done at any time during the programming process, and any changes made and confirmed with the ⓞⓚ button will have been saved.

Note: If the unit is left in **HEATING** Programming mode for more than 10 minutes without the slider being moved or any buttons pressed, the message 'MOVE SLIDER' will be displayed. Press a button to finish programming, or move the slider to the **RUN** position.

Disabling / Enabling Time Periods (for Heating and/or Hot Water)

To disable any of the time periods **ON 1** to **OFF 1** or **ON 2** to **OFF 2**, simply set the **ON** time and its paired **OFF** time to the same time, and the programme will just ignore them.

To re-enable the time period, simply set the two **ON** and **OFF** times to be different.

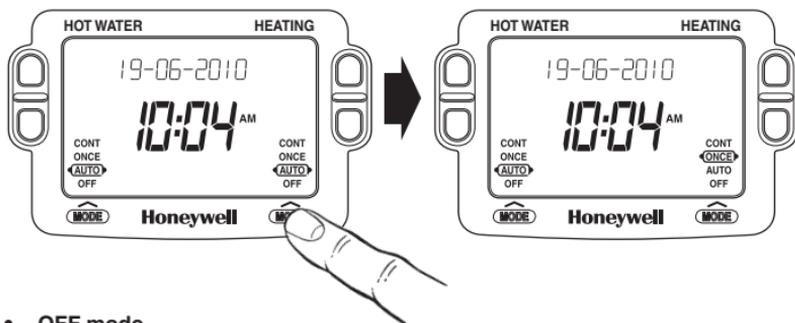## Choosing the Operating Mode (for Heating and/or Hot Water)

The operating mode may only be changed when the slider is set to the **RUN** position.

DAY/TIME
HOT WATER
HEATING
RUN

A green **INDICATOR LAMP** shows when the heating or hot water is switched **ON**.

Two **MODE** buttons are provided to select the Operating Mode and therefore how the heating and hot water are controlled.

Heating has four possible **Operating Modes**; these are **OFF**, **AUTO**, **ONCE**, **CONT**. Pressing the heating **MODE** button scrolls round these modes in sequence, and the display indicates which mode is currently active.

- **OFF mode**
  The heating will remain **OFF**.

- **AUTO (Automatic) mode**
  The heating will be switched **ON** and **OFF** according to the heating programme.

- **ONCE mode**
  The heating will come **ON** at the first programmed **ON** time, and go **OFF** at the last programmed **OFF** time.

- **CONT (Continuous) mode**
  The heating will remain **ON** continuously.

The hot water **MODE** button operates in the same way as described above for the heating **MODE** button.

10

Overriding the Operation Without Changing the Programmes

In **AUTO** and **ONCE** operating modes, the **OVERRIDE** buttons switch the heating or hot water **ON** or **OFF** without altering the programme.

When the indicator lamp is **ON**, pressing the **OVERRIDE** button switches the heating or hot water **OFF** until the next programmed **ON** time.

When the indicator lamp is **OFF**, pressing the **OVERRIDE** button switches the heating or hot water **ON** until the next programmed **OFF** time.

The LoT™ Display will provide you with information about the override.

The Extra Hour Function (for Heating and/or Hot Water)

The **EXTRA HOUR** buttons allow you to switch the heating or hot water **ON** for up to 3 extra hours without altering the programme. Pressing either button once will give one extra hour. The LoT™ Display will display the message '+ 1 HOUR', to confirm the button has been pressed.

When the green **INDICATOR LAMP** is **OFF**, pressing an **EXTRA HOUR** button switches the heating or hot water **ON** for just one hour.

When the green **INDICATOR LAMP** is **ON**, pressing an **EXTRA HOUR** button extends the programmed **ON** period by one hour.

Further presses of the **EXTRA HOUR** buttons will increase the extra hour period by one hour for each button press, up to a maximum of 3 hours. The LoT™ Display will continue to provide information on the extra hour status.

To cancel the extra hours, just keep pressing the **EXTRA HOUR** button until the 'CANCELLED' message appears on the LoT™ Display.

11

Changing from AM/PM Time Display to the 24 Hour Clock

Your ST9400S can operate on the 12 hour AM/PM or 24 hour clock formats. To change the format, ensure the slider is in the **RUN** position then press and hold the ⏰ ➕ and ➖ buttons together for about 2 seconds. Ignore the 'NOT VALID' message that will appear briefly. All the displayed times will be automatically changed to the new format.

Repeating this procedure will change the clock display back to the original format.

Changing the Installer Parameters

The ST9400S has a special Installer Mode where some features can be adjusted to suit your lifestyle or preferences – these are called Installer Parameters, and are listed in the table below, along with a description of the options that are possible.

INSTALLER PARAMETER	Parameter Number	Default Value	Options	Description
24hr or am/pm clock display.	1	12	12, 24	12 = am/pm display, 24 = 24hr display
Configure backlight operation.	2	2	0, 1, 2	0 = off, 1 = on if button pressed, 2 = on continuously
Enable/disable auto time change.	3	1	0, 1	0 = disabled, 1 = enabled
Number of ON/OFFs per day.	5	2	2, 3	2 = 2 on/offs per day, 3 = 3 on/offs per day
Select default time programme.	6	A	A, b, C	A = standard, b = at home, C = economy
Reset all parameters	8	1	0, 1	0 = do not reset 1 = default parameters

To Enter Installer Mode:

a. Ensure the slider is in the **RUN** position, then press and hold (OK) and (−) buttons together for 8 seconds. Ignore the 'NOT VALID' message that is displayed for a few seconds. The message 'SET UP MENU' will show briefly, followed by 'SET INSTALLER OK ?'

b. Press the (OK) button to take you into the Installer Mode Parameter Menu.

c. Parameter 1 is now available to change. This is to allow you to change the clock format from 12 hour AM/PM to 24 hour. At every step, the LoT™ Display will inform you what the parameter means and what option you have selected. The parameter number is shown on the display separated by a colon from the parameter value.

d. You can change the parameter value by pressing the (clock) (+) or (−) buttons. At this point the description in the LoT™ Display will change and the parameter value will flash. If you press (OK) the value will stop flashing and be saved for use.

e. Press (OK) to move to the next parameter available for editing.

f. Keep pressing (OK) to step around the list of parameters, and use (clock) (+) or (−) buttons to change the parameter value.

g. Any parameter changes that have been confirmed with the (OK) button will be saved and used.

To Exit Installer Mode:

h. You can exit Installer Mode at any time by moving the slider to the next position and then back again to **RUN**.

Note: Installer Mode will exit automatically after 10 minutes if the slider is not moved.

How do I set the time only, if the ST9400S clock is not correct?

Your ST9400S contains a very accurate digital clock that is factory pre-set. Should you ever need to change the time, just follow this procedure:

a. Move the slider to the **DAY/TIME** position.

b. Keep pressing the green ⓞⓀ button until the message 'SET THE TIME' is displayed. To change the time, press the 🕐 ⊕ or ⊖ buttons until the correct time is shown. The message 'IS TIME OK?' will be displayed. Press the green ⓞⓀ button to confirm the time is correct. If you have made a change, the message 'TIME SAVED' will show, followed quickly by 'DATE + TIME COMPLETE'.

c. Move the slider to the **RUN** position, to complete changing the time.

What do I do when the clocks go back in October and forward in March?

Your ST9400S is factory-set to adjust the clock automatically at the correct dates, so you should never need to adjust the clock forward or backwards yourself. It is possible to disable this particular feature, as described in the section '**Changing the Installer Parameters**' (page 12). You may also check the section '**Configuration & Service Data**' (page 18) to see how your Installer has configured your product.

What should I do if I get 'lost' while programming the ST9400S?

The LoT™ Display on ST9400S will provide you with help and tips to work through the programming. Should you ever get 'lost', the simplest thing to do is to move the slider to the **RUN** position, and then move it back to the appropriate programming position where you got lost. At this point just follow the instructions again.

What happens if there is a power failure?

In the event of a mains power failure, the ST9400S display will go blank, the indicator lamps will go out, and the control outputs will switch off. The real time will be constantly maintained by means of the built-in battery backup, ready to power back up as if nothing had happened when the mains power is restored. In addition, all programmes and settings are stored in a special memory (called NV memory) which requires no power to maintain information, and so will be retained indefinitely.

Should the correct time and date ever be lost, for whatever reason, the message 'SET DATE + TIME' will be displayed whilst the slider is in the **RUN** position. In this case, simply follow the procedure described under '**Step 1: Setting the Date & Time**' (page 4). It should not be necessary to make any changes to your programmes.

Troubleshooting Guide

This is a quick guide to help you diagnose and cope with possible problems with ST9400S. For further assistance, please contact your Installer.

Symptom	Possible Cause	Remedy
ST9400S has a blank LCD display	No power to the heating system	Check that there is power to the heating system
	Fault in ST9400S	Call Installer
ST9400S indicates that Heating and/or Hot Water are **ON**, but radiators are cold and/ or taps are running with cold water.	Temperature controls are switched off or set too low	Check that the temperature controls in the system are set to appropriate levels
	Boiler or other system controls have malfunctioned	Call Installer
ST9400S shows the message: 'INTERNAL FAULT'	Fault in ST9400S	Call Installer
Every few seconds, the ST9400S screen shows the message: **SERVICE DUE** **28** **DAYS**	ST9400S is counting down the number of days until your next boiler service is due.	Arrange a boiler service before the counter reaches zero. After servicing your boiler, the Service Engineer / Installer will reset the ST9400S to remind you when the next boiler service is due. Each service is normally a maximum of 1 year apart.
Although the heating is still operating, the ST9400S screen keeps flashing the message: **SERVICE DUE**	Your boiler service is **OVERDUE**.	Arrange an immediate boiler service. After servicing your boiler, the Service Engineer / Installer will reset the ST9400S to remind you when the next boiler service is due. Each service is normally a maximum of 1 year apart.
The ST9400S screen shows the message: **SERVICE DUE** **OFF**	Your boiler service is **OVERDUE** and the boiler has been automatically switched off to ensure your safety.	Arrange an immediate boiler service. If set to do so, it may be possible to obtain limited use of the boiler by pressing any **EXTRA HOUR** button. Each button press will allow operation of the boiler for 1 hour at a time, and the screen will display the message **"On 1h"**. After servicing your boiler, the Service Engineer / Installer will reset the ST9400S to remind you when the next boiler service is due. Each service is normally a maximum of 1 year apart.

15

By Law, your gas boiler should be inspected once a year to ensure it is operating safely. Your ST9400S Programmer has a range of features designed to help make sure this service is carried out at the correct time. These features will be programmed by your Installer, maintenance Engineer, or Landlord.

- If it has been set to do so, ST9400S will display a message on the screen to remind you that a boiler service is due.

- If the service is overdue, the Programmer may switch off the heating system, to ensure your safety. If this happens you must arrange an immediate service visit. Contact details should be listed on page 19 of this guide, in the section Boiler & System Service Log.

- A contact telephone number may also have been programmed into the ST9400S. If so, a message will appear on the LoT™ Display indicating the number you should call.
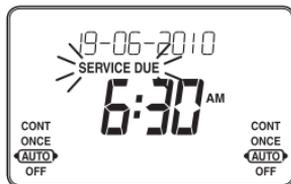
Countdown to Service

Your ST9400S can indicate a countdown for the number of days until your service is due. This message will appear on the screen every few seconds, to give you an opportunity to schedule a service visit.

When Service is Due

When your boiler service is **OVERDUE** the words **"SERVICE DUE"** will continue to flash on your screen, and you should arrange an immediate service visit.

Shut-down

If your ST9400S shows the words **"SERVICE DUE"** and **"OFF"** then your boiler service is **OVERDUE** and the boiler has been automatically switched off to ensure your safety – you should arrange an immediate service visit.

If set to do so, it may be possible to obtain limited use of the boiler by pressing any **EXTRA HOUR** button. Each button press will allow operation of the boiler for 1 hour at a time, and the screen will display the message **"On 1h"** as shown. However, you should still arrange an immediate service visit, as this will allow you to comply with the law and ensure your gas boiler is operating safely.

Configuration Data (to be completed by Installer)

The table below is for the Installer to complete to indicate how your ST9400S has been configured.

Configurable Features	Options	Installer Configured (tick appropriate box)
24hr or am/pm clock display	am/pm display	☐
	24hr display	☐
Display backlight operation	Off	☐
	On if button pressed	☐
	On continuously	☐
Automatic time change	Enabled	☐
	Disabled	☐
Number of ON/OFFs per day	2 on/offs per day	☐
	3 on/offs per day	☐
Default programme	A = standard	☐
	b = at home	☐
	C = economy	☐