

MULTIPIPE

RIO Control System

Installer instructions

System Overview

Many thanks for the purchase of this Multipipe Wireless control system. Please ensure you follow the wiring diagram at the end of this guide to ensure there are no issues once the system is registered. This system works on a Zigbee 2.4GHz connection and is very reliable. However, for this system to work, you have to ensure you register the thermostats so, please ensure you follow the enclosed instructions very carefully.

Before you start the registration, you need to ensure that if you have purchased the internet gateway (22-99908), you follow the online setup instructions (page 4). If you do not have the internet at the property yet, please see below. Failure to do so will mean you have to reset the system to use the internet gateway in the future. If you purchase the Internet gateway after the system installation, please follow the system reset instructions on pages 6-7.

Any hard-wired items from the Multipipe SMART range will extend this network around your client's home and may be required in a wireless control system if you struggle with connection in certain rooms. Purchasing the internet gateway and any ZigBee boosters, smart plugs, or relays will ensure an extension to your system. Whereas the offline system is limited to the range of the co-ordinator

Full System Guide

This guide has been written with minimum setup requirements for your client's system. for the full settings guide please scan the QR code to the right with your phone's camera.



End User Guide

Along with this guide, we have developed an end-user guide. This is for your client and can be viewed using the QR code to the left. This continues the setup of the thermostats.

System Registration (Offline) Via Coordinator

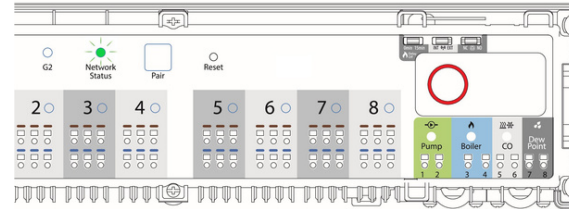
If you have purchased the Internet gateway (22-99998), please follow the instruction on page 4 or page 3 if your client has no active internet connection is not currently present.

1



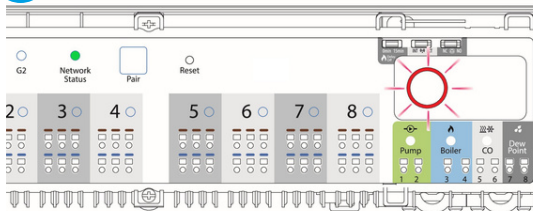
Plug your coordinator into the wiring centre (if not already inserted) and power up the wiring centre.

2



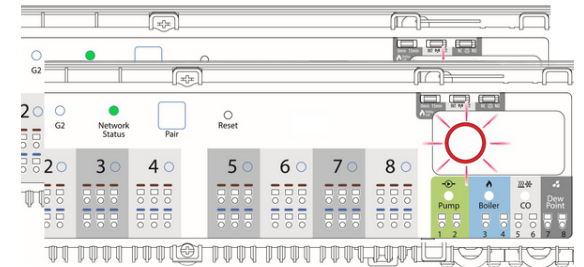
Wait until you have a solid red light. The network status light should be flashing green. If the network status light is solid green, follow the reset procedure (page 6).

3



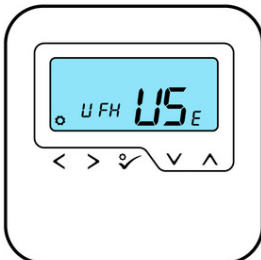
Press and hold the Co-ordinator light until you have a flashing red light. Within 10 seconds, the "network status" light will go solid green, indicating the controller's registration.

4



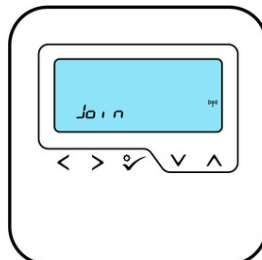
If you have multiple controllers, check that the "network status" lights are all solid green. If not, repeat the process on the next controller until all lights are solid green.

5



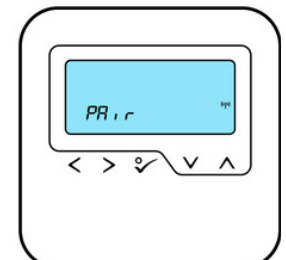
Ensure the coordinator light is still flashing red. Power up the thermostat and wait until "UFH USE" appears and press the ✓

6



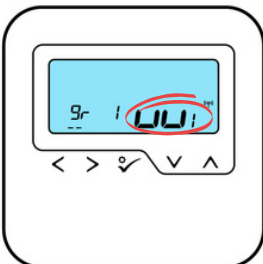
once "join" appears wait for a few seconds (do not press anything).

7



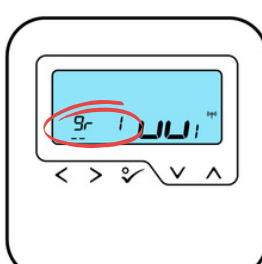
after several seconds "pair" will appear. If for any reason this fails follow the reset procedure (page 6)

8



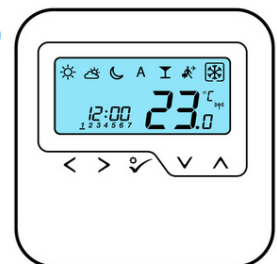
On this screen set the wiring centre you wish to register (if you have multiple). You can check the wiring centre number by pressing the pair button. press ✓ to accept.

9



next press the ✓ when the "- -" appears now you should find "gr 1" will flash this is your zone number in the wiring centre change using the ^ v and press ✓ to accept.

10



you will find the main screen should appear. if you have any issues follow the reset procedure. once finished press and hold the coordinator button to close registration.

System Registration (Offline) with Internet Gateway

If you do not have the Internet gateway (22-99998) please follow the instruction on page 2 if you have the gateway and an active internet connection please skip to page 4.

1



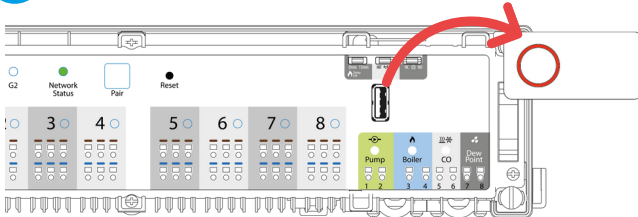
Plug your internet gateway in and wait for the light to turn red. If you have internet connection (blue light) skip to P4

2



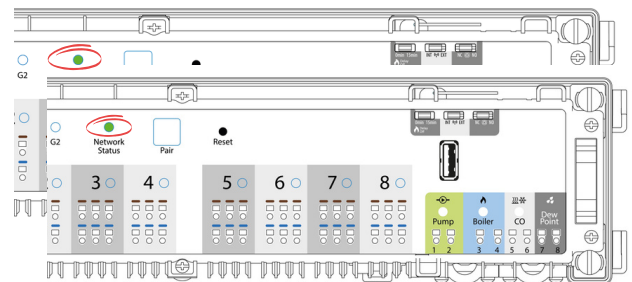
Press and hold the button on top for 3 seconds. Until the red light starts to flash.

3



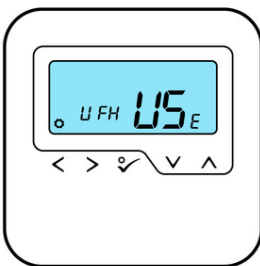
The "network status" light on all wiring centres should go solid green. Any boxes that do not change to solid green light follow the reset procedure (page 6). We highly recommend removing the coordinator as this is not required.

4



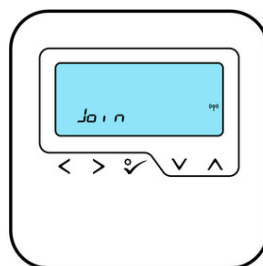
If you have multiple controllers, check the "network status" lights are all solid green. If not, you may have signal blackspots. If you have multiple wiring centres, check the assigned number by pressing the pair button (the LED will show the assigned number)

5



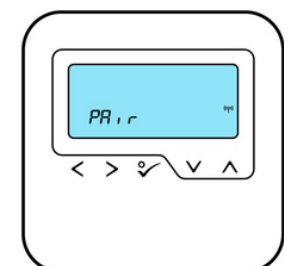
Ensure the gateway light is still flashing red. Power up the thermostat and wait until "UFH USE" appears and press the ✓

6



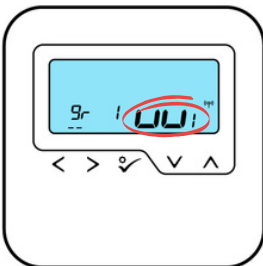
once "join" appears wait for a few seconds (do not press anything).

7



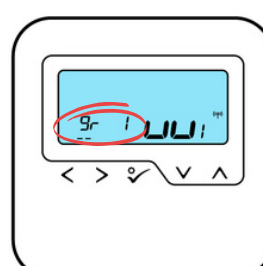
after several seconds "pair" will appear. If for any reason this fails follow the reset procedure (page 6)

8



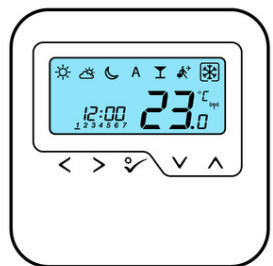
On this screen set the wiring centre you wish to register (if you have multiple). see point 4 to check the wiring centre number. press ✓ to accept.

9



next press the ✓ when the "- -" appears now you should find "gr 1" will flash this is your zone number in the wiring centre change using the ✓ and press ✓ to accept.

10



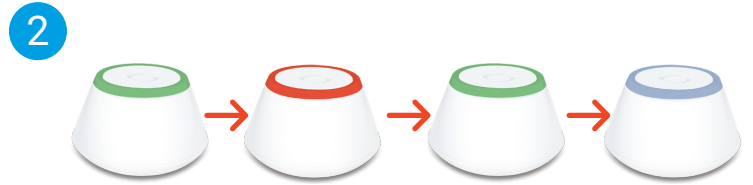
you will find the main screen should appear. if you have any issues follow the reset procedure.

System Registration (Online) with Internet Gateway

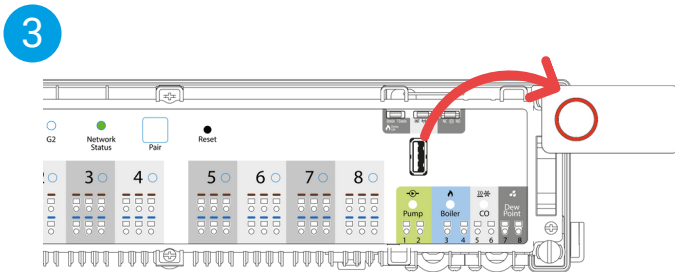
If you do not have the Internet gateway (22-99998) please follow the instruction on page 2. You will need a smartphone to complete this registration.



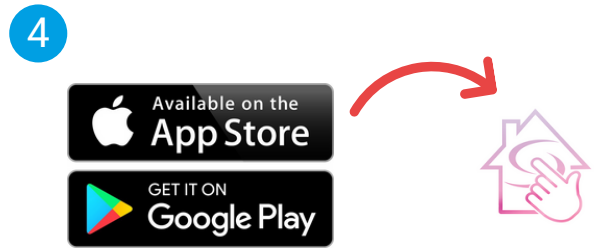
Setup the wiring of the unit as per the diagram to the clients internet router.



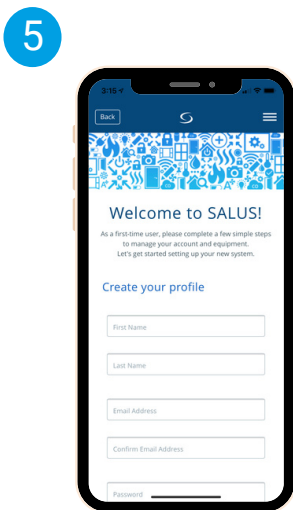
You will find the light sequence should follow the above. after several minutes you are looking for a steady blue light. If you do not get this follow the reset procedure.



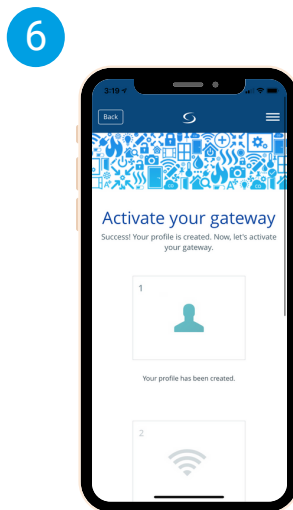
ensure all coordinator over all boxes are unplugged as these will no longer be required.



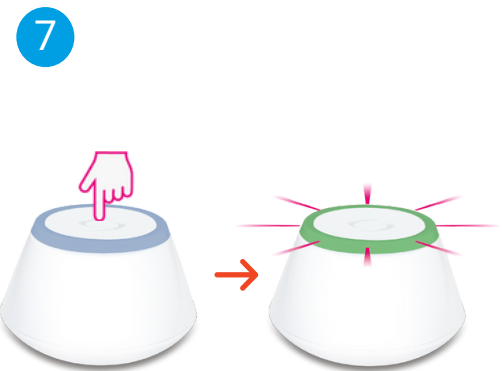
Download the Salus Smart Home App from the Google Play Store or the App Store.



Open the app. You need to register your clients details first before being able to register thermostats. Once you have confirmed your email address you can sign in using your clients details.

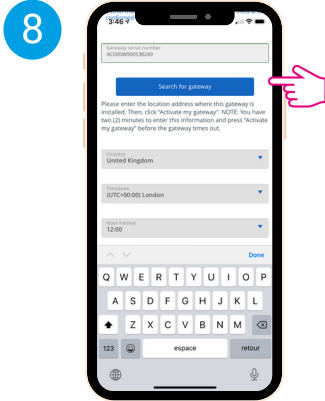


Once you have logged in you will get this screen. Scroll down and click "activate gateway"

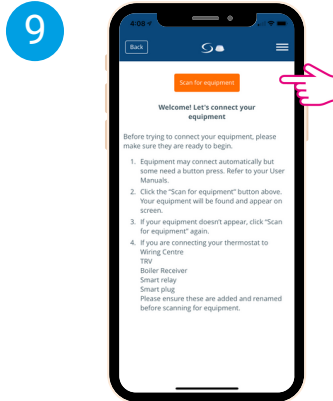


Press the button on top of the internet gateway (do not press and hold). The button will change to flashing green.

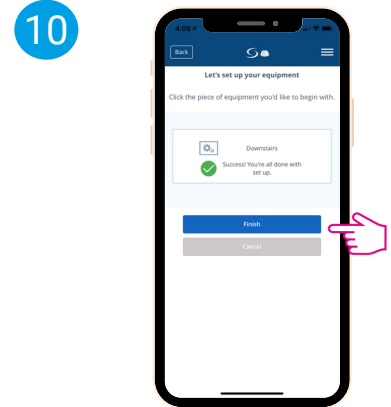
System Registration (Online) with Internet Gateway cont.



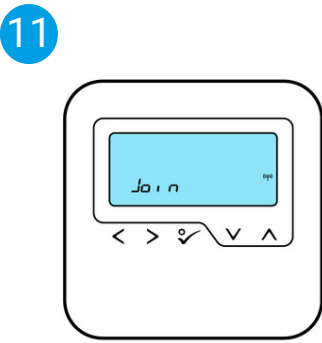
Once the Internet Gateway is flashing green press "search for gateway". This will populate the serial. Fill out the remaining information and click "activate my gateway" at the bottom. (you have 2 minutes to complete the form).



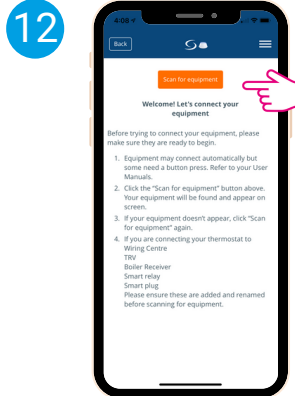
Press "connect equipment" if you only see the main menu click on the following:
☰ > equipment > All equipment > add new Equipment. Ensure all thermostats are currently unpowered. once on this screen click "scan for equipment"



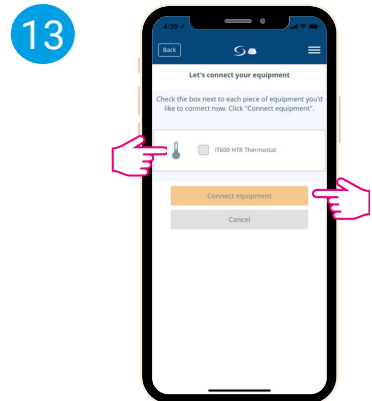
Press "Scan For Equipment". This will find all wiring centres. Select all wiring centres and click add. You can name them to make identifying easier (if you need to ID them click identify this will flash the G1/G2 light on the wiring centre) click next > then click finish.



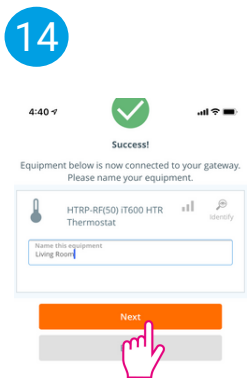
Go back to the adding of equipment in the app (step 9). Power up one thermostat at a time wait till "UFH use" appears and press ✓ until "join" appears.



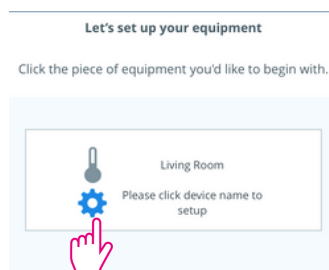
Back in the app press "scan for equipment"



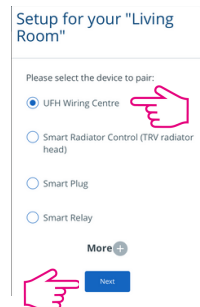
after several seconds "IT600 HTR" will appear in the app, select this and click connect. (do not press anything on the thermostat)



name the thermostat and click next



select the cog



select wiring centre and then next

System Registration (Online) with Internet Gateway cont.

Please select the correct Wiring Centre from the list below.
if the wiring centre is not on the list please next and then add wiring centre and associate later

Wiring Centre found

Wiring Centre
Downstairs (1)

Wiring centre not on list

Setup for your "Living Room"

Zone number

Pair

Would you like a default schedule

No

Yes

Next

select from the dropdown the correct wiring centre

next, select the zone you wish to register. Finally, click pair.

Finally set a default time schedule and time format. (the schedule can be changed later)

Once you have completed your first thermostat, repeat the same process of adding one thermostat at a time using the same procedure from point 11 onwards. Once complete, the system can be reviewed from the home screen.

System Reset.

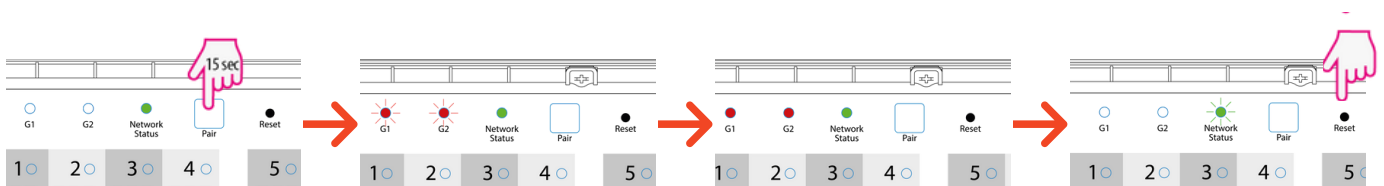
Following this procedure will reset all systems settings, including the Zigbee network and thermostat registration. Following this will mean all thermostats will need to be added. This procedure will be required if you installed the system using the coordinator (page 2) and purchased the internet gateway, as these systems are treated differently.



First, reset your gateway or Coordinator by pressing the button on the device you have used for 15 seconds. The light will change, but you need to keep holding until the light turn orange confirming the reset. next, reset all wiring centres

Controller Reset.

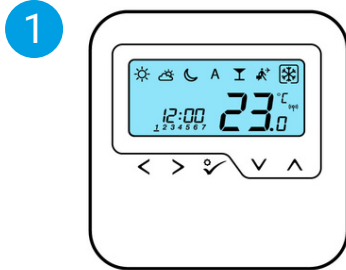
After following the above procedure of resetting the ZigBee network you need need to reset all controllers on the network.



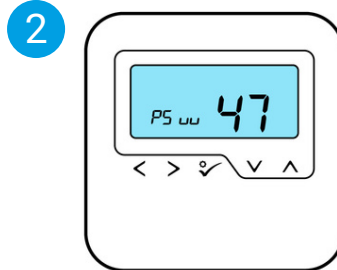
Press and hold the pair button for 15 seconds. Firstly the G1 and G2 lights will rapidly flash keep holding until they go solid red for around 1 second. after this release. After a couple of seconds, the network status light will go flashing green. Lastly, press the reset button in (do not press and hold) using a small thin screwdriver. This will finish the reset. (all thermostats will now show an error)

Thermostat Reset

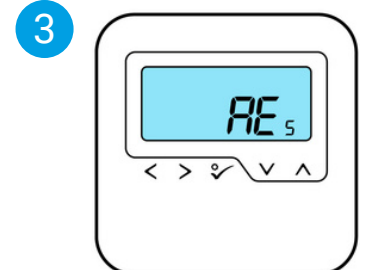
Most of the time, when the system is reset, the thermostats automatically reset to point 3 below. If, for any reason, you need to reset one thermostat or the reset does not automatically happen, please follow below.



press the to illuminate the screen then press and hold the 5 sec. "PSuu00" should appear on the screen.

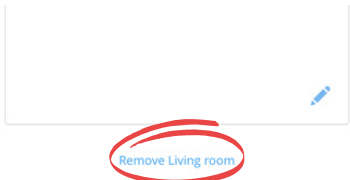


scroll down using the until you reach setting 47 and press "Del" will appear and press again to confirm reset.



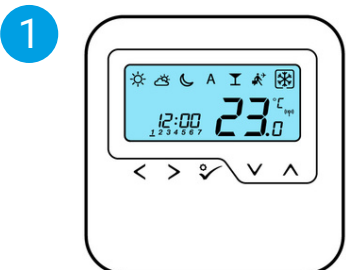
after several seconds "AEs" will appear press the to confirm the reset. after several boot screens "UFH use" will appear again.

remove thermostat from app.
Once you remove the thermostat from the system (see above) log into the app and click on the thermostat and the cog and scroll to the bottom and click "remove xxx"

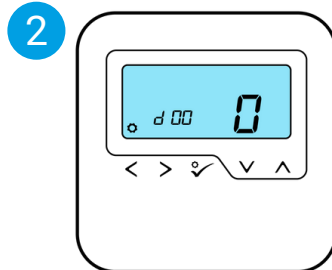


Activate Thermostat External Sensor.

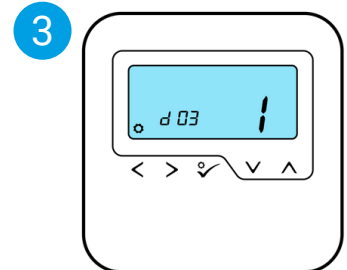
If you have fitted an external sensor you need to activate and set it. if you have the gateway this is easily done in the advanced settings inside the app. Or you can set it offline by following below.



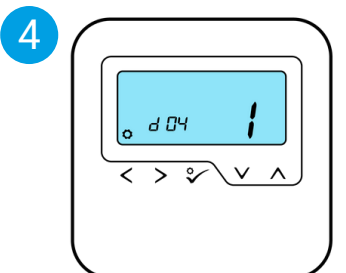
press the to illuminate the screen then press and hold the 5 seconds "PSuu00" should appear on the screen.



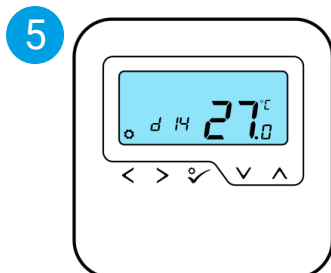
scroll down using the until you reach setting 49 and keep pressing the until you see the above



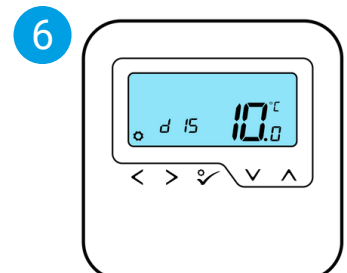
using scroll to "d03" and use the to change to setting 1 this will activate the sensor



using scroll to "d04" and use the to change to setting 1 if the sensor is sue for floor protection



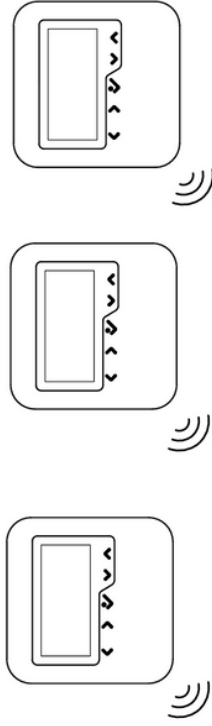
if "d04" is set to 1 then scroll using to "D14" and using change the max floor surface temperature



if "d04" is set to 1 then scroll using to "D15" and using change the min floor surface temperature

Once complete scroll using to D18 then press to accept and exit. at any time you wish to cancel press and hold the to cancel.

Wiring Colours	Wire colour	representation
		Live
		Neutral
		Earth
		LS (from Boiler)
		LR (switch to boiler)
		Switched Live
		Volt free contact



Wireless Specification:

connection type - ZigBee 2.4 Ghz
Rating - 3 Amp Max
Voltage - 230V AC 50Hz

Disclaimer:

- All information provided in this diagram is not job-specific and will require the thermostats' wiring to match the zoning set out by the installer on the manifold.
- All wiring should be carried out by a qualified electrician and always follow the latest IET Wiring Regulations. Failure to do so will invalidate the warranty, invalidate home insurances or cause injury.
- Multipipe Ltd holds the rights to all information contained in this schematic and at any time can change the information, specification or details without prior written notice. All updated information can be found on our website <https://www.multipipe.co.uk/> or by calling 01245227630
- All information provided has been tested compatibility and in line with the manufacturer. Providing the guidance is followed and is installed by a qualified electrician. The air temperature control system shall be guaranteed for five years.
- All wiring colours are as per the IET regulations. In some cases, other wiring colours have been used. To ensure correct wiring. Please use the table provided for correct wiring.

