

AWC10 Installation Guide

Connections

Mains Supply

Power supply into the AWC10, which should be fused at 5 amps, these connections are L = Live or phase 230v AC 50/60Hz E = Earth N = Neutral

Heat Enable

This is the main call for heat for the system, there are 3 connections: LS = Live Supply E = Earth LR = Live Return Electrically this is a volt free switch, whatever supply is placed on the LS connection, is fed to the LR connection when there is a call for heat.

Zones 1...10 (Inputs)

Zone inputs are clearly marked at the top of the circuit board; L = Live supply to thermostat.

E = Earth N = Neutral supply to thermostat.

S/L = 230v switch live from thermostat, this activates the corresponding zone output.

Zones 1...10 (Outputs)

Zones outputs are clearly marked

L = live out to actuator or valve

N = neutral to actuator or valve

There are two connections live (L) and neutral (N), both terminals marked L are the same and both terminals marked N are the same. Each zone output corresponds to the thermostat wired in at the top of the pcb.

Zone10

Zone 10 can be used as an isolated radiator zone, by using the UFH/RAD switch. If the switch is set to RAD; When zone10 calls for heat this will provide an output to a radiator zone valve and the boiler but WILL NOT enable the under-floor heating pump/valve output.

If the switch is set to UFH; When Zone 10 calls for heat, this will act as an under-floor heating zone, by enabling the actuator, boiler and pump/valve outputs. Any output which is not needed can be ignored.

UFH Pump

Used for an underfloor heating manifold pump, connections are L = Live E = Earth N = Neutral

When an under-floor heating zone sends a call for heat to the AWC10, the live & neutral output will supply 230v to the manifold pump

The delay time is 3 minutes if switch in 1; The delay time is 1 minute if switch in ON;

It is recommended that this is fed through a high limit switch placed on the heating manifold, to protect against mechanical failure of the manifold's temperature control.

UFH Valve

Used for an underfloor heating manifold valve. Connections are Clearly marked.

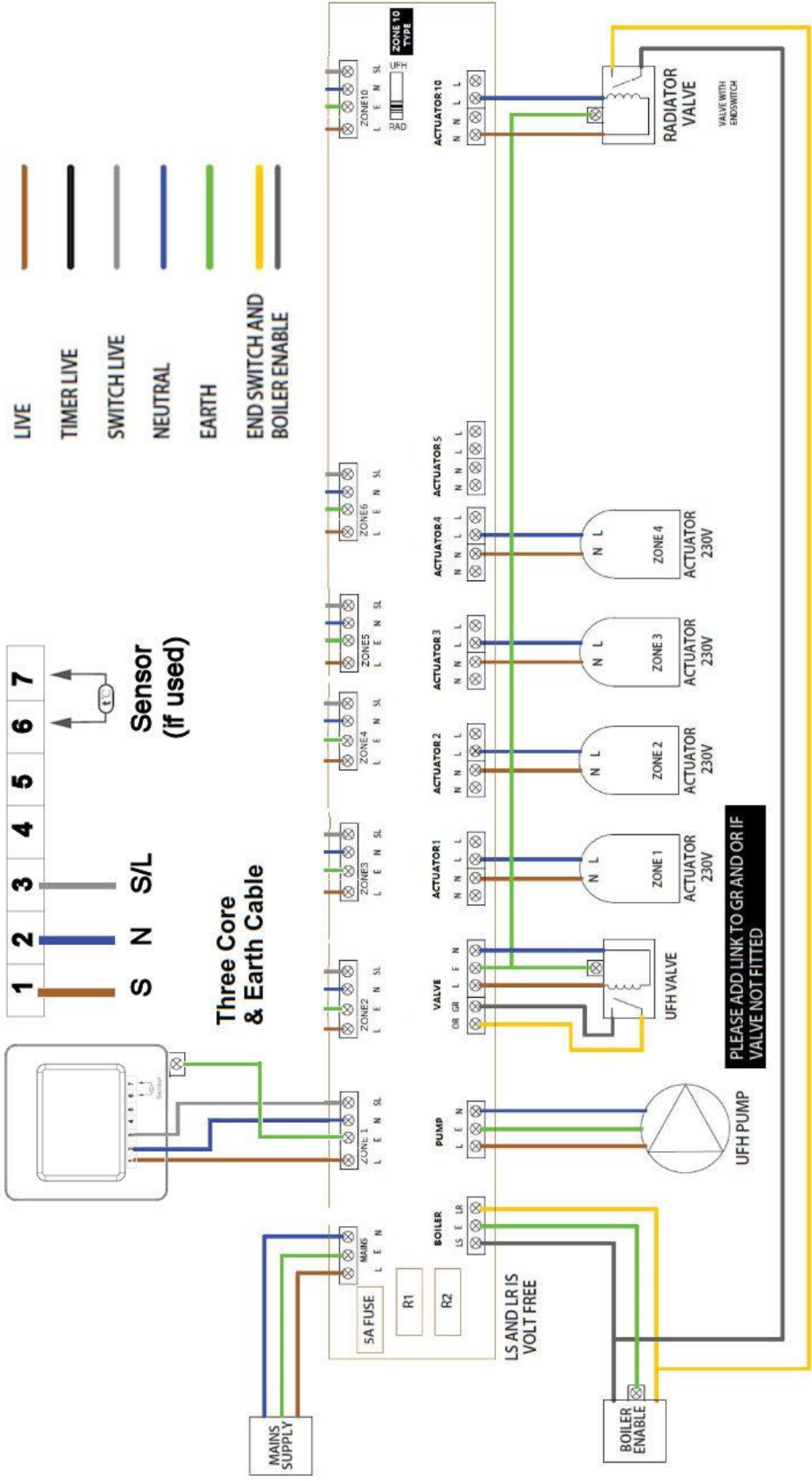
To enable Pump delay Or and Gr must be shorted

Or = Orange Gr = Grey L = Live E = Earth N = Neutral

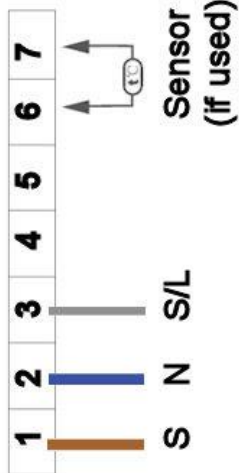
When an under-floor heating zone sends a call for heat to the AWC10, the live & neutral output will supply 230v to the manifold valve. The auxiliary wires of the valve, usually grey & orange, are wired to the Gr & Or terminals.

Fuses

Fuse 5amp, 30mm anti-surge fuse, this fuse supplies power to all 230v outputs from the board it protects the zone, pump/valve outputs.



- LIVE
- TIMER LIVE
- SWITCH LIVE
- NEUTRAL
- EARTH
- END SWITCH AND BOILER ENABLE
- LS AND LR IS VOLT FREE



Three Core & Earth Cable

PLEASE ADD LINK TO GR AND/OR IF VALVE NOT FITTED

LS AND LR IS VOLT FREE