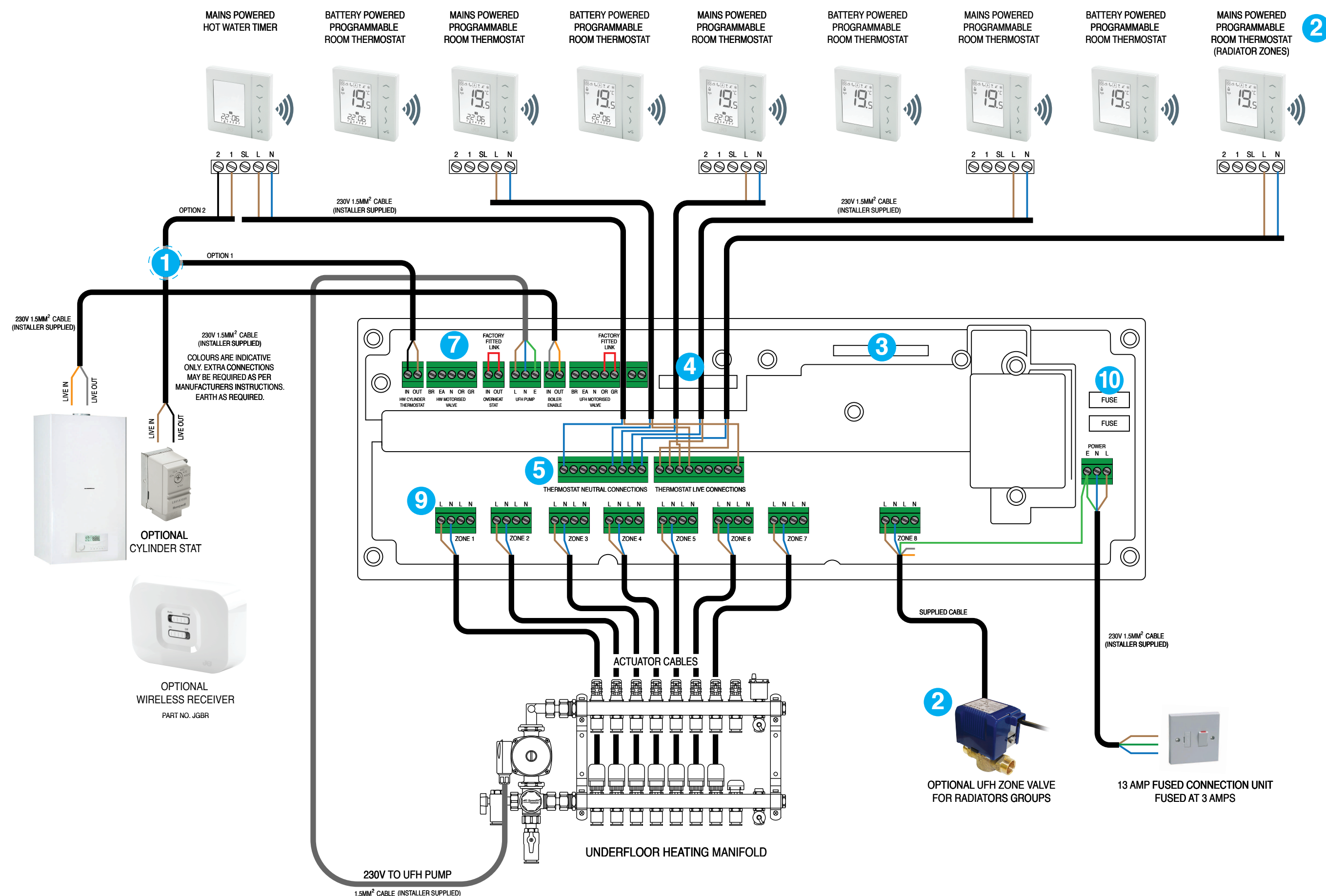
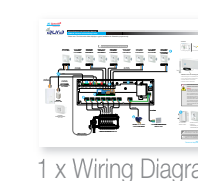


Wiring Diagram and Instruction Manual
JGWCW - Wireless 8 Zone Wiring Centre


Z2105/413/1114


Please note: The information below displays a typical installation for illustration purposes only.

 See Thermostat Instruction Manual for grouping options.


Contents

JGWCW meets the following EC directives:

- Electro-Magnetic compatability directive 2004/108/EC
- Low voltage directive 2006/95/EC
- RoHS2 directive 2011/65/EU
- R&TTE directive 1999/5/EC

 These instructions are applicable to the Speedfit Aura model as stated above.

Warning
 This product must be fitted by a competent person, and installation must comply with the guidance, standards and regulations applicable to the location where the product is installed. Failure to comply with the requirements of the relevant guidance, standards and regulations could lead to prosecution, injury or death.

Earthing/bonding of all field devices must be in accordance with the aforementioned guidance, standards and documentation.

Always isolate the AC Mains supply before installing or working on any components that require 230v AC 50Hz supply.

Isolation of the mains supply to the JG Wiring Centre via the local fused connection unit MAY NOT isolate all mains voltages present (such as boiler enable).



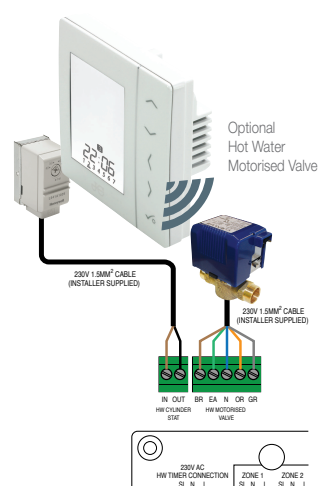
 Please leave these instructions with the end user where they should be kept in a safe place for future reference.

 For the PDF Instruction Manuals please go to www.speedfitUFH.co.uk

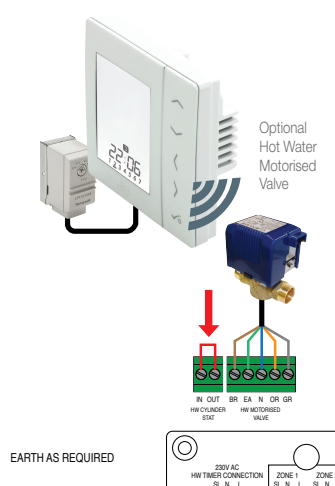
www.speedfitUFH.co.uk
 Technical Help Desk: 01895 425333

1**Hot Water Connections**

Option 1 - Connect cylinder thermostat directly to Wiring Centre.



Option 2 - Connect cylinder thermostat directly to Wireless Hot Water Timer for communication with the Wiring Centre. A link will be needed between IN and OUT on the Wiring Centre as shown by the arrow.

**Sensor Terminals**

Can be used for external AIR floor sensor when configured as a thermostat.
 Can also be used for cylinder thermostat when connected for hot water.

2**Dip Switch Set Up**

In order for the wiring centre to be able to control UFH and radiators, there is a need to turn off the UFH pump for a zone when that zone is to be used for radiators.

Example: When fitting a zone for radiators or towel rail then the Dip Switch that zone should be switched to OFF. The Dip Switches for this are located under the front lid. When the zone switch is in the ON position the UFH pump will run when that zone is calling for heat along with the boiler. When it is in the OFF position then the UFH pump will not run but the boiler will fire.

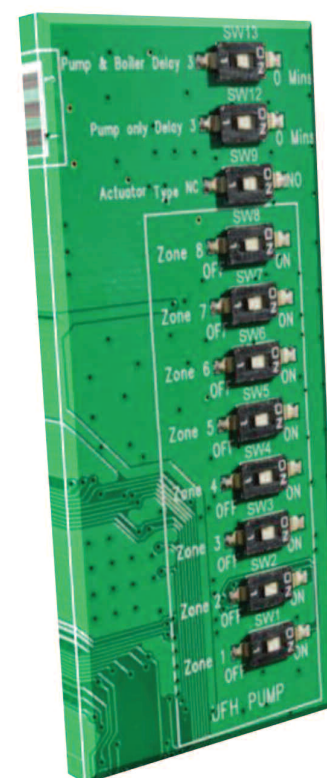
Note: Zone valves controlled by the actuator connections require only the live, neutral and earth wires to be connected to the corresponding zone.

There are three other function switches as well.

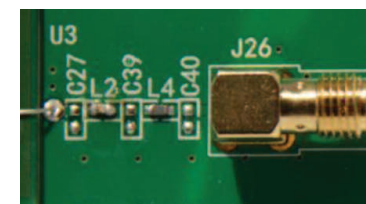
Pump & Boiler delay: This gives a three minute delay to allow actuators to open before the boiler fires.

Pump Only Delay: Delays only the UFH pump from firing for three minutes.

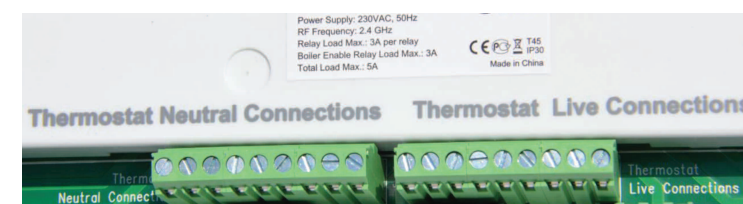
Actuator NO or NC: This refers to Normally Open or Normally Closed. JG actuators supplied in NC configuration.

**3****Ribbon Connection**

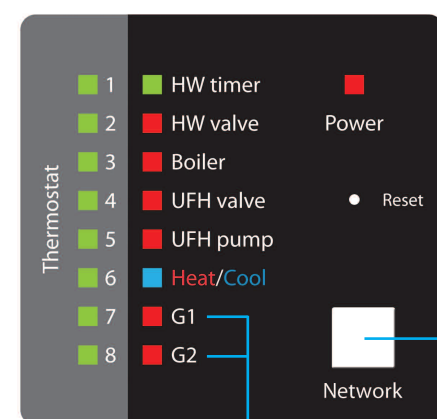
This must be carefully removed or replaced when removing or replacing the wiring centre cover, being careful to ensure the correct orientation.

**4****Aerial Connection****5****Thermostat Connections**

Thermostat connections are to power the thermostats only. There is no switched live needed as this is done with a wireless signal. Power can therefore be supplied to the thermostat locally from any suitable power source if connecting to the wiring centre from the thermostat is difficult. Battery powered wireless thermostats can also be used. These can be mixed with 230V Wireless Thermostats as an alternative.

**6****Wireless - Information Display**

After setting up, the Coordinator will assign the Wiring Centre a number. This is because more than 1 Wiring Centre may be used on a project. Pressing the network button will illuminate the relevant number. The example shown is for Wiring Centre 1. If 1 & 2 are lit it would be Wiring Centre 2.

Thermostat Zones

Groups 1 and 2

**7****Motorised Valves, Pump, Boiler & Stat Connections**

HW Cylinder Thermostat (Optional): If connecting the cylinder thermostat directly to the timer then a link needs to be fitted between IN and OUT on the HW cylinder thermostat connection.

HW Motorised Valve (Optional): Used if timed hot water is required.

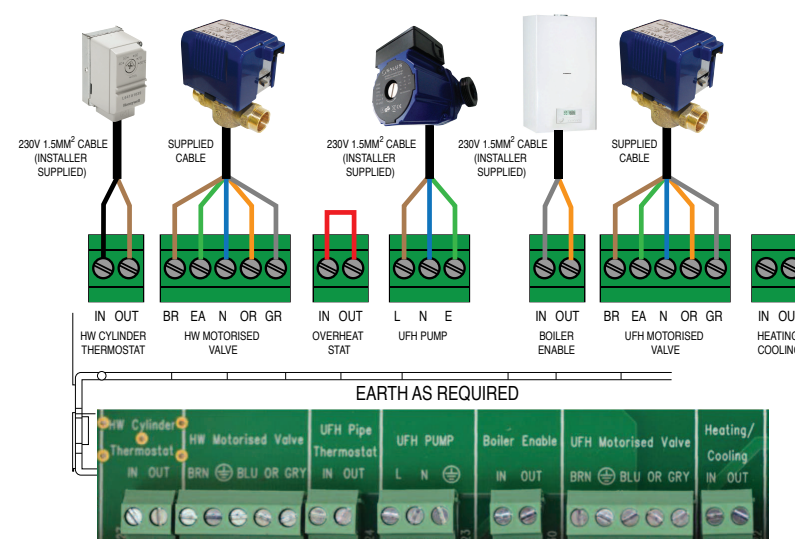
Overheat Thermostat (Optional): Used for connecting a pipe thermostat to prevent over temperature water damaging sensitive floors. Remove the link and connect the pipe thermostat so it is Normally Closed. The pipe stat will open if overheating occurs and the UFH pump will stop running.

Boiler Enable (Optional): This Volt Free connection must come from the boiler thermostat connection. When any zone calls for heat the boiler enable will close causing the boiler to run. If work is being carried out on the boiler then power to and from the switch will cease. (Do not connect to the boiler IN terminal by linking a 230v feed from the wiring centre).

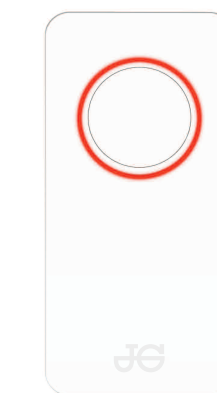
UFH Motorised Valve (Optional): If a UFH motorised valve is fitted then remove the link between OR and GR.

Heat/Cool Changeover (Optional): This connection allows heat/cool changeover of all thermostats using a single external switch (installer supplied).

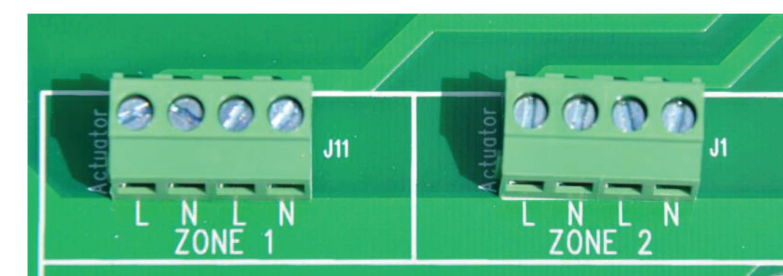
Switch: Open-Heating, Closed-Cooling.

**8****Coordinator**

A Coordinator is required by all wireless systems and must remain powered.

**9****Actuator Connections**

Actuator connections corresponding to the thermostat connections. Up to 2 cables can be used in each connection (4 actuators per Zone). If more than that number needs to be connected, then an external junction box will be needed. A maximum of 6 actuators can be connected to a zone in this manner.

**10****Fuses**