

ideal
HEATING

**S15 Logic Max
System 2**



ideal HEATING S15 Logic Max System 2 User Guide

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ideal HEATING S15 Logic Max System 2



Specifications

- Product: Logic Max System2
- Models: S15, S18, S24, S30
- Features: Full sequence automatic spark ignition, fan-assisted combustion
- Function: Provides central heating and hot water with a separate hot water cylinder
- Power Supply: 230 V ~ 50 Hz
- Fusing: 3A

Product Usage Instructions

Introduction

The Logic Max System2 is a system boiler designed for central heating and hot water when a separate hot water cylinder is installed. It features full-sequence automatic spark ignition and fan-assisted combustion.

Safety

It is essential that all work on the appliance is carried out by a Gas Safe Registered engineer in accordance with Gas Safety Regulations. Follow the instructions in the booklet for safe and efficient operation.

Electricity Supply

Ensure the appliance is earthed and connected to a 230 V ~ 50 Hz power supply with a 3A fuse.

FAQ

- **Q: Where can I find spare parts for the Logic Max System2?**

- A: When replacing parts, ensure they conform to safety and performance specifications. Authorized spare parts can be found on the Ideal Heating website.

- **Q: How can I check if my installer is registered?**

- A: Gas Safe Register installers carry an ID card with a registration number. You can verify their credentials by calling Gas Safe Register directly on 0800 4085500.

When replacing any part on this appliance, use only spare parts that you can be assured conform to the safety and performance specifications that we require. Do not use reconditioned or copy parts that have not been clearly authorised by Ideal Heating. For the very latest copy of literature for specification and maintenance practices visit our website idealheating.com where you can download the relevant information in PDF format

WEEE DIRECTIVE 2012/19/EU Waste Electrical and Electronic Equipment Directive

- At the end of the product life, dispose of the packaging and product in a corresponding recycle centre.
- Do not dispose of the unit with the usual domestic refuse.
- Do not burn the product.
- Remove the batteries.
- Dispose of the batteries according to the local statutory requirements and not with the usual domestic refuse.

All Gas Safe Register 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 Heating 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.

INTRODUCTION

The Logic Max System2 is a system boiler, featuring full sequence automatic spark ignition and fan assisted combustion. It is designed to provide central heating and hot water when a separate hot water cylinder is installed. 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 a plastic waste pipe at the base of the boiler. A condensate 'plume' will also be visible at the flue terminal.

Safety

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

It is the law that this appliance installation and any work carried out on the appliance is carried out 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

This appliance must be earthed.

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

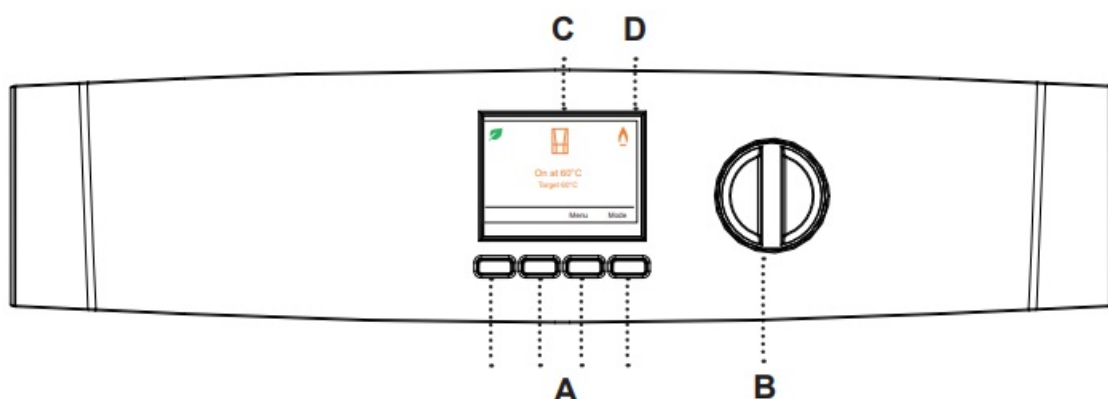
IMPORTANT NOTES

- 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 can be used by children 8 years and above. Also persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, provided they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

CARBON MONOXIDE ALARMS

Carbon monoxide detectors are installed near to the boiler to detect a gas leak. If a leak is detected the alarm will make a very loud noise. If you suspect that there is a fault with the alarm, you should first change the batteries. If you change the batteries and the fault does not clear, you must speak to your landlord or replace the device with another that complies to BS EN 50291-1:2010.

BOILER OPERATION



Legend

- A. Hot Keys
- B. Central Heating Temperature Knob
- C. Boiler Status Display
- D. Burner On indicator

TO START THE BOILER

Start the boiler as follows:


1. Switch on electricity to the boiler and check that all external controls, e.g. programmer, room thermostat and cylinder thermostat are on.
2. If a Boiler symbol is shown on the screen then press Mode until Ready or On is shown underneath the Boiler symbol. If Tap and Radiator symbols are shown press Mode until Ready or On is shown underneath the radiator symbol..
3. If a Boiler symbol is shown on the screen turn the temperature control knob until 80°C is shown. If Tap and Radiator symbols are shown turn the temperature control knob until 30°C is shown..


Once the boiler has lit see the following page about where the Temperature Control knob should be set.

Note. In normal operation the boiler status display (D) will display messages.

Refer to Section
1.8

Boiler frost protection – The boiler will fire if the temperature is below 5°C.

During normal operation, the burner on symbol  (C) will remain illuminated when the burner is lit. If the boiler fails to light after five attempts the following fault messages will be displayed:



Ignition Lockout

1 Check other gas appliances work.

2 Restart boiler.


3 If fault persists, contact installer.

Restart
Menu


To restart the boiler, press Restart. The boiler will repeat the ignition sequence. If the boiler still fails to light consult a Registered Gas Installer.

OPERATION MODES

Winter Conditions – (Central Heating and Domestic Hot Water required) If a Boiler symbol is shown on the display then press Mode until either Ready or On is shown under the Boiler symbol. If Tap & Radiators symbols are

shown then press Mode until Ready or On is shown under the radiator and tap symbol. . The boiler will fire and supply heat to the radiators.

Summer Conditions – (Domestic Hot Water only required) If a Boiler symbol is shown on the display then central heating must be disabled at the timer or room thermostat. If Tap and Radiators symbols are shown on the display

then press Mode until Ready or On is shown under the Tap and Off is shown under the Radiator. .

Boiler Off

If a Boiler symbol is shown on the display then press Mode until Off is shown under the Boiler symbol. If Tap and Radiator symbols are shown on the display then press Mode until Off is shown underneath the Radiator symbol.


CONTROL OF WATER TEMPERATURE

Central Heating

The boiler controls the central heating radiator temperature to a maximum of 80oC, adjustable via the central heating temperature knob (B).


Approximate temperatures for central heating:

Knob Setting	Central Heating Radiator Temperature (approx.)
Minimum	30°C
Maximum	80°C

For economy setting  refer to Efficient Heating System Operation.

EFFICIENT HEATING SYSTEM OPERATION

The boiler is a high efficiency, condensing appliance which will automatically adjust its output to match the demand for heat. Therefore gas consumption is reduced as the heat demand is reduced. The boiler condenses water from the flue gases when operating most efficiently. To operate your boiler efficiently (using less gas) turn

the temperature control knob (B) until the leaf symbol is shown . In winter periods it may be necessary to turn the knob towards the 'MAX' position to meet heating requirements. This will depend on the house and radiators used.

Reducing the room thermostat setting by 1°C can reduce gas consumption by up to 10%.


WEATHER COMPENSATION

When the Weather Compensation option is fitted to the system then the central heating temperature knob (B) becomes a method of controlling room temperature. Turn the knob clockwise to increase room temperature and anti-clockwise to decrease room temperature. Once the desired setting has been achieved, leave the knob in this

position and the system will automatically achieve the desired room temperature for all outside weather conditions.

BOILER FROST PROTECTION

The boiler is fitted with frost protection that operates in all modes, provided the power supply to the boiler is always turned on. If the water in the boiler falls below 5°C, the frost protection will activate and run the boiler to avoid freezing. The process does not guarantee that all other parts of the system will be protected. If a system frost

thermostat has been installed, the boiler must be set in winter mode, with Ready or On  shown under either the Boiler or Radiator symbol, for the system frost protection to run. If no system frost protection is provided and frost is likely during a short absence from home it is recommended to leave the system heating controls or built-in programmer (if fitted) switched on and running at a reduced temperature setting. For longer periods, the entire system should be drained.

BOILER RESTART

To restart the boiler, when directed in the listed fault messages (see section 4) press the “Restart” button. The boiler will repeat its ignition sequence. If the boiler still fails to start consult a Gas Safe Registered Engineer.

MAINS POWER OFF

To remove all power to the boiler the mains power switch must be turned off.

SYSTEM WATER PRESSURE

The system pressure gauge, behind the drop down door, 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 and continue to fall then a water leak may be indicated. In this event re-pressurise the system as shown below. If unable to do so or if the pressure continues to drop a Gas Safe Registered Engineer.

THE BOILER WILL NOT OPERATE IF THE PRESSURE HAS REDUCED TO LESS THAN 0.3 BAR UNDER THIS CONDITION.

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.

FOR ANY QUERIES PLEASE RING THE IDEAL CONSUMER HELPLINE : 01482 498660
BOILER RESTART PROCEDURE – To restart boiler press the restart button

CONDENSATE DRAIN

This appliance is fitted with a siphonic condensate trap system that reduces the risk of the appliance condensate from freezing. However should the condensate pipe to this appliance freeze, please follow these instructions: a. If you do not feel competent to carry out the defrosting instructions below please call your local Gas Safe Registered installer for assistance. b. If you do feel competent to carry out the following instructions please do so with care when handling hot utensils. Do not attempt to thaw pipework above ground level.

If this appliance develops a blockage in its condensate pipe, its condensate will build up to a point where it will make a gurgling noise prior to locking out displaying “Ignition Lockout” on the display. If the appliance is restarted it will make a gurgling noise prior to it locking out displaying “Ignition Lockout” on the display.

To unblock a frozen condensate pipe;

1. Follow the routing of the plastic pipe from its exit point on the appliance, through its route to its termination point. Locate the frozen blockage. It is likely that the pipe is frozen at the most exposed point external to the building or where there is some obstruction to flow. This could be at the open end of the pipe, at a bend or elbow, or where there is a dip in the pipe in which condensate can collect. The location of the blockage should be identified as closely as possible before taking further action.
2. Apply a hot water bottle, microwaveable heat pack or a warm damp cloth to the frozen blockage area. Several applications may have to be made before it fully defrosts. Warm water can also be poured onto the pipe from a watering can or similar. DO NOT use boiling water.
3. Caution when using warm water as this may freeze and cause other localised hazards.
4. Once the blockage is removed and the condensate can flow freely, restart the appliance. (Refer to "To Start the boiler")
5. If the appliance fails to ignite, call your Gas Safe Registered engineer.

Preventative Solutions

During cold weather, set the central heating temperature knob (B) to "MAX", (Remember to return to original setting once cold spell is over). Place the heating on continuous and turn the room thermostat down to 15°C overnight or when unoccupied. (Return to normal after cold spell).

GENERAL INFORMATION

BOILER PUMP

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

MINIMUM CLEARANCES

Clearance of 165 mm (6 1/2") above, 100 mm (4") below, 25 mm (1") at the sides and 450 mm (17 3/4") at the front of the boiler casing must be allowed for servicing.

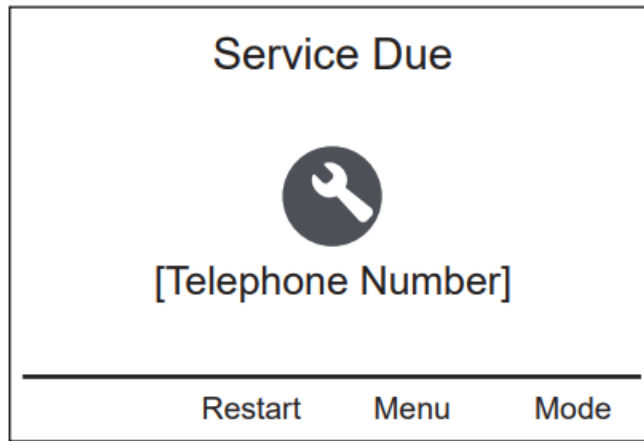
BOTTOM CLEARANCE

Bottom clearance after installation can be reduced to 5 mm. This must be obtained with an easily removable panel, to enable the system pressure gauge to be visible and to provide the 100 mm clearance required for servicing.

SERVICE REQUEST FUNCTION

When the boiler has been installed for more than 1 year the following message will appear on screen:
Press "Restart" to clear this message.

- ESCAPE OF GAS
- Should a gas leak or fault be suspected contact the
- National Gas Emergency Service without delay.
- Telephone 0800 111 999.



Ensure that;

- All naked flames are extinguished
- Do not operate electrical switches
- Open all windows and doors

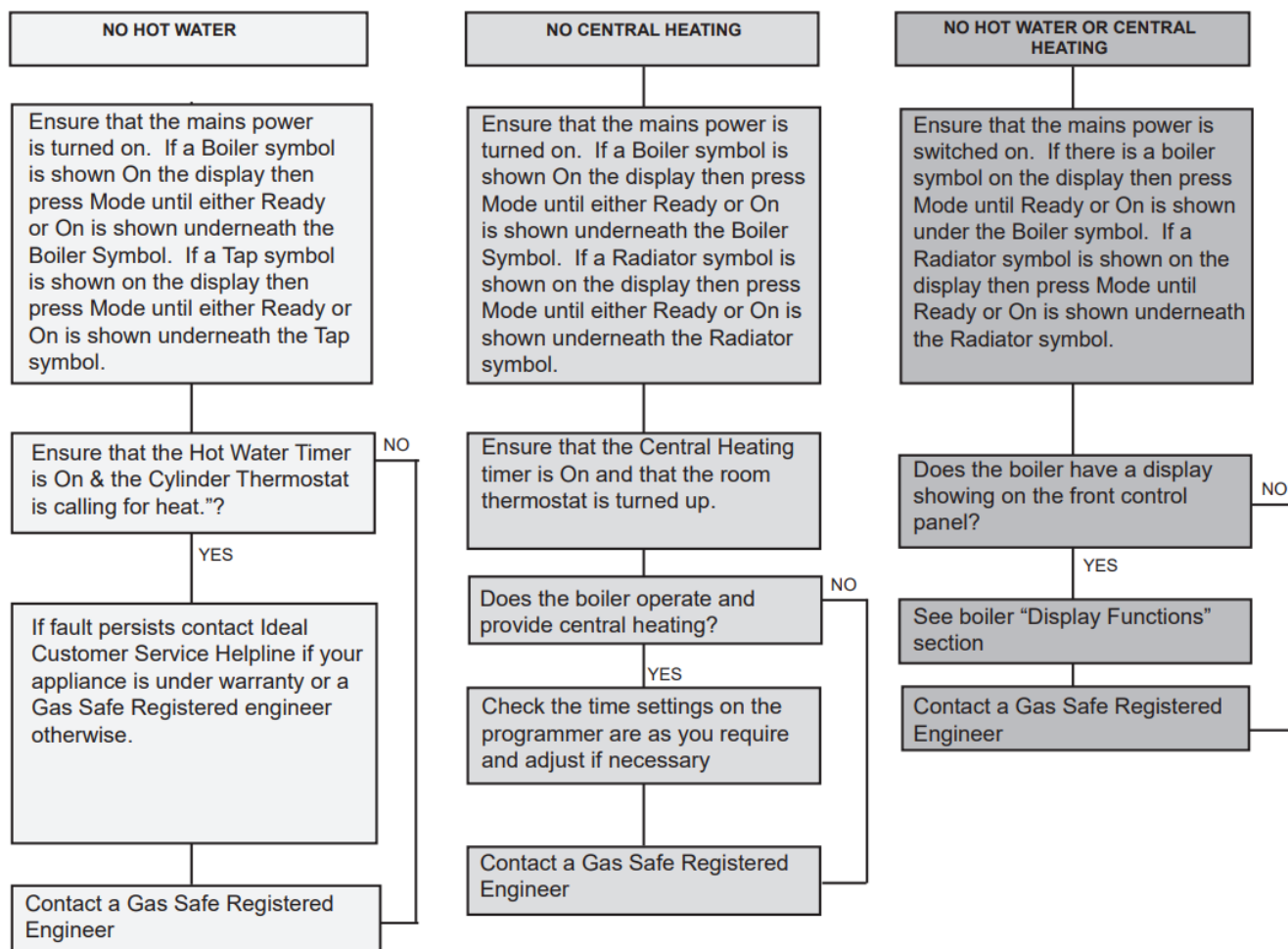
CLEANING

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

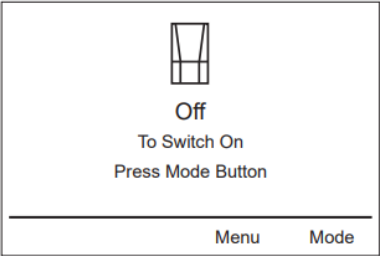
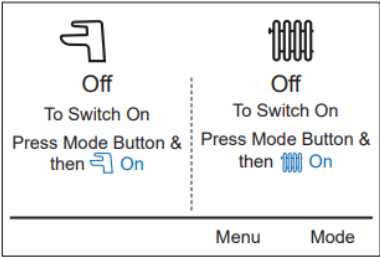
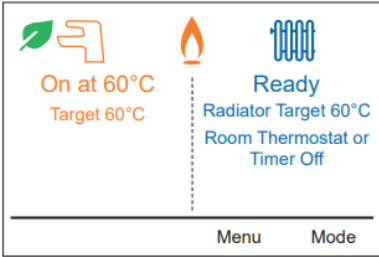
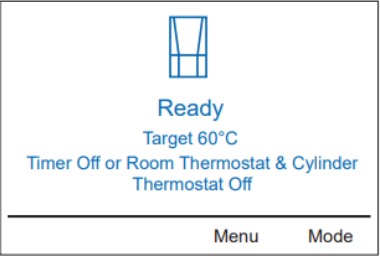
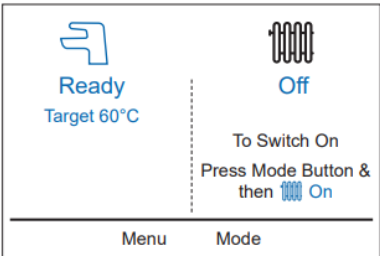
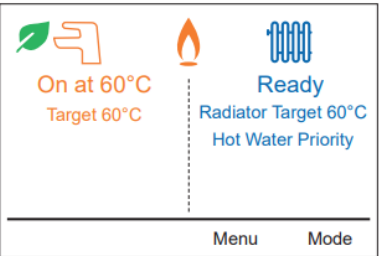
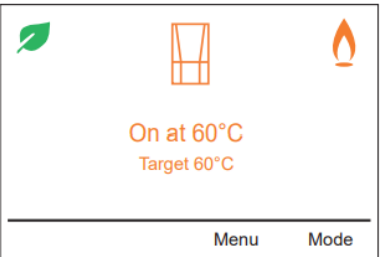
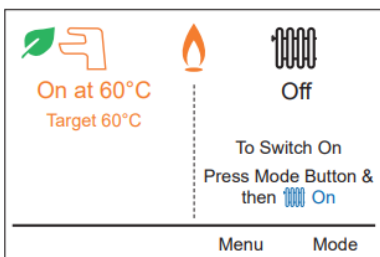
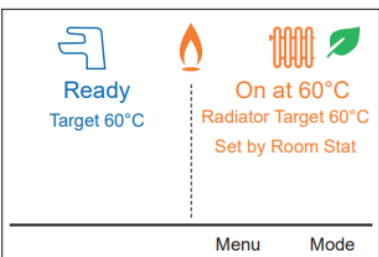
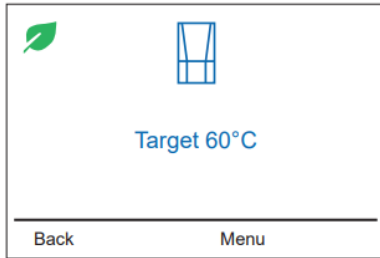
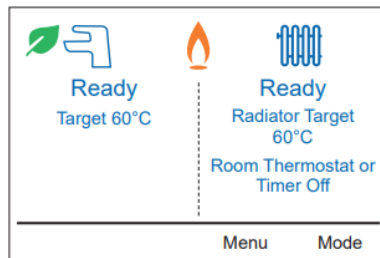
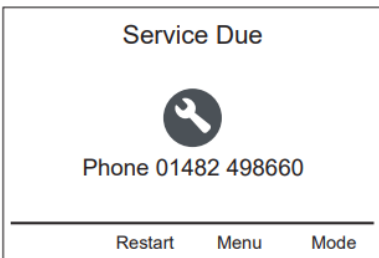
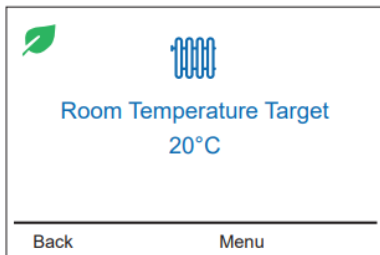
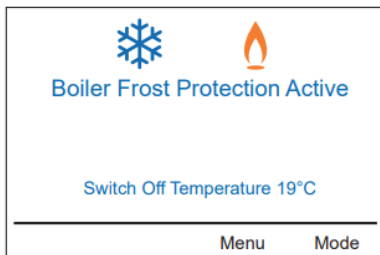
The frequency of servicing will depend upon the installation condition and usage but should be carried out at least annually by a Gas Safe Registered Engineer

TROUBLESHOOTING



DISPLAY FUNCTIONS – NORMAL OPERATION MODE

NORMAL OPERATION SCREENS

<p>How to adjust Boiler Temperatures</p> <p>Off Mode</p> 	<p>Off Mode</p> 	<p>Winter Mode, DHW Demand</p> 
<p>On Mode, No Heat Demand</p> 	<p>Summer Mode, No Heat Demand</p> 	<p>Winter Mode, DHW & CH Demands</p> 
<p>On Mode, With Heat Demand</p> 	<p>Summer Mode, DHW Demand</p> 	<p>Winter Mode, CH Demand</p> 
<p>CH Knob Rotated</p> 	<p>Winter Mode, No Heat Demand</p> 	<p>Service Required</p> 
<p>CH Knob Rotated (outside sensor connected)</p> 	<p>Boiler Frost Protection</p> 	

The display scrolls through a maximum of 3 messages under any operational condition, as shown above

Note. The temperatures shown below are for illustration purposes only. The measured temperatures will be shown on the boiler.

DISPLAY FUNCTIONS – FAULT MESSAGES

<p>Overheat Lockout</p> <ol style="list-style-type: none"> 1 With boiler off & system cold, fill system to 1.0 bar. 2 Bleed radiators, refill system to 1.0 bar. 3 Check radiator valves & boiler valves are open. 4 Restart boiler. 5 If fault persists contact installer. <p>Restart Menu</p>	<p>Outside Sensor Fault</p> <p>Contact Installer</p> <p>Menu</p>	<p>Room Thermostat Fault</p> <p>Check room thermostat batteries</p> <p>Menu</p>	<p>Gas Valve Fault</p> <p>Contact electricity provider</p> <p>Restart Menu</p>
<p>Ignition Lockout</p> <ol style="list-style-type: none"> 1 Check other gas appliances work. 2 Restart boiler. 3 If fault persists, contact installer. <p>Restart Menu</p>	<p>Return Thermistor Fault</p> <p>Contact Installer</p> <p>Restart Menu</p>	<p>Spare PCB Not Set</p> <p>Contact Installer</p> <p>Menu</p>	<p>Blocked Flue/Condensate</p> <ol style="list-style-type: none"> 1 Check if condensate pipe blocked/frozen 2 Check if flue blocked 3 If fault persists, contact installer <p>Restart Menu</p>
<p>Flame Loss</p> <p>Contact Installer</p> <p>Menu</p>	<p>Fan Fault</p> <p>Contact Installer</p> <p>Menu</p>	<p>No Water Flow</p> <ol style="list-style-type: none"> 1 With boiler off & system cold, fill system to 1.0bar. 2 Bleed radiators, refill system to 1.0bar. 3 If fault persists, contact installer. <p>Menu</p>	
<p>Too Many Restarts</p> <p>Contact Installer</p> <p>Menu</p>	<p>PCB Fault</p> <p>Contact Installer</p> <p>Menu</p>	<p>Pump Rotor Blocked</p> <p>Contact Installer</p> <p>Menu</p>	
<p>Flame On Before Gas On</p> <p>Contact Installer</p> <p>Restart Menu</p>	<p>Low Mains Voltage</p> <p>Contact electricity provider</p> <p>Menu</p>	<p>Pump Dry Run</p> <ol style="list-style-type: none"> 1 With boiler off & system cold, fill system to 1.0bar. 2 Bleed radiators, refill system to 1.0bar. 3 If fault persists, contact installer. <p>Menu</p>	
<p>Flow Thermistor Fault</p> <p>Contact Installer</p> <p>Restart Menu</p>	<p>Low Water Pressure</p> <ol style="list-style-type: none"> 1 With boiler off & system cold, fill system to 1.0 bar. 2 Bleed radiators, refill system to 1.0 bar. 3 If fault persists, contact installer. <p>Menu</p>	<p>Pump Fault</p> <p>Contact Installer</p> <p>Menu</p>	

At Ideal Heating we take our environmental impact seriously, therefore when installing any Ideal Heating product please make sure to dispose of any previous appliance in an environmentally conscious manner. Households can contact their local authority to find out how. See <https://www.gov.uk/managing-your-waste-an-overview> for guidance on how to efficiently recycle your business waste.

Technical Training

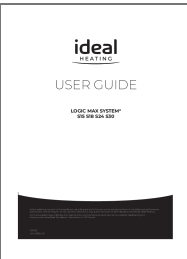
Our Expert Academy offers a range of training options designed and delivered by our experts in heating. For details please visit: expert-academy.co.uk

Ideal Boilers Ltd., 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 is a trademark of Ideal Boilers.

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- idealheating.com

Documents / Resources

	ideal HEATING S15 Logic Max System 2 [pdf] User Guide S15, S18, S24, S30, S15 Logic Max System 2, S15, Logic Max System 2, Max System 2, System 2
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References

- [i Ideal Heating | New Boilers, Heat Pumps & Heating Controls](#)
- [🗑️ Dispose of business or commercial waste: Your responsibilities - GOV.UK](#)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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