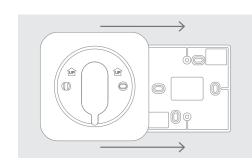
D. INSTALLING THE HALO PRT

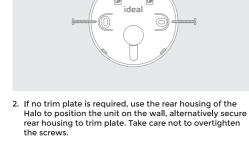
The Halo can be either wall mounted or desk mounted.

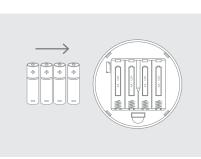
WALL MOUNTING THE HALO

If there are any concerns regarding signal strength and location of the wall mounted PRT it is advisable to pair the control and check the signal strength before fixing to the wall.



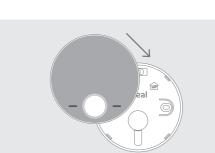
1. The Halo can be installed with or without the provided





of the Halo. Pay close attention that the orientation of the batteries is as indicated in the housing.

COMMISSIONING CHECKLIST



perpendicular to the rear housing and clip into place.

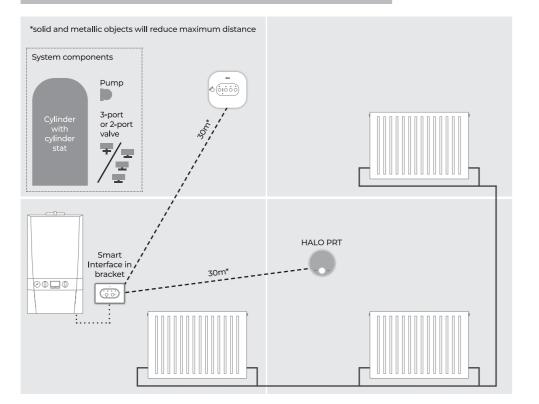
Boiler LED on Smart Interface OFF

When the Halo is set up use this commissioning checklist to check and complete the install.

C. SYSTEM OVERVIEW

This is a simplified diagram of how the Halo units, Smart Wiring Centre and Smart Interface communicate. Some wiring and pipework has been omitted for clarity.

TOP TIP: For a robust signal between units, where possible, ensure that the line of communication between the Smart Interface and other units is not through any stone or metallic object.



B. LOCATION GUIDELINES

SI Smart Interface

Confirmed

---- Pipework

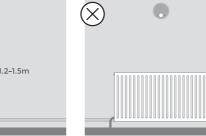
The Halo Heat & System uses wireless Zigbee communication from the Smart Interface to the Smart Wiring Centre and Halo PRT up to a maximum distance of 30 meters. Occasionally house constructions and materials can reduce this communication range and it is advisable, where possible, to try and avoid directing communications through metal frames or solid concrete walls.

If the distance between the Halo PRT and Smart Interface or the Smart Wiring Centre and Smart Interface is greater than 30 meters or the install location is challenging, consider using the Zigbee Booster (UIN 221132, further details available at idealheating.com) The Halo control system

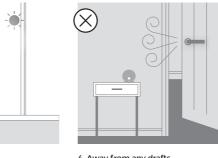
connects to the home Wi-Fi 3. Not in direct sunlight network through a module in the Smart Interface. The home Wi-Fi router should be positioned no more than 30 meters from the Smart Interface. Where possible avoid directing communications through metal frames or solid concrete walls.



5. Not fitted behind curtains



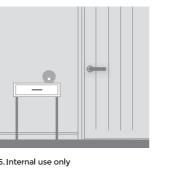
1. Mounted 1.2-1.5m above the floor 2. Not above a radiator/heat source



4. Away from any drafts



6. Internal use only



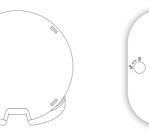
A. KIT CONTENTS



1. Halo Combi PRT display unit

4. Desk stand

7. Smart Interface bracket



5. Smart Wiring Centre



8. Install/user guides, wiring diagrams and zone valve labels



PRT rear housing



3. Trim plate

6. Smart Interface

9. 4 AA Batteries Şıππππππ> Şıππππππ

Power Staler Cornection Zigitee



10. Screws & Rawlplugs™

HALO HEAT & SYSTEM WI-FI

UIN: 222143

Internet connected wireless single zone Heat & System Programmable Room Thermostat (PRT).

Max System S IE Keston System, Vogue System, Vogue GEN2 System, Vogue Max System, Vogue Max System IE.

be found at idealheating.com

The Ideal Halo Heat & System Wi-Fi is a wireless PRT that is paired with the Halo Smart Interface installed alongside the boiler. The Smart Interface is fitted into the Smart Interface Bracket and is wired directly to the boiler and communicates to the boiler via OpenTherm. A Smart Wiring Centre is provided to control central heating components (zone valves, cylinder thermostat, circulating pump). The Halo unit is powered by 4 AA batteries. Communication from the Smart Interface to the PRT is through Zigbee, a local RF protocol. Communication between the Smart Interface and Smart Wiring Centre is also via Zigbee removing the need to wire the Smart Wiring Centre directly to the boiler.

The Smart Interface is Wi-Fi enabled and can be linked to the home Wi-Fi network to allow app-contr olled heating through the Halo app.

Compatible with the following boilers: Logic Heat
The Halo Heat & System, including the Smart H, Logic Heat H IE, Logic System S, Logic System S Wiring Centre and Smart Interface bracket, must IE, Logic+ Heat H, Logic+ System S, Logic Max Heat be installed by a competent person with the H, Logic Max Heat H IE, Logic Max System S, Logic appropriate safety qualifications. Please read the instructions carefully. Failure to follow these instructions can damage the product or cause a hazardous condition.

To install Halo with older boilers further details can
These instructions are applicable to the Ideal boiler models stated and must not be used with any other make or model of boiler. This product must be installed to all applicable standards. Always isolate the mains supply before installing or working on any components that require a 230V ac supply.

GETTING STARTED

The Ideal Halo app is available to download from the Apple app store and on Google Play. To save time the householder may want to download the app and set up the account whilst the thermostat is being insta**ll**ed.





COMMISSIONING CHECKLIST (CONT.)

nen the halo is set up use this commission	ing checklist to check and complete the	iiistaii.	.ali.		Confirmed	
scription		Confirmed	Description			Hot Wate
se the "Identify" function to confirm successful	Zigbee LED on Smart Interface flashes green		Check the Smart Interface indication is correct.	Power LED green Zigbee LED green		,
iiring has taken place. Short press on the Pair itton on the Smart Interface. Press Pair button	Halo home screen flashes to indicate successful pairing	_		Connectivity LED green		
gain to exit "Identify" function.	Zigbee LED on Smart Wiring Centre flashes green		Check the Smart Wiring Centre indication is correct.	Power LED green Pair LED green		
alo is positioned in the homeowners chosen locatio	n if desk mounted.					
neck RSSI (Received Signal Strength Indication) of e Zigbee wireless connection via support page on e PRT (access via the menu).	Target RSSI between 0 and -65 and text green		Full battery level indication on Halo home screen.			
neck RSSI (Received Signal Strength Indication) of the i-Fi connection via the support information in the	Target RSSI between 0 and -65 and text green		Zigbee network icon is present on the Halo home screen.			
alo app (Wi-Fi only).	-		Cloud network icon is present on Halo home screen.	ıtı		
n the Halo set the mode to AUTO then increase	Flame icon ON		*Halo Combi Wi-Fi only	<u> </u>		
e temperature to 30°C (repeat using Halo app if oplicable). ote: Boiler will (turn on) once zone valve is in fully	Heating zone on Smart Wiring Centre OFF		Time and data served Nata on Hale Wi Fi time and data taken from the class			
	Boiler ON		Time and date correct. Note: on Halo Wi-Fi time and date taken from the cloud.			
pen position	Boiler LED on Smart Interface ON (Green)					
n the Halo set the heating mode to AUTO then ecrease the temperature to 5°C (repeat using alo app).	Flame OFF		Zone valves labelled using provided labels.			
	Heating zone on Smart Wiring Centre OFF		Installer contact details inputted if required.			<u> </u>
	Boiler OFF					
	Boiler LED on Smart Interface OFF					
n the Halo set the hot water mode to ON (repeat	Hot water ON (icon turns orange)		Suitable schedule has been entered for the user. *remember to set both heating and hot water back to users desired mode			
ing Halo app).	Hot water zone on Smart Wiring Centre ON				 	
ote: Boiler will (turn on) once zone valve is in fully oen position	Boiler ON		General overview of operation provided to user - refer to user guide.			
	Boiler LED on Smart Interface ON (Green)				<u> </u>	
n the Halo set the hot water mode to OFF (repeat ing Halo app).	Hot water OFF (icon turns white)	· · · · · · · · · · · · · · · · · · ·	Any advanced settings changes have been recorded.			
	Hot water zone on Smart Wiring Centre OFF					
	Boiler OFF		Downston to locus this guide with the householder			
	D 11 15D C 11 1 C 055		Remember to leave this guide with the householder.			

TROUBLESHOOTING

ROUBLESHOOTIN	IG		
No power LED on Smart Interface	Check Smart Interface is wired to the fuse spur. Check fuse spur is on.		
Halo screen is flashing continuously	The Smart Interface is in 'Identify' mode press the Pair button to cancel this mode.		
Boiler fails to fire when ncreasing target emperature on the Halo	Check the target temperature is above current temperature. Check Smart Interface power LED is green. Check Smart Interface is wired securely to the boiler.		
Halo screen shows ailed to pair	Check Smart Interface is in paring mode (Zigbee LED flashing red). Check distance between Smart Interface and Halo (see section B). Reset Smart Interface by inserting a paperclip or pen tip into reset button. Start pairing mode again on the Smart Interface and press retry on the Halo. If the situation persists then consider using Zigbee Booster (available separately) or mounting the Smart Interface closer to the PRT.		
Halo screen shows Replace Halo	If you have no other Halo thermostats connected to the Smart Interface or are not replacing an existing Halo then press accept.		
n the support page the Zigbee RSSI is lower than -65	Consider moving the Halo closer to the Smart Interface. If the situation persists then consider using Zigbee Booster (available separately) or mounting the Smart Interface closer to the PRT.		
Smart Interface will not connect to home Wi-Fi	Check Smart Interface is in Access Point (AP) mode (refer to setup sequence in app). Check Wi-Fi router configuration, check Wi-Fi security is set to WPA/WPA2. Check range <30M between Smart Interface and Wi-Fi router. If the situation persists then consider using a Wi-Fi Booster or mounting the Smart Interface closer to the Wi-Fi router.		
Deleting Halo from the Zigbee Network	On the Halo press the dial and the right hand key together for 15 seconds, this will delete the Halo from the Zigbee network and factory reset the device.		
Deleting Smart Wiring Centre from the Zigbee Network	On the Smart Wiring Centre press and hold pair button, the Pair LED on the Smart Wiring Centre will flash red then orange to confirm the device has been deleted from the network.		
Deleting Zigbee Network	To delete all devices from the Zigbee network, press and hold the Pair button on the Smart Interface. The Zigbee LED on the Smart Interface will flash red then orange to confirm the devices have been deleted from the network.		
-actory reset of the Smart nterface	Press and hold the Pair button and the Override button for 20 seconds. The Smart Interface will delete all Zigbee devices from the network, this will take approximately 20 seconds and detach from the Wi-Fi network if the control is a connected control. On disconnection, the Smart Interface will automatically begin the setup process as per section H.2b. of the installation guide.		





Hereby, Ideal Boilers Ltd declares that this device (model 222143) is in compliance with: Directive 2014/53/EU.

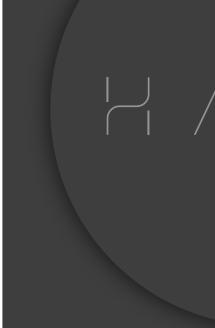
The full text of the EU declaration of conformity is available at the following internet address idealheating.com UIN: 227167 A01



RF frequency: 2405 - 2480MHz Max. RF output power: 10dBm

Ideal Heating is a trading name of Ideal Boilers and associated Group Companie

National Avenue Hull, HU5 4JB T: 01482 498660 E: enquiries@idealheating.com

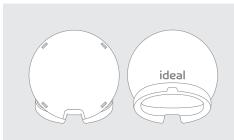


idealheating.com | 🛩 🖪 🎯 🕨 🛅

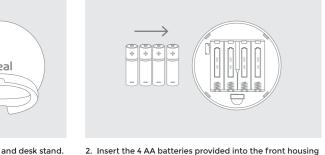
welcome to our ideology

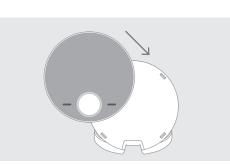


DESK MOUNTING THE HALO



1. The Halo has an integrated rear housing and desk stand.





3. Clip the combined rear housing and desk stand

E. INSTALLING THE SMART WIRING CENTRE

The Smart Wiring Centre controls the operation of the zone valves for the central heating system. The Smart Wiring Centre communicates wirelessly to the Smart Interface via the Zigbee RF protocol. The Smart Wiring Centre must be mounted to a fixed surface before installation.

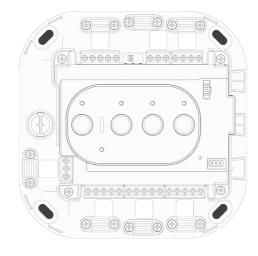
Using a suitable screwdriver turn the locking key one quarter turn anticlockwise to the [UNLOCK] position. Remove the front panel by lifting the left hand edge first. Assemble in reverse order. Always remember to lock the front panel to the Smart Wiring Centre.



Wall mounting the Smart Wiring Centre

Please refer to the location guidelines before fixing the Smart Wiring Centre to the wall.

Using the 4 fixing locations on the Smart Wiring Centre secure to the Wall with adequate fixings for the wall type



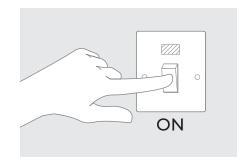
Power Boller Connectivity Zigitee

until the Zigbee LED flashes red.

Do not remove the cover unless you are qualified to do so.

H. PAIRING OF THE SMART INTERFACE TO THE SMART WIRING CENTRE

To pair the Smart Wiring Centre to the Halo Smart Interface follow the steps below.

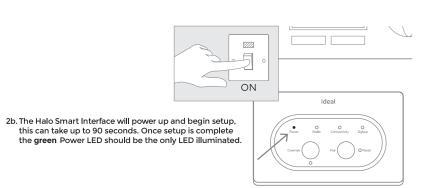


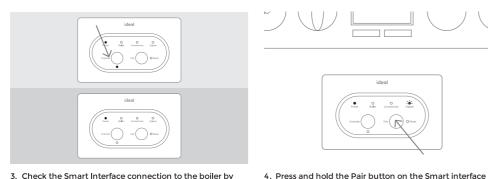
1. Turn the power back on to the boiler and



the batteries is as indicated in the housing.

pairing LED flashing red, this mode will be active for 10 minutes. If further time is required after 10 minutes hold the pair button until the pair light flashes red.





pressing the override button. The override LED should be green and the boiler will fire. Press the override button again to switch off the boiler, the override LED should

5. Pairing will now commence between the units. To show a successful pairing process the Pair LED on the Smart Wiring Centre will turn Solid Green.

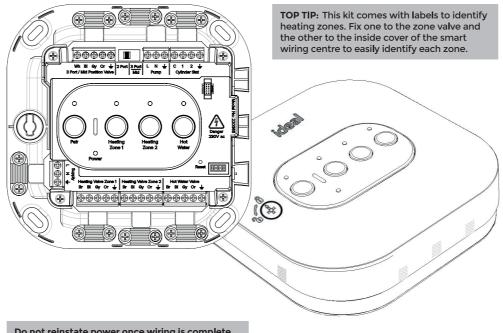


F. WIRING THE SMART INTERFACE

The Smart Wiring Centre must be installed by a competent person with the appropriate safety qualifications. All wiring must be adequately sheathed and insulated.

Isolate any 230V ac mains supply to the Smart Wiring Centre and any other linked components before

For detailed wiring instructions please refer to the wiring diagram fold-out in the kit. This gives detailed wiring on S-plan and Y-plan systems. Ensure selector switch is in the correct position for the installed system. Wiring can either be installed from the rear of the device through the back housing cut outs or surface mounted. When surface mounting any wiring, use the reversible omega clamps provided. Remove all appropriate cut outs on front cover for wiring.



Do not reinstate power once wiring is complete.

I. PAIRING OF THE HALO

The Halo PRT will now need to be paired with the Smart Interface installed by the boiler. Ensure the Smart Interface is still in pairing mode with the Zigbee LED flashing red.

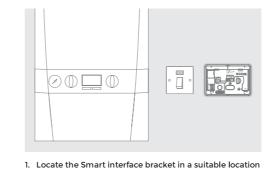
- 1. When the batteries are inserted, the Halo PRT will power up automatically.
- 2. The device will prompt pairing with the Smart Interface using an easy step-by-step process.
- 3. Simply follow the on-screen guide to select the type of boiler, Heat & System, and the system type, heating and hot water.
- 4. The Halo PRT screen will show "Pairing in Progress", then "Synchronisation in Progress" and then "Pairing Complete" when the Halo PRT has successfully connected to the Smart Interface.
- 5. The device will automatically prompt set up of the time and date.
- 6. There is the opportunity to add an installer contact phone number into the device at this stage, if not changed this will default to the Ideal Heating Customer Service number.
- 7. The home screen will be displayed showing the current and target temperature and the temperature bar. The Zigbee communication icon will also be visible on the display.
- 8. Once the Halo PRT is paired to the Smart Interface press and hold the pair button on the Smart Interface until the Zigbee LED goes to solid green.

For multizone systems please see the installation guide in the Halo Heat & System 2-Zone Upgrade kit for step 3 selections.

G. INSTALLATION OF THE SMART INTERFACE BRACKET AND THE SMART INTERFACE

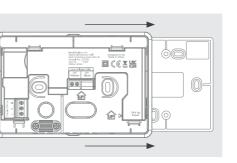
To install the Smart Interface into a new boiler follow the steps below. For further details on the compatibility of older boilers please visit idealheating.com

The Smart Interface Bracket can be mounted straight to the wall or onto an existing single gang wall box.



close to the boiler and fuse spur as the bracket is hard

Note: The bracket should be <30m from the Wi-Fi router otherwise a Wi-Fi extender may need to be used



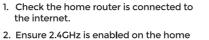
2b. To mount over the electrical box, place the bracket over 3. Isolate the mains supply. the electrical box and fix into place.



2a. To mount directly onto the wall, mark and drill 2

suitable fixings for the wall type.

mounting holes and fix the bracket to the wall using



J. CONNECTING THE HALO

TO THE INTERNET*

- Wi-Fi router.
- 3. If it has not been done already, download and install the Ideal Halo app onto the householders phone. (Available on Google Play or the Apple App Store.)
- 4. Open the Ideal Halo app, tap on create an account and follow the in-app instructions.
- 5. Once an account has been set up the app will automatically quide the user through connection of the Halo. This will involve using the app to link the Halo Smart Interface to the home Wi-Fi network by following the instructions on the
- 6. The householder will need the name of their home Wi-Fi network and the password or network key to complete the setup.

Minimum operating requirements Smartphone/Tablet - iOS 9 Android 6.0

PC latest version of Chrome, Safari, Firefox or

Internet Explorer on Mac OS or Windows 7



G. INSTALLATION OF THE SMART INTERFACE BRACKET AND THE SMART INTERFACE (CONT.)

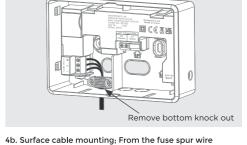


4a. Rear cable mounting; From the fuse spur wire the Live. Neutral and Earth connections into the left hand side connections in the Smart Interface Bracket marked L, N, (E).

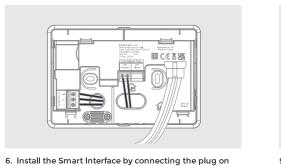
Master terminals located in the central position.

Rear or surface mount options are available.

ADVANCED SETTINGS

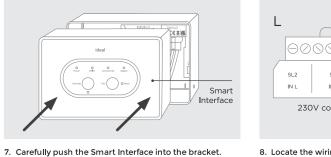


the Live. Neutral and Earth into the left hand side connections in the Smart Interface Bracket marked L, N, (E). Using the cable clamp provided.

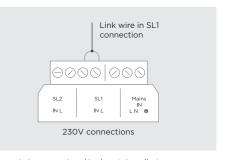


the Smart Interface to the connector in the bracket.

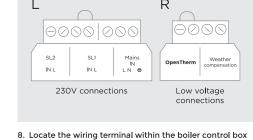
G. INSTALLATION OF THE SMART INTERFACE BRACKET AND THE SMART INTERFACE (CONT.)

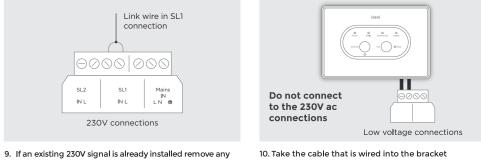


230V connections are on the left and low voltage on



existing wiring from the 230V connections and add the link wire into the SL1 connections





OpenTherm Master terminals and connect into the penTherm connections in the boiler ensuring it is run through the strain relief (in new boilers remove the link positioned here before wiring).

SMART WIRING CENTRE LED KEY

Description	Factory setting	New setting
Optimised start Boiler starts heating in advance of schedule so heating reaches the required temperature at the time specified.	OFF	
Optimised stop Boiler stops heating in advance of schedule so heating reaches the required temperature at the time specified.	OFF	
Delayed start If the room temperature is close to target temperature the heating start time is delayed to save energy.	OFF	
Display tolerance Select the display tolerance of the room temperature, this can be set at increments of 0.5 or 0.1°C.	0.1°C	
Temperature offset Fine tune the room temperature display -2.5 to 2.5°C.	0°C	
Daylight saving time Automatically move to daylight saving.	ON	
Frost protection The temperature that will be used to protect your home when the thermostat is off. Can be set 5°C.	5°C	
Service phone number Opportunity to input Installer contact number for service reminders.	Ideal Heating number	

HALO FEATURES AND CONFIGURATION

To enter

To enter the settings menu press the menu button.				
Menu options	Action			
Holiday	Holiday mode allows the device to be switched off for a predefined period of time then automatically returns to the pre-programmed heating schedule.			
Timed heating schedule	Set a heating schedule with up to 6 periods per day.			
Timed hot water schedule	Set a hot water schedule with up to 6 periods per day.			
Support	Includes information such as software version and key contact numbers.			
Fault page	Shows the latest fault code and fault description.			
Time and date	Time and date are set on power up and can be adjusted via the menu.			
Advanced settings	Advanced features of the device setup should be set by a competent person.			
Landlord settings	Specific settings for landlords.			

SMART INTERFACE LED KEY

Power	Green - Power ON No illumination - No power	Power	Green - Power ON Red Flashing - Override No illumination - No power	
Boiler	Green - Demand No illumination - No demand		No illumination - No Zigbee network Green - Zigbee network active	
Connectivity	No illumination - Cloud connection not configured	Pair	Green flashing - Identify function Red flashing - Pairing	
	Red - No connection Blue - Connection to Wi-Fi network OK, no cloud connection		Orange then flashing red - Smart Wiring Centre deleted from Zigbee network	
	Green - Connection to Wi-Fi and cloud OK Blue flashing - Access point mode	Heating Zone 1	Green - Demand No illumination - No demand	
Zigbee	No illumination - No Zigbee network Green - Zigbee network active	Heating Zone 2	Not used	
	Creen flashing - Identify function Red flashing - Pairing Red flashing then orange - Zigbee	Hot Water	Green - Demand No illumination - No Demand	
	network deletion Orange for 30s - Factory reset		and Failsafe only active when	
Override	Green - Override active*		tion is lost between the Smart Wiring Smart Interface. This allows for manual	

No illumination - Override OFF*

*Override and Failsafe only active when communication is lost between the Halo PRT and Smart Interface. See Halo User Guide for more

fe only active when st between the Smart Wiring terface. This allows for manua opening and closing of the zone valves.