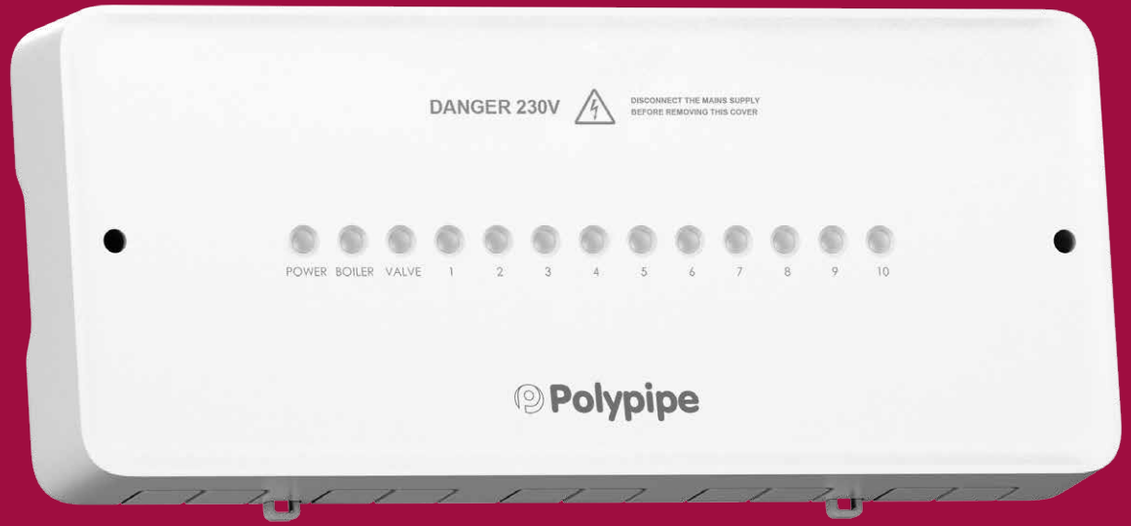
Polypipe

Underfloor Heating



UFH10ZW

10 Zone Wiring Centre

Installation and Operation Guide

Table of contents

Factory Default Settings 1

Specifications 1

Mounting and Installation 1

Wiring Centre Terminals 2

Power Supply 2

Programmer 2

Thermostats (Zone 1 to Zone 8) 2

Thermostats (Zone 9 and Zone 10) 2

Heat Enable (Boiler / Heat Pump On) 2

UFH Pump (Underfloor Heating Pump) 3

UFH Valve (Underfloor Heating Valve) 3

Actuators (Zone 1 to Zone 8) 3

Actuators (Zone 9 and Zone 10) 3

Operation of Zone 9 & 10 UFH – RAD / HW switches 3

Wiring UFH10ZW - 10 x Underfloor Heating Zones 4

With Mains Operated Programmable Thermostats - UFHPSTATW 4

With Mains Operated Non - Programmable Thermostats c/w Setback - UFHDSTATW 5

With Battery Operated Programmable Thermostats - UFHPROBW 6

With Mains Operated Non Programmable Thermostats - UFHPROGW 7

With Mains Operated Programmable Thermostats - UFHSMARTW 8

With Mains Operated Programmable Thermostats - UFHSMARTWIFIW 9

With Mains Operated Non - Programmable Dial Thermostats - UFHDIALW 10

With Mains Operated Programmable Time Clock - UFHTIME4W with Non - Programmable Dial Thermostats - UFHDIALW 11

Factory Default Settings

Zone 9 Switch: UFH Zone 10 Switch: UFH

Grey and Orange terminals of the UFH valve are electrically linked. If UFH valve is fitted, remove this link.

Specifications

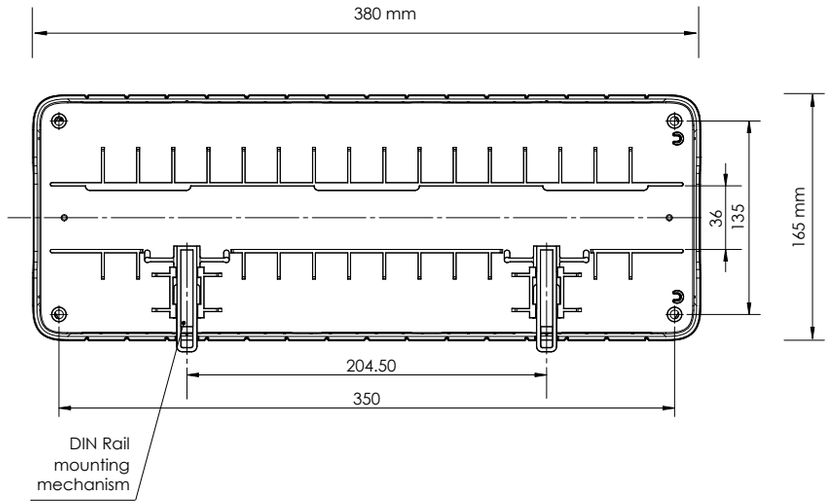
Power supply:	230Vac 50-60Hz
Number of Zones:	10
Power Supply Indication:	Yes
Heat Enable Indication:	Yes
UFH Valve Indication:	Yes
Zone 1 to Zone 10 Indication:	Yes
Ambient temperature:	0…45°C
Admissible ambient humidity:	5-95%RH
Dimensions:	380 x 165 x 50 mm
Heat Enable contact rating:	3(1)A
UFH Pump contact rating:	3(1)A
IP rating:	IP20
Max. No. of actuators per zone	4
Max. Permissible Load	5A Resistive

Mounting and Installation

Caution!

- Installation and connection should only be carried out by a qualified person.
- Only qualified electricians or authorised service staff are permitted to open the thermostat.
- If the thermostat is used in a way not specified by the manufacturer, its safety may be impaired.
- Prior to setting the thermostat, it is necessary to complete all required settings described in this section.
- Before commencing installation, the thermostat must be first disconnected from the mains.

1. Remove the UFH10ZW from its packaging.
2. The UFH10ZW can be directly mounted on a wall using the fixing holes on the base of the unit or it can be directly mounted on DIN rail.



Wiring Centre Terminals

Power Supply

L 230Vac Live
⏚ Earth
N Neutral

Programmer

L 230Vac to the programmer.
⏚ Earth to the programmer.
N Neutral to the programmer.
1 Zone 1 output from programmer to the wiring centre.
2 Zone 2 output from programmer to the wiring centre.
3 Zone 3 output from programmer to the wiring centre.
4 Zone 4 output from programmer to the wiring centre.

Thermostats (Zone 1 to Zone 8)

L Live supply to the thermostat.
1 Timed switch live to room stat from programmer zone 1.
2 Timed switch live to room stat from programmer zone 2.
⏚ Earth.
N Neutral supply to the thermostat.
S/L Switch live from the thermostat to the wiring centre.

Note: With thermostats 1 to 8, you have an option of; one of two time inputs.

Thermostats (Zone 9 and Zone 10)

L Live supply to the thermostat.
1 Timed switch live to room stat from programmer zone 1
2 Timed switch live to room stat from programmer zone 2
3 Timed switch live to room stat from programmer zone 3
4 Timed switch live to room stat from programmer zone 4
⏚ Earth.
N Neutral supply to the thermostat.
S/L Switch live from the thermostat to the wiring centre.

Note: With thermostats 9 & 10, you have an option of; one of four time inputs.

Heat Enable (Boiler / Heat Pump On)

LS Live supply
⏚ Earth
LR Live return

This is a volt free relay which is switched on when there is a call for heat.

If 230V is applied to terminal LS and there is a call for heat, 230V will come back on terminal LR.

UFH Pump (Underfloor Heating Pump)

L 230Vac Live
⏚ Earth
N Neutral

When an underfloor heating zone calls for heat, 230V is sent to the underfloor heating manifold pump.

Best practice is to wire the underfloor heating manifold pump through a high limit thermostat which is mounted on the manifold.

UFH Valve (Underfloor Heating Valve)

GR Grey Switch Live
OR Orange Permanent Live
L Live
⏚ Earth
N Neutral

When an underfloor heating zone calls for heat, 230V is sent to the Underfloor heating valve.

The valves auxiliary contacts are wired to the GR and OR terminals.

Note: Please refer to factory default settings on page 1.

Actuators (Zone 1 to Zone 8)

L 230V Live supply to the actuator.
N Neutral supply to the actuator.

There are two terminals marked L & N for each zone.

Actuators (Zone 9 and Zone 10)

L Live supply to the actuator.
N Neutral supply to the actuator.

There are two terminals marked L and two terminals marked N for each zone.

Both zones 9 and 10 have a switch associated with each zone.

This allows the installer to use these zones as underfloor heating zones or radiator / hot water zones.

Operation of Zone 9 & 10 UFH – RAD / HW switches

If set to UFH – When the thermostat calls for heat, the actuator, boiler and pump / valve outputs are enabled.

If set to RAD / HW – When the thermostat calls for heat, the actuator is enabled.

To enable the boiler output, the actuator auxiliary contacts (Grey and Orange wires) must be connected to the LS & LR terminals of the Heat Enable.

SWITCH SELECTED	HEAT ENABLE	UFH PUMP	UFH VALVE	ZONE VALVE ACTUATOR
UFH	On	On	On	On
RAD	Off	Off	Off	On

UFH10ZW - 10 x Underfloor Heating Zones

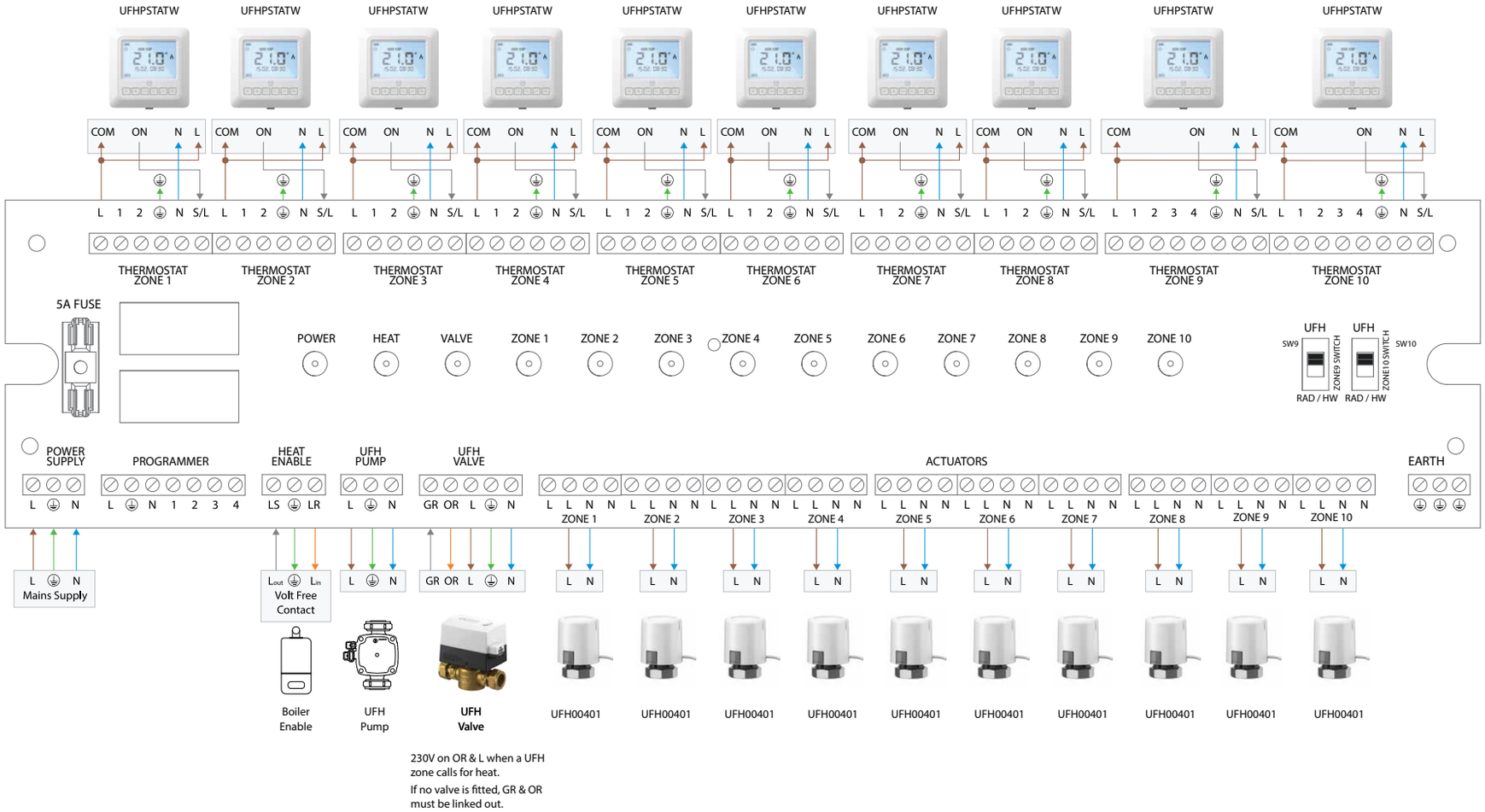
c/w Programmable Digital Thermostat
Mains Powered.



UFHPSTATW

Note: Please refer to individual thermostat wiring diagrams.

CONTROLS	INSTALLED
UFH Pump	Yes
UFH Valve	Yes
UFH Actuators	Yes
Programmer	-
RAD Valve	-
HW Valve	-



UFH10ZW - 10 x Underfloor Heating Zones

c/w Non - Dial Programmable Setback Thermostat
Mains Powered.



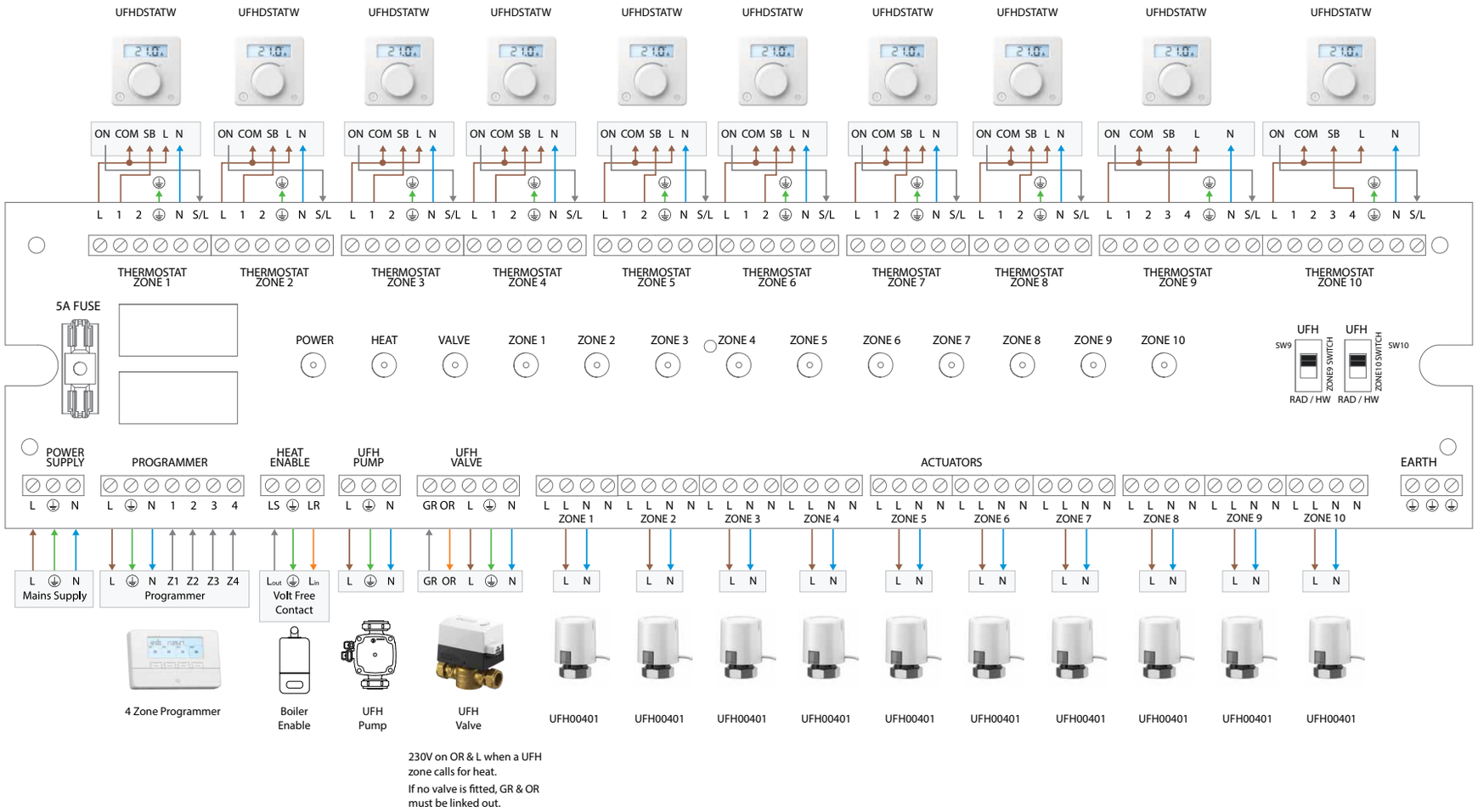
UFHDSTATW

Note: Please refer to individual thermostat wiring diagrams.

CONTROLS	INSTALLED
UFH Pump	Yes
UFH Valve	Yes
UFH Actuators	Yes
Programmer	R47
RAD Valve	-
HW Valve	-

In this example:

- Zone 1 on the programmer is controlling thermostats 1, 2, 3 & 4
- Zone 2 on the programmer is controlling thermostats 5, 6, 7 & 8
- Zone 3 on the programmer is controlling thermostat 9
- Zone 4 on the programmer is controlling thermostat 10



UFH10ZW - 10 x Underfloor Heating Zones

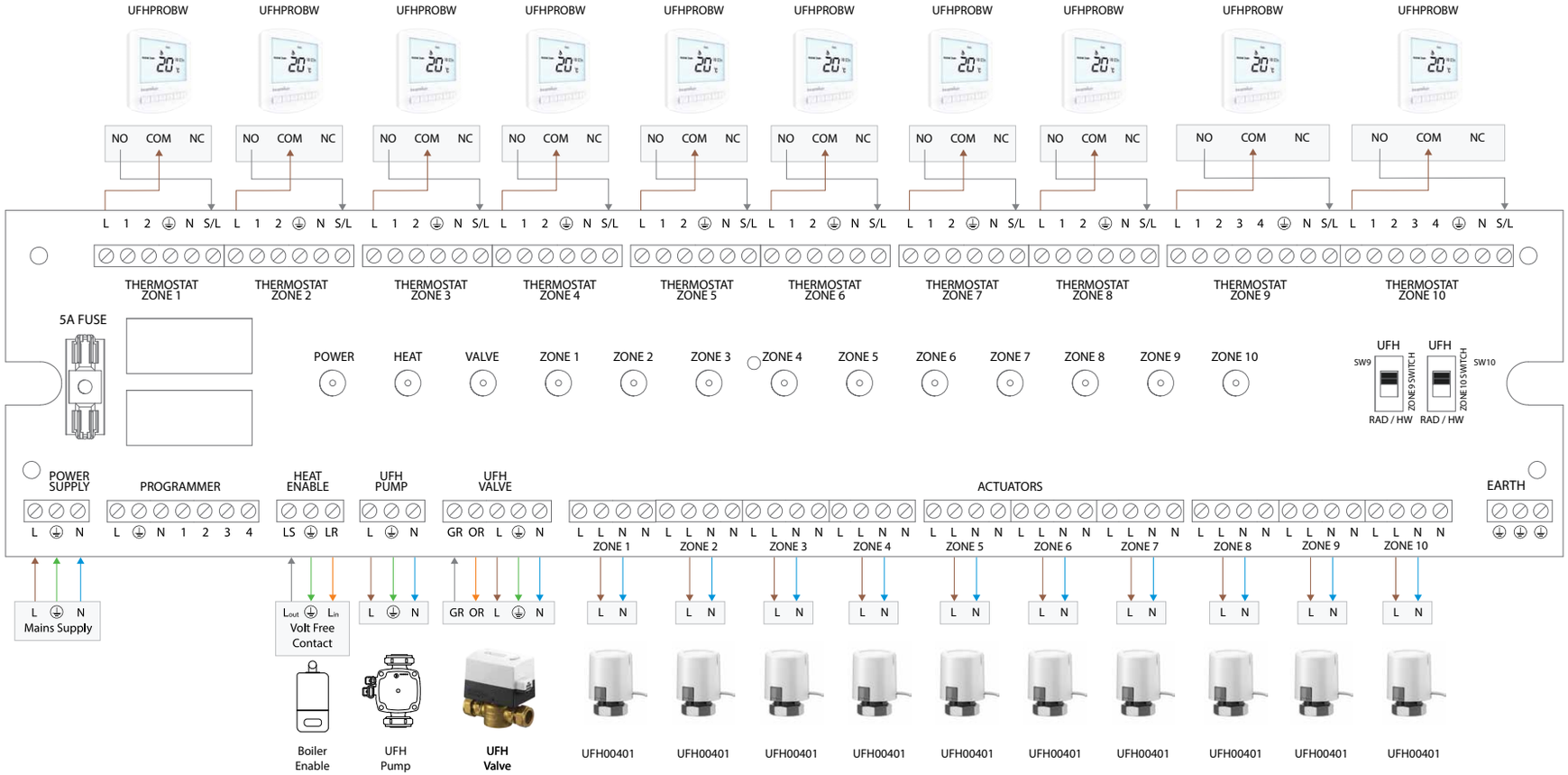
c/w Programmable Digital Thermostat
Battery Powered.



UFHPROBW

Note: Please refer to individual thermostat wiring diagrams.

CONTROLS	INSTALLED
UFH Pump	Yes
UFH Valve	Yes
UFH Actuators	Yes
Programmer	-
RAD Valve	-
HW Valve	-



230V on OR & L when a UFH zone calls for heat.

If no valve is fitted, GR & OR must be linked out.

UFH10ZW - 10 x Underfloor Heating Zones

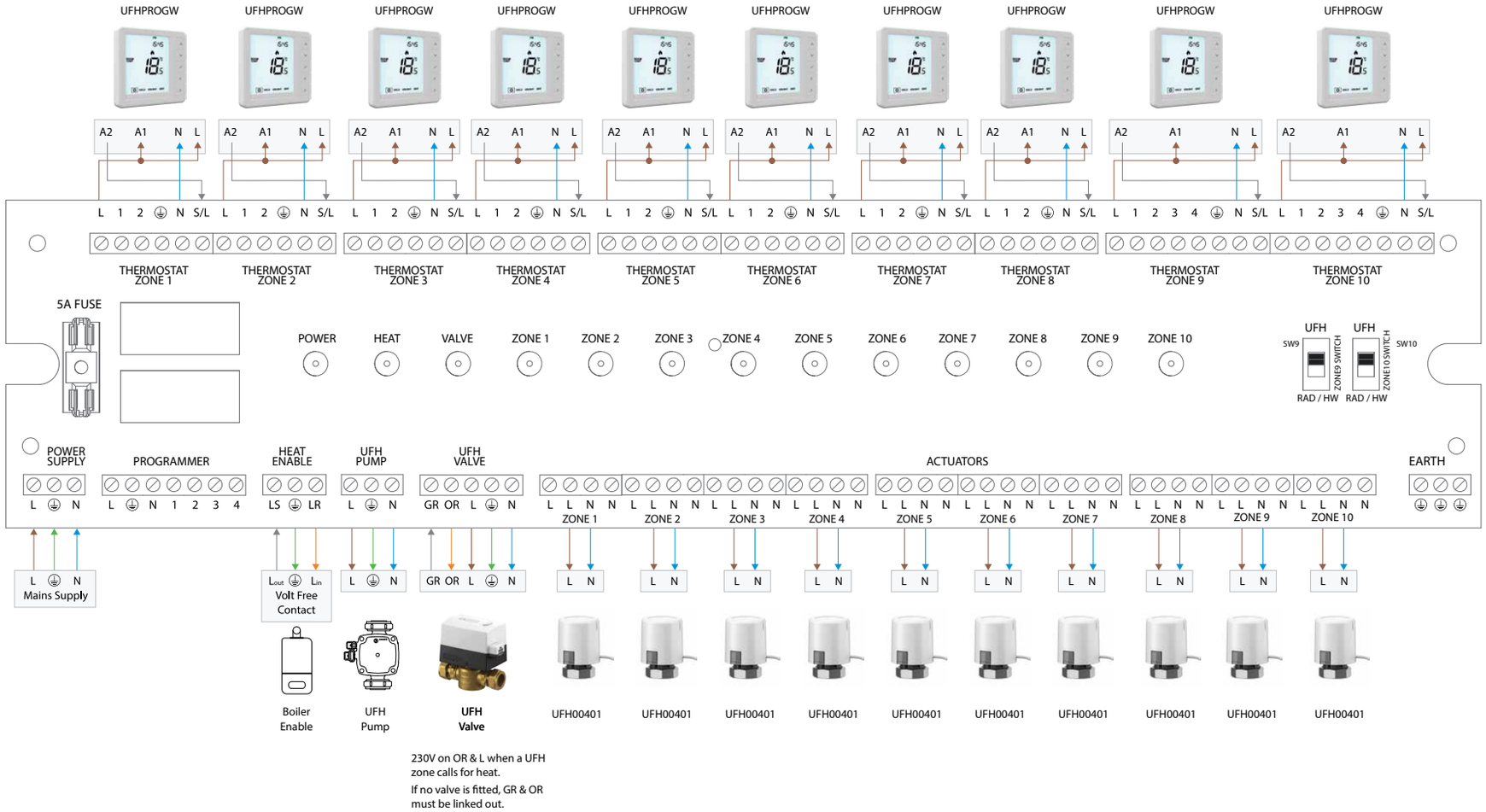
c/w Non - Programmable Digital Thermostat
Mains Powered.



UFHPROGW

Note: Please refer to individual thermostat wiring diagrams.

CONTROLS	INSTALLED
UFH Pump	Yes
UFH Valve	Yes
UFH Actuators	Yes
Programmer	-
RAD Valve	-
HW Valve	-



UFH10ZW - 10 x Underfloor Heating Zones

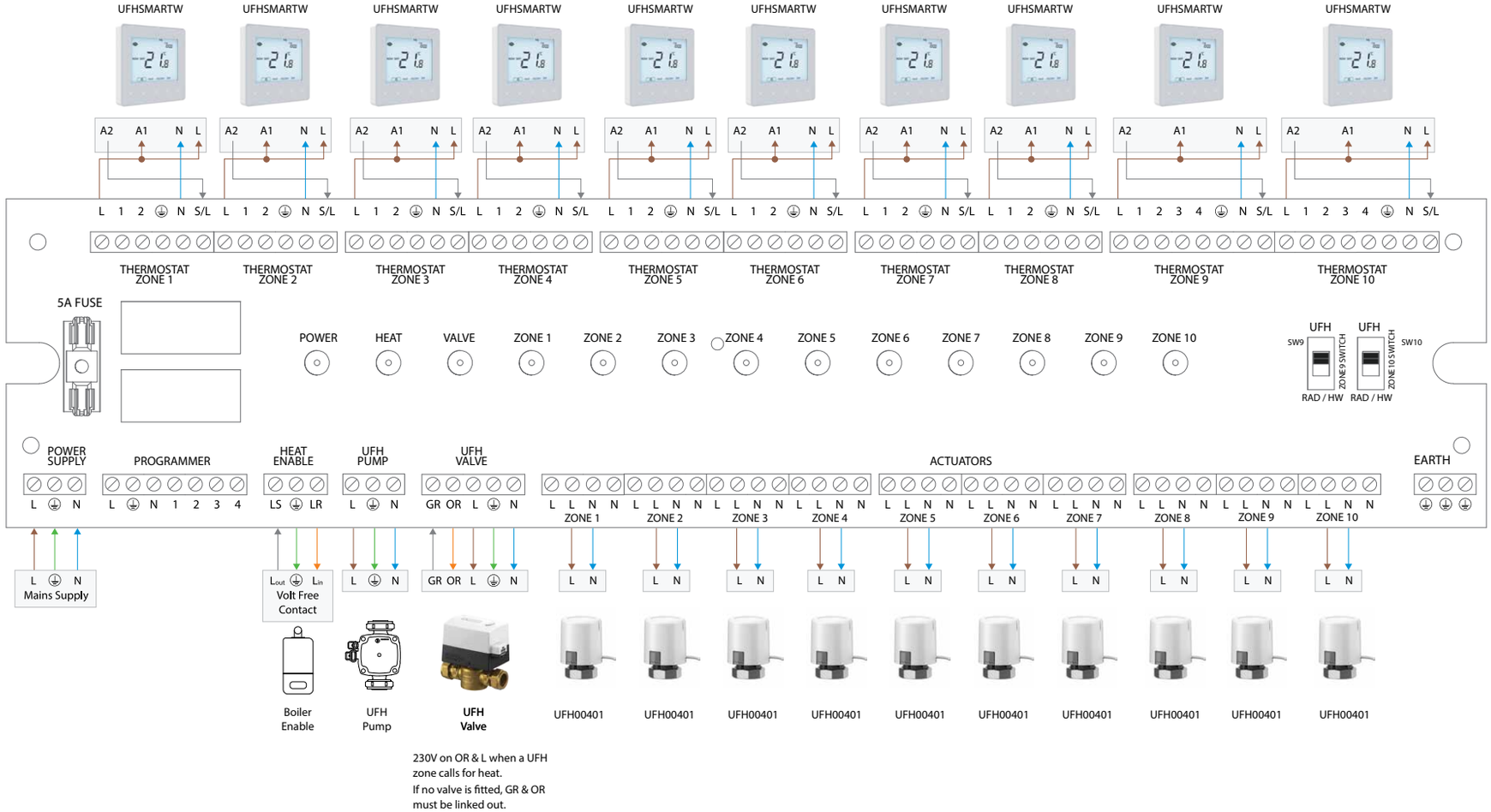
c/w Programmable Digital Thermostat
Mains Powered.



UFHSMARTW

Note: Please refer to individual thermostat wiring diagrams.

CONTROLS	INSTALLED
UFH Pump	Yes
UFH Valve	Yes
UFH Actuators	Yes
Programmer	-
RAD Valve	-
HW Valve	-
App Enabled	Yes (When used with UFHWIFIHUBW)??



UFH10ZW - 10 x Underfloor Heating Zones

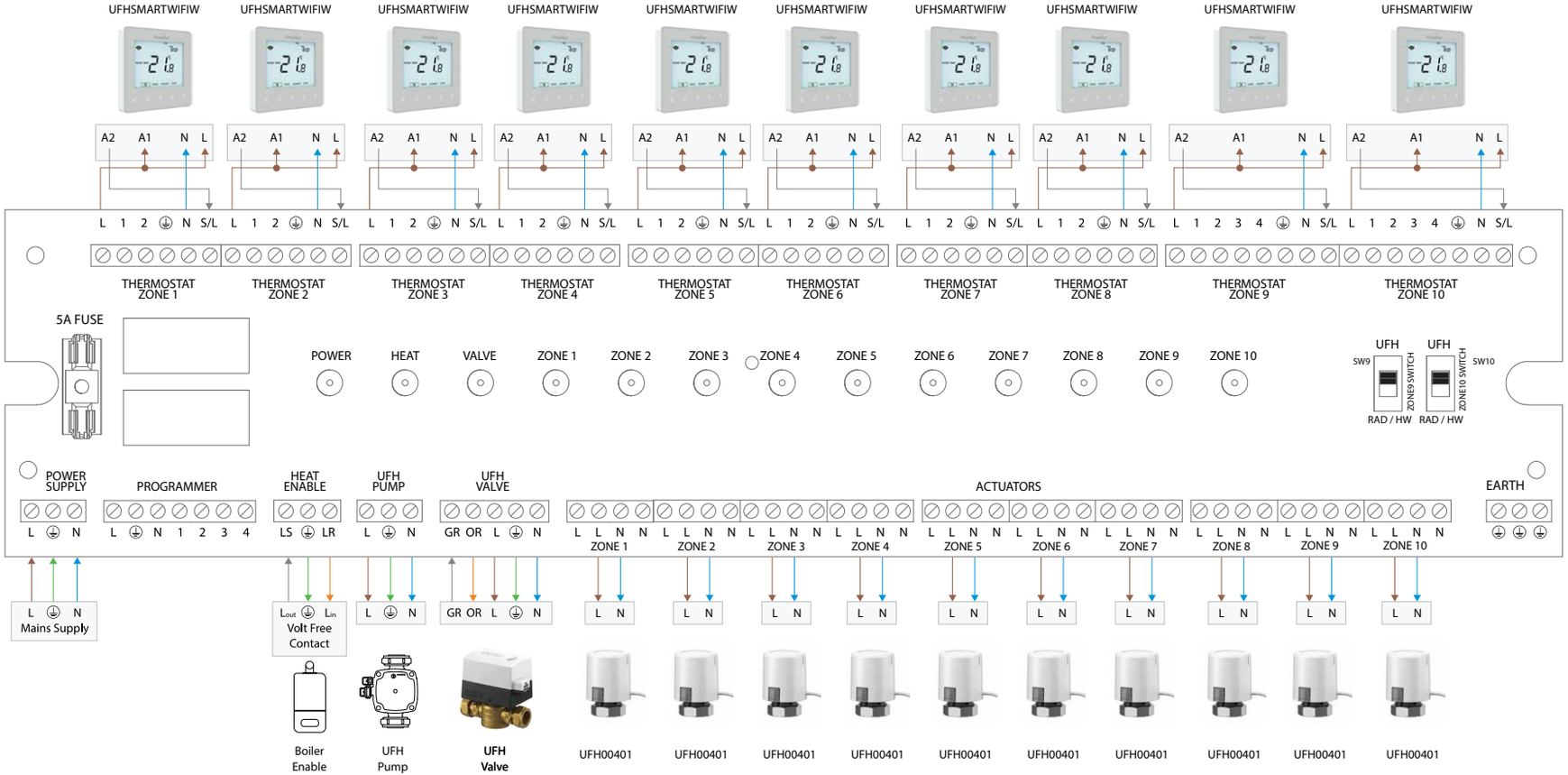
c/w Programmable Digital Room Thermostat
Mains Powered.



UFHSMARTWIFIW

Note: Please refer to individual thermostat wiring diagrams.

CONTROLS	INSTALLED
UFH Pump	Yes
UFH Valve	Yes
UFH Actuators	Yes
Programmer	-
RAD Valve	-
HW Valve	-
App Enabled	Yes



230V on OR & L when a UFH zone calls for heat.

If no valve is fitted, GR & OR must be linked out.

UFH10ZW - 10 x Underfloor Heating Zones

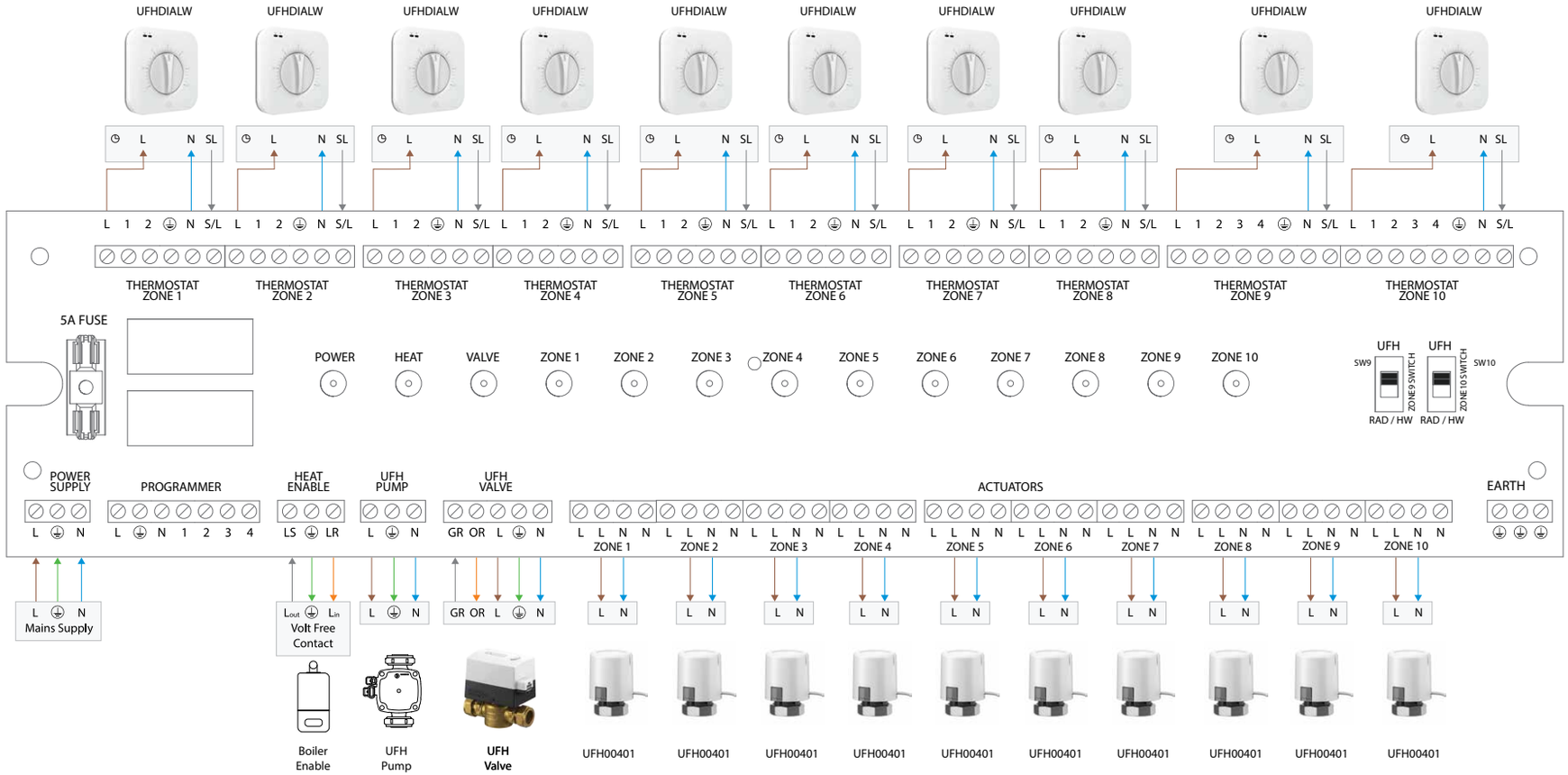
c/w Non Programmable Digital Thermostat
Mains Powered.



UFHDIALW

Note: Please refer to individual thermostat wiring diagrams.

CONTROLS	INSTALLED
UFH Pump	Yes
UFH Valve	Yes
UFH Actuators	Yes
Programmer	-
RAD Valve	-
HW Valve	-



UFH10ZW - 10 x Underfloor Heating Zones

c/w Programmable Digital Time Clock
with a Non Programmable Dial Thermostat.
Mains Powered.



UFHTIME4W

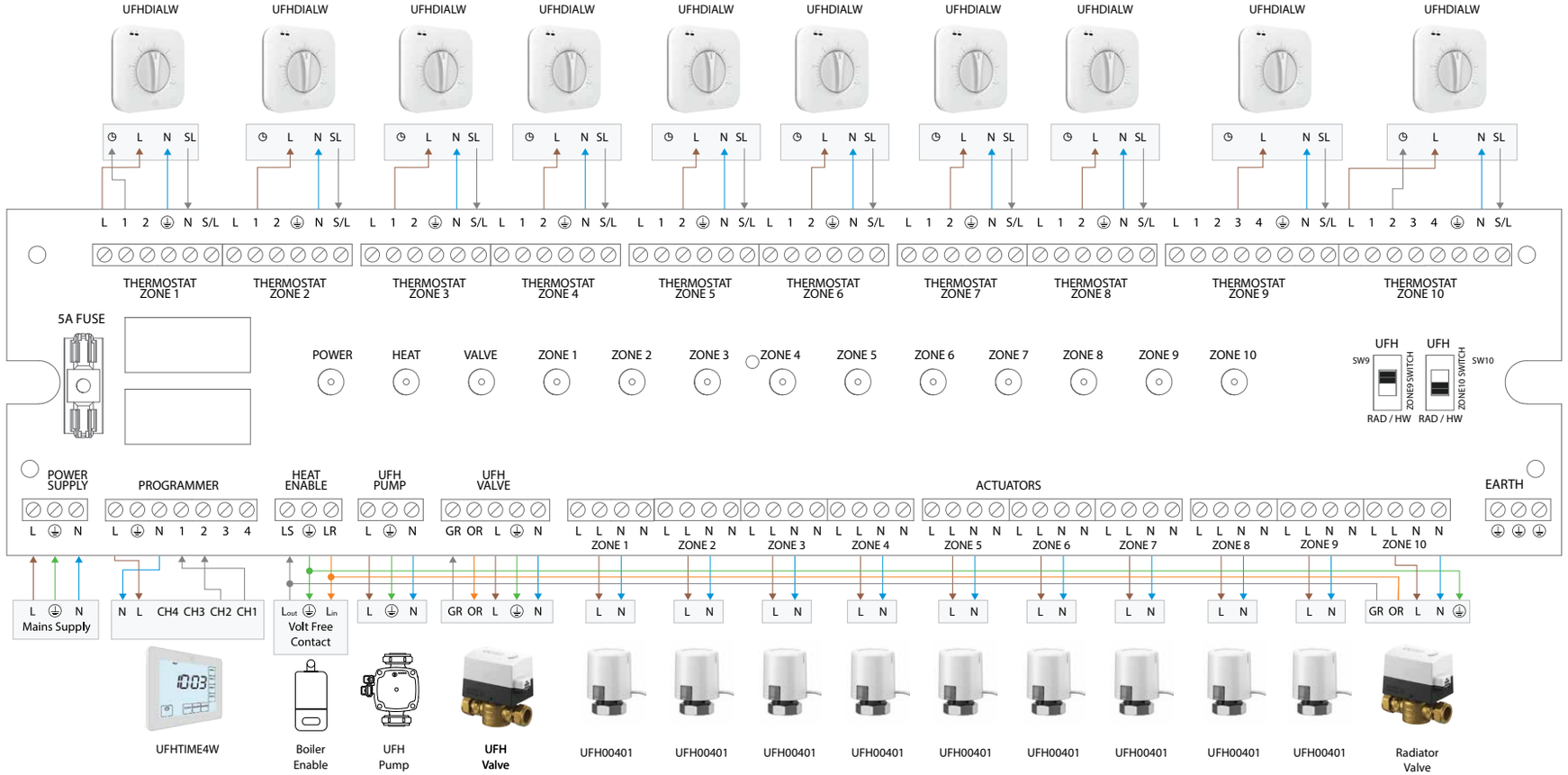
Note: Please refer to individual thermostat wiring diagrams.

CONTROLS	INSTALLED
UFH Pump	Yes
UFH Valve	Yes
UFH Actuators	Yes
Programmer / Time Clock	UFHTIME4W
RAD Valve	-
HW Valve	-

In this example:

Zone 1 on the programmer is controlling thermostats 1 to 9

Zone 2 on the programmer is controlling thermostat 10



230V on OR & L when a UFH zone calls for heat.

If no valve is fitted, GR & OR must be linked out.

Notes

Notes

Polypipe

Underfloor Heating

Want More Information?
Call our telephone support team on: 01709 772200
Or view technical specifications directly on our website:
www.polypipeufh.com

Polypipe Building Products
Broomhouse Lane Edlington
Doncaster
DN12 1ES

©2025 Polypipe
2025-11-13_UH102W_DS_PK