



# 10 Zone Wiring Centre

Installation Guide

## Description

Fastwarm 10 Zone Wiring Centre are for use with 230v thermostats, to control any 230v normal closed thermal actuator for multi zone control.

Fastwarm 10 Zone Wiring Centre offers a volt free terminal to operate the heat source such as boilers and heat pumps.

Additional outputs designed for use with under-floor heating systems are also included such as 230v terminals for the underfloor pump and underfloor heating motorized valve.

## Pump Delay

Fastwarm 10 Zone Wiring Centre have a featured pump delay, users can adjust between 3mins (DEFAULT) or 1min by adjusting the switch on the pcb board. The pump output delay time is 3 minutes if switch is set to "1" and 1 minutes if switch is set to "ON"; this can be located to the right of the fuse on the pcb board.

## Zone10 (Use for UFH or RADS)

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.

To enable Pump delay Or and Gr must be linked;

**Or** - Orange

**Gr** - Grey

**L** - Live

**E** - Earth

**N** - Neutral

When an under-floor heating zone sends a call for heat to the Wiring Centre, 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.

## Connections

### Power Supply

Power supply should come from a fused spur;

**L** - Live 230v AC 50/60HzE

**E** - Earth

**N** - Nuetral

### 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.

# 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 wiring centre the live & neutral output will supply 230v to the manifold pump. The pump and boiler delay time is 3 minutes if switch in 1 ; The pump and boiler 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 manifolds temperature control.

# 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 Wiring Centre, 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.

