

USERS GUIDE

LOGIC Combi ES **ES24, ES30, ES35**

For installation guide see reverse of book

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.

HELP VIDEOS FOR IDEAL HEATING PRODUCTS

Useful videos including how to top up your boiler can be found on the Ideal boilers website

Visit <https://idealheating.com/support/video-help>

FOR ANY QUERIES PLEASE RING THE IDEAL CONSUMER HELPLINE : 01482 498660

NOTE. BOILER RESET PROCEDURE -

To reset boiler, turn mode control knob to reset position and immediately turn knob back to required setting.

Introduction

The **Logic Combi ES** is a wall mounted, room sealed, condensing combination boiler, featuring full sequence automatic spark ignition and fan assisted combustion.

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.

The **Logic Combi ES** is a combination boiler providing both central heating and instantaneous 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.

In IE, the installation must be carried out by a Registered Gas Installer (RGII) and installed in accordance with the current edition of I.S. 813 "Domestic Gas Installations", the current Building Regulations and reference should be made to the current ETCI rules for electrical installation.

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 or in IE a Registered Gas Installer (RGII).
- 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 or in IE a Registered Gas Installer (RGII) 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.

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 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

Minimum Clearances

Clearances of **165mm (6 1/2")** above, **100mm (4")** below, **2.5mm (1/8")** at the sides and **450mm (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 5mm.

This must be obtained with an easily removable panel, to enable the consumer to view the system pressure gauge, and to provide the 100mm clearance required for servicing.

To light the boiler. Refer to Frame 1

If a programmer is fitted refer to separate instructions for the programmer before continuing.

1. CHECK THAT THE ELECTRICITY SUPPLY TO BOILER IS OFF.
2. Set the mains mode knob control (D) to 'Off'.
3. Set the Domestic Hot Water temperature control (B) and Central Heating temperature control (C) to 'max'.
4. Ensure that all hot water taps are turned off.
5. Switch ON electricity to the boiler and check that all external controls, e.g. programmer and room thermostat, are ON.
6. Set the mode knob control to winter (☔ III).

The boiler will commence the ignition sequence, supplying heat the central heating, if required.

Note. In normal operation the boiler status display (E) will show codes:

D Standby - no demand for heat.

C CH being supplied.

d DHW being supplied.

F During normal operation the burner on indicator (F) will remain illuminated when the burner is lit.

Note: If the boiler fails to light after five attempts the fault code **L-2** will be displayed.

RESET PROCEDURE

To reset boiler, turn the mode control knob (D) to reset position and immediately turn knob back to required setting. 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 (RGII).



Operation

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

Ensure the mode knob control (D) is set to winter (☔☔☔)

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

Summer conditions - i.e. DHW only required.

Set the mode knob control to Summer (☔☔).

Set the CH external controls to OFF.

The boiler will fire whenever there is a demand for DHW.

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 temperature is limited by the boiler controls to 64°C maximum at low draw-off rate, adjustable via the DHW temperature control (B).

Approx. flow temperatures for the boiler thermostat settings are:

Knob Setting	Flow Temperature
Minimum	40°C (104°F)
Maximum	64°C (147°F)

Due to system variations and seasonal temperature fluctuations DHW flow rates/temperature rise will vary, requiring adjustment at the draw off tap : the lower the rate the higher the temperature, and vice versa.

Central Heating

The boiler controls the central heating radiator temperature to a maximum of 80°C, adjustable via the CH temperature control (C).

The Logic Combi ES is a high efficiency combination boiler which is most efficient when operating in condensing mode.

The boiler will operate in this mode if the CH temperature control (C) is set to the 'e' position (economy mode). This control should be set to maximum for very cold periods

Weather Compensation

When the Weather Compensation option is fitted to the system then the CH Temperature Control (C) 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.

To shut down the boiler

Set the mode knob control to OFF

To relight the boiler

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

Frost protection

If no system frost protection is provided and frost is likely during a short absence from home, leave the heating controls (if fitted) at a reduced temperature setting. For longer periods, the entire system should be drained.

If the system includes a frost thermostat then, during cold weather, the boiler should be turned OFF at the time switch (if fitted) ONLY. The mains supply should be left switched ON, with the boiler thermostat left in the normal running position.

Boiler Overheat Protection

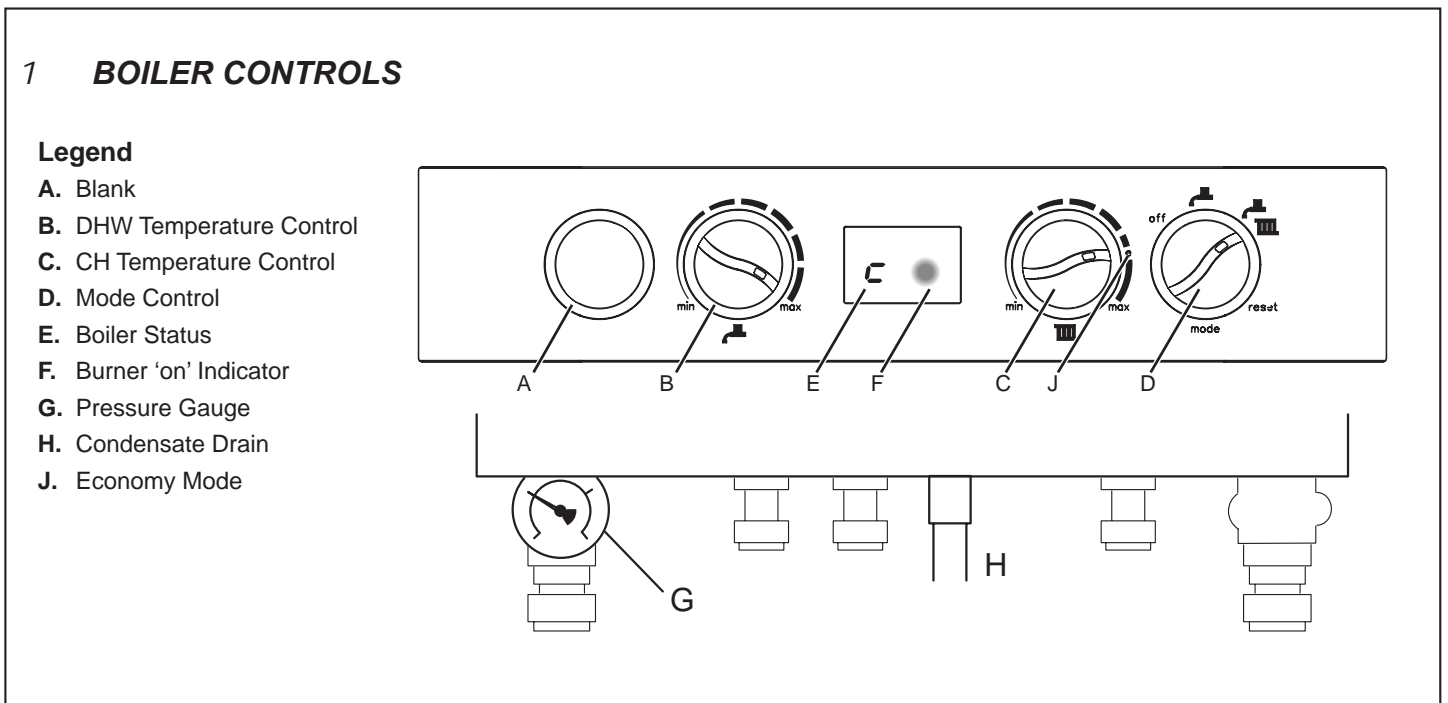
The boiler controls will shut down the boiler in the event of overheating. Should this occur, a fault code L-1 will be displayed.

Refer to fault chart.

Flame Failure

Should this occur a fault code F-2 will be displayed. Refer to fault chart.

continued



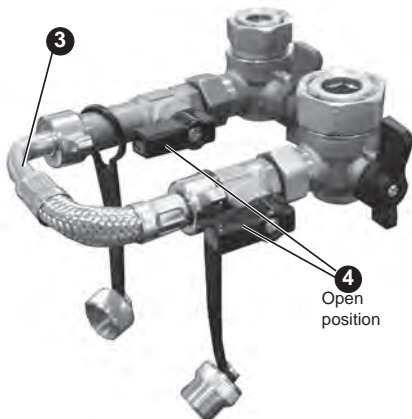
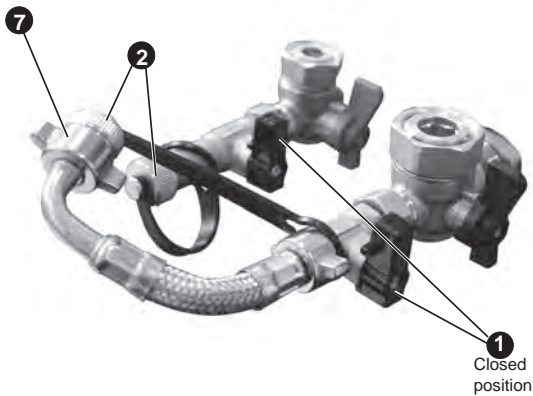
Loss of system water pressure

The gauge (G) 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 may be indicated. In this event conduct the re-pressurising procedure as shown below. If unable to do so or if the pressure continues to drop a Gas Safe Registered Engineer or in IE a Registered Gas Installer (RGII) should be consulted.

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

To re-pressurise:

1. Ensure filling loop isolation valves are closed.
2. Remove the left hand caps.
3. Attach on the filling loop.
4. Turn the filling loop isolation valves to the open position. The system will now fill.
5. Wait for pressure gauge to reach 1 to 1.5 bar.
6. Close the filling loop isolation valves.
7. Disconnect the filling loop at left hand side and angle upwards.
8. Replace caps.



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 an "L2" fault code. If the appliance is reset it will make a gurgling noise prior to it locking out on a failed ignition "L2" code.

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, reset the appliance. (Refer to "To Light the boiler")
5. If the appliance fails to ignite, call your Gas Safe Registered engineer.

Preventative solutions

During cold weather, set the boiler stat to maximum, (Must return to original setting once cold spell is over)

Place the heating on continuous and turn the room stat down to 15°C overnight or when unoccupied. (Return to normal after cold spell).

Escape of gas

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

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 or in IE a Registered Gas Installer (RGII).

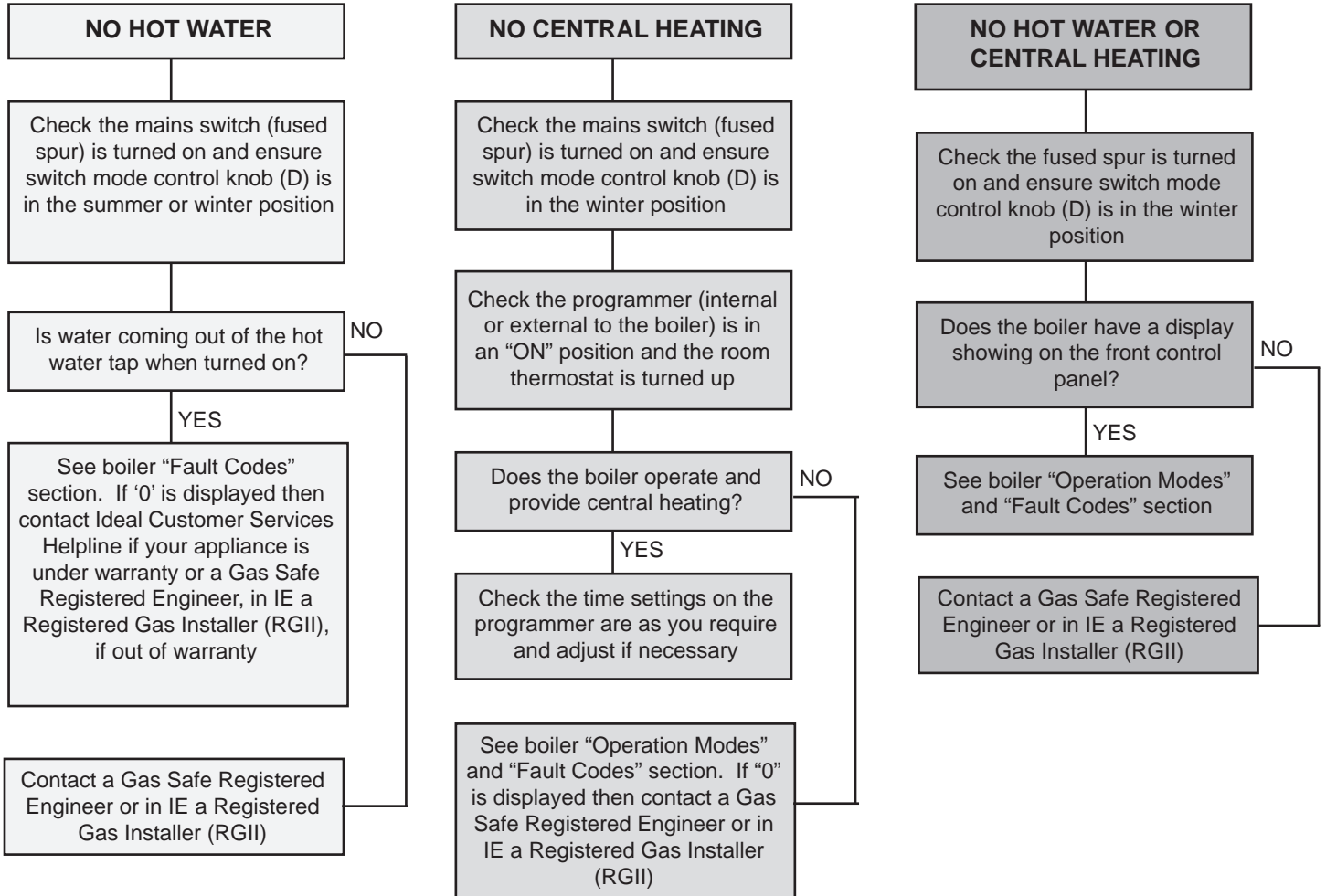
continued

Logic Combi ES - User's

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




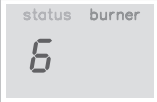
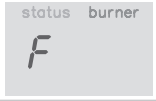





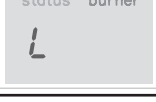






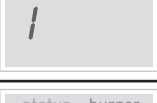











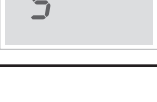
continued

OPERATION MODES

DISPLAY CODE ON BOILER	DESCRIPTION
	The boiler is in standby mode awaiting either a central heating call or hot water demand.
	The boiler has a call for central heating but the appliance has reached the desired temperature set on the boiler.
	The boiler has a call for hot water but the appliance has reached the desired temperature set on the boiler.
	The boiler is operating in central heating mode.
	The boiler is operating in hot water mode.
	The boiler is operating in frost mode.

continued

FAULT CODES

DISPLAY CODE ON BOILER	DESCRIPTION	ACTION
 	Outside Sensor Failure	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
 	Low Mains Voltage	Contact a qualified electrician or your electricity provider.
 	Unconfigured PCB	Unconfigured PCB. Please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
 	5 Boiler Resets in 15 minutes	<ol style="list-style-type: none"> 1. Turn power off and on at the fused spur. 2. If the boiler fails to operate please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
 	False Flame Lockout	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
 	BCC Activation Fault	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
 	BCC Fault	
 	Low Water Pressure	Check system pressure is between 1 & 1.5bar on the pressure gauge. If the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
 	Flow Temperature Overheat or No Water Flow	
   	Flame Loss	<ol style="list-style-type: none"> 1. Check other gas appliances in the house are working to confirm a supply is present in the property. 2. If other appliances do not work or there are no other appliances, check the gas supply is on at the meter and/or pre payment meter has credit. If the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
 	Fan Fault	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
 	Flow Thermistor	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
 	Return Thermistor	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).



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

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

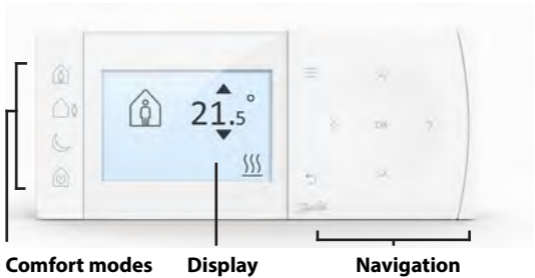




TPOne-B

Electronic Programmable Room Thermostat

User Interface



Comfort Modes

Heating made easy: TPOne Comfort Modes simplify the way you plan your heating day to day. You define your comfort modes in the user schedule and manually override when you need, allowing you to adapt your schedule to the way you live.





The Home, Away and Asleep comfort modes are linked to your defined comfort temperatures. The schedule follows the daily routine you have set or you just choose the comfort mode required and TPOne will recall the settings you have defined.

The TPOne Standby Mode allows you to switch your heating off when not required although the thermostat continues to monitor the room temperature and call for heating should there be a risk of frost damage.





NOTE:

TPOne has been designed with touch sensitive user interface buttons. To avoid accidental setting changes the interface buttons stay in an idle state during which time the first button press needs to be made for 1sec, this will place the TPOne into an active setting state. While active the TPOne will respond immediately to any valid key press. If no key presses are made for 30secs the buttons will go back to an idle state.

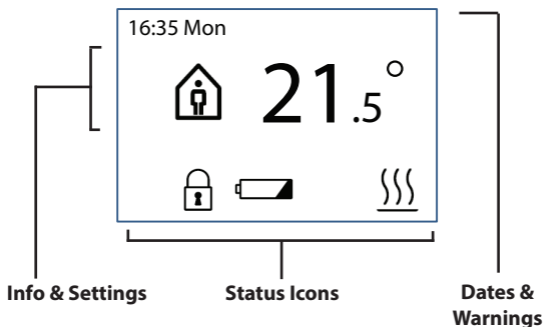
Comfort Modes




	<p>Home Mode selects the home comfort temperature typically when the home is occupied during the day. The required temperatures for Home mode are selectable in the Temperature setting (see User Menu > Temperatures.) A separate Home AM and Home PM temperature can be chosen and these are automatically set according to the time of the day.</p> <p><i>Note: When in Home mode if the home button is pressed again a 1, 2 or 3 hour heating boost is selected and the current home period is extended by the chosen time period. The chosen boost period is displayed under the Home icon on the display.</i></p>
	<p>Away Mode selects the away comfort temperature typically when the home is unoccupied during the day. The required temperature for Away mode is selectable in the Temperature setting (see User Menu > Temperatures).</p>
	<p>Asleep Mode selects the nighttime comfort temperature which is set between the end of the last home period of the day and the beginning of the first home period of the following day. The required temperature for Asleep mode is selectable in the Temperature setting (see User Menu > Temperatures).</p>
	<p>The TPOne can be placed in Standby Mode. While in Standby the TPOne will not control the heating system other than to protect against frost damage (see User Menu > Installer Settings > Frost Protect for information on frost protect). Standby can be cancelled by pressing the Standby button again or by selecting another comfort mode.</p> <p><i>Note: the standby option places the heating control in standby only, if Hot Water is set up this is not affected. To switch Hot Water control off see User Menu > Hot Water > Mode</i></p>

Navigation

	<p>Press Menu to access the intuitive text menu. The common feature User Menu will be displayed first. Additional settings can found in the User Setting option and more advance settings can be found in the Installer Setting option.</p>
	<p>Press OK to select menu options or confirm settings. OK will be shown on the display when it can be used or is required.</p>
	<p>Press ↶ to exit a menu option. Pressing ↶ while in a setting will result in that setting change not be accepted. ↶ will also exit the menu system. ↶ will be shown on the display when it can be used</p>
	<p>The Navigation buttons are used to navigate the TPOne menus and change setting values. The up & down buttons are also used to manually change the required temperature. Navigation arrows will be shown on the display when these buttons can be used.</p>

Display



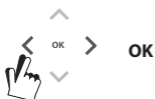
	Button Lock	Indicates that Button Lock has been activated to avoid unintentional setting changes. To activate buttons while button lock is active press the OK button for 5 seconds. The Button Lock setting is found in the Installer Menu.
	Battery Low	The battery low icon indicates when the TPOne batteries should be changed. To avoid loss of heating or damage to your thermostat replace batteries when this icon is displayed.
	Heat Calling	When the current room temperature is below the required room set temperature the TPOne will call for heating from the connected heat source. This is indicated by the Heat Calling icon.

NOTE:

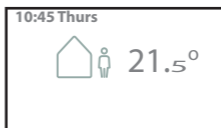
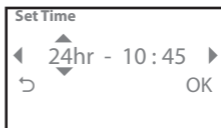
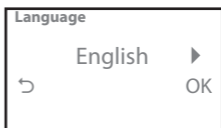
TPOne monitors several conditions and will provide warning or information messages when necessary. Details on these can be found on pages 24 - 26.

Setup Wizard

The setup wizard will run when power is first applied to the TPOne. Once set the further changes can be made in the user and installer setting menus.



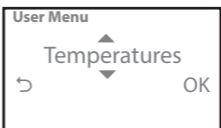
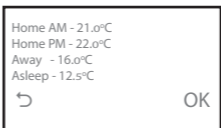
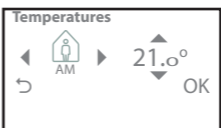
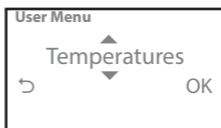
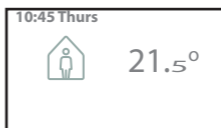
READY



Set Temperatures

Follow this routine to set required Comfort Mode temperatures. Changes can be made for each mode, once all changes have been made press OK and a confirmation screen will display the new settings.

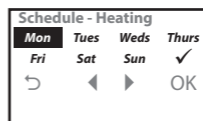
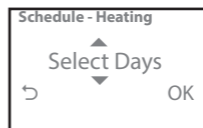
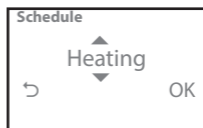
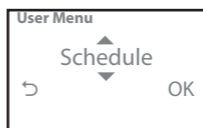
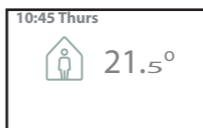
See page 22 for default temperatures



Setup Schedule

Follow this routine to set Heating Schedule. Days can be set individually or grouped and options for weekdays and weekend settings can be selected. All day combinations can then have one, two or three Home Periods selected. TPOne will automatically fill in the gaps with Away and Asleep Periods depending on the time of the day.

See page 22 for default schedule times



Setup Schedule (Continued)

OK OK

Schedule - Heating			
Mon	Tues	Weds	Thurs
Fri	Sat	Sun	✓
↶	◀	▶	OK

^
< OK > OK
v

Select Home Periods		
◀	3	▶
↶		OK

^
< OK > OK < OK >
v

Home Period - 1	
From	To
◀06.00▶	◀08.30▶
↶	OK

^
< OK > OK < OK >
v

Home Period - 2	
From	To
◀12.30▶	◀13.30▶
↶	OK

^
< OK > OK < OK > OK
v

Home Period - 3	
From	To
◀17.30▶	◀22.30▶
↶	OK



Schedule - Heating
Your heating schedule has been saved

^
< OK > ↶
v

User Menu
Schedule
↶ OK

User Menu

Click & Save



Click & Save is an easy access saving function. Switching Click & Save ON will reduce the user set comfort temperatures by 1°C. Switching Click & Save OFF will return TPOne to the user set comfort temperatures.

Default setting: Off

Note: Independent tests have proven that a reduction in home heating temperatures by 1oC can save on average 10% energy.

Heating Mode

Heating Mode will change the TPOne from a thermostat with full user set heating schedule to a manually set temperature only thermostat. In schedule mode the thermostat will follow the user set heating schedule. In manual mode the user set schedule will be ignored, the required comfort mode is then chosen manually.

Default setting: Scheduled

Schedule



User set heating schedule option:

Heating - settings for the daily heating schedule. Choose weekday, weekend or independent daily options and 1,2 or 3 periods per day. Option to reset daily heating schedule to factory defaults.


Summary - graphical overview of the set daily heating or hot water schedule

Default settings: see default heating times later in this guide

User Menu (Continued)

Tempertures	<p>User set comfort temperatures (heating), individual comfort temperatures for Home AM, Home PM, Away and Asleep. Home AM and Home PM temperatures will be set during the home periods chosen in the user set heating schedule, see User Menu > Schedule. Away temperature will be set during the day between the home periods. Asleep temperature will be set during the night between the home periods.</p> <p>Default settings: Home AM - 20°C Home PM - 20°C Away - 15°C Asleep - 15°C</p>
Holiday 	<p>Holiday feature allows you to set in advance your holiday dates. TPOne will reduce the heating to your chosen Holiday temperature on the first day set to save energy and will return to your set schedule and mode temperatures on the return date to ensure the home is comfortable for your return.</p> <p>Enter start and end date of your holiday and the required energy saving home temperature.</p>

User Settings

Set Date	<p>Option to set the current date.</p> <p><i>Note: if batteries are removed or have expired for more than 2mins a startup wizard will prompt for date to be reset.</i></p>
Set Time	<p>Option to set the current time and 12 or 24hr clock setting.</p> <p><i>Note: if batteries are removed or have expired for more than 2mins a startup wizard will prompt for time to be reset.</i></p>
Button Click	<p>Button Click is an audible feedback feature to confirm button press. Button Click can be switched On or Off</p> <p>Default setting: On</p>
Backlight 	<p>When buttons are pressed on the TPOne the display backlight will come on to aid viewing. Where backlight is not required this feature can be switched off. Switching the backlight off will increase battery life.</p> <p>Default setting: On</p>
Temperature Scale	<p>Choose between centigrade °C or fahrenheit °F</p> <p>Default setting: °C</p>
Language	<p>Choose menu language</p> <p>Default: English</p> <p><i>Note: if required a reset menu language feature is available, press and hold OK for 5secs and the option to change language will be given.</i></p>
User Reset	<p>User Reset will return user settings only to the TPOne factory default.</p> <p><i>Note: User Reset will not reset settings in user menu or the date and time.</i></p>
Information	<p>Information on product type, software level and boiler service interval date if set.</p>

Service Interval

If the property is owned by a landlord he may, for gas safety reasons, have instructed the installer to set the service interval timer. The feature is primarily aimed at the rented property sector where the Landlord has a legal responsibility under gas safety regulations* to ensure that the boiler is serviced every year.

- If set, 28 days prior to the service due date, an audible warning will start each day at noon, the service icon will also be displayed. The audible warning will last for 10 seconds and will be repeated every hour until a button is pressed to cancel it. If cancelled the alarm will recommence the following day at noon.

- If the boiler is not serviced before the due date, an audible warning will start each day at noon, the service icon will also be displayed. The audible warning will last for 1 minute and will be repeated every hour until a button is pressed to cancel it. If cancelled the alarm will recommence the following day at noon.

- In addition, all overrides and programming buttons will be disabled and the Heating and Hot Water may operate for a limited amount of time each hour.

















- The installer may cancel or reset the service interval timer as part of the boiler service.

- This is a gas safety feature that can only be accessed by a qualified heating installation engineer.

**Gas Safety Regulations may vary according to region*





Default tables

SCHEDULE DEFAULTS

1	2	3
		
 06:30 - 22:30 (Weekend 07:30 - 22:30)	 06:30 - 08:30 (Weekend 07:30 - 09:30)	 06:30 - 08:30 (Weekend 07:30 - 09:30)
		
	 16:30 - 22:30	 11:30 - 13:30
		
		 16:30 - 22:30
		

Default tables (Continued)

TEMPERTURE DEFAULTS

 AM	20°C
 PM	20°C
	15°C
	15°C

Information

TPOne will show information related to current operation, these messages will be shown at the top of the display. Information messages will be displayed while the operation is active and will automatically reset when operation is completed

Window Open	This will be displayed where a window open switch has been fitted and the window is opened. <i>see page 19</i>
Product Lock	This will be displayed where a product lock switch has been fitted and the switch has been activated. <i>see page 19</i>
Optimised Start	If the TPOne start up method is set to Optimised Start this message will display while this feature is active. <i>see page 18</i>
Delayed Start	If the TPOne start up method is set to Delayed Start this message will display while this feature is active. <i>see page 18</i>

Warnings

TPOne monitors several conditions and will provide warnings when necessary, these messages will be shown at the top of the display. If the condition that has created the warning has been corrected then the message can be cancelled by selecting Clear Warnings in the TPOne menu. Where more than one warning has occurred the most recent will be shown on the display. All warnings can be viewed and cleared in the Clear Warnings menu.

Frost Risk	This will be displayed if the TPOne monitors a temperature of below 5°C. TPOne will call for heat if this occurs but if the heat source is faulty then risk of frost damage may still occur. The heating system should be checked to confirm it is operating correctly
Low Heat	If set mode temperature is not reached within 2 hours then TPOne will warn of Low Heat. The heating system should be checked to confirm it is operating correctly
Service Due	Where the TPOne Service Interval timer has been set this warning will be shown when the timer has expired. Contact the property owner or landlord to arrange the boiler safety maintenance. <i>see page 21</i>
Heat Reduced	Where the TPOne Service Interval timer has been set this warning will show after the timer has expired and will indicate that heating has been reduced for your safety until a boiler service has been completed. Contact the property owner or landlord to arrange the boiler safety maintenance. <i>see page 21</i>
High Floor Temperature	Where a floor limit temperature sensor has been fitted if the floor temperature exceeds the set limit this warning will show. If the floor temperature has reduced to a safe level the TPOne will continue to control heating but the reason for the overheat may still exist. The floor heating system should be checked to ensure overheating does not reoccur.

Warnings (continued)

Sensor Fail	If the TPOne in-built temperature sensor is measuring outside it's operational parameters then it may have failed. If this warning cannot be reset then contact your service provider for advice.
External Sensor Fail	If an external temperature sensor has been fitted and the TPOne is measuring outside it's operational parameters then it may indicate a problem with the external sensor or connecting cable. If this warning cannot be reset then contact your service provider for advice.
Floor Sensor Fail	If a floor temperature sensor has been fitted and the TPOne is measuring outside it's operational parameters then it may indicate a problem with the floor sensor or connecting cable. If this warning cannot be reset then contact your service provider for advice.