

UFH10-RF

RF Wiring Centre



Installation and Operation Guide



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How your Underfloor Wiring Centre works

The UFH10-RF is designed to manage & control the distribution of heat throughout the different zones of your underfloor heating system. The wiring centre provides a centralised point for installing & managing your system. Each zone can be independently controlled to meet the specific heating requirements of that area. The UFH10-RF receives information via radio frequency from your wireless thermostats & operates the actuators or valves for that zone accordingly.

The wiring centre display provides users with information about the heating system including temperature readings. The wiring centre can integrate with the GW04 gateway allowing the user to control & monitor their underfloor heating system from their smart phone or tablet. In summary the UFH10-RF acts as the brain of the underfloor heating system, coordinating communication between thermostats & actuators to achieve efficient & customisable heating in different zones of a building.

Factory Default Settings

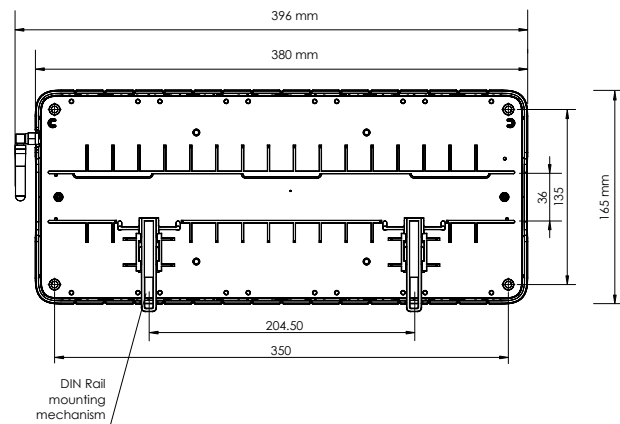
Heat Enable:	Volt Free Contacts	Pump Delay:	00:00
Program:	5/2D	Anti Seize:	Off
Mode Selection:	Auto	Hide Zones:	No
DST:	On	PIN:	Off
Keypad Lock:	Off	Backlight:	On
Switch Output:	On	Frost Protection:	On

Specifications

Power supply:	230Vac 50-60Hz	Admissible ambient humidity:	5-95%RH
Number of Zones:	10	Dimensions:	396 x 165 x 55 mm
Power Supply Indication:	Yes	Heat Enable contact rating:	3(1)A
Heat Enable Indication:	Yes	UFH Pump contact rating:	3(1)A
Zone 1 to Zone 10 Indication:	Yes	IP rating:	IP20
Ambient temperature:	0...45°C	Max. No. of actuators per zone	4
		Max. Permissible Load	5A Resistive

Mounting and Installation

1. Remove the UFH10-RF from its packaging.
2. The UFH10-RF 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.



3. Ensure the UFH10-RF is installed at least 300mm from any pipe, metal or electrical device.

Wiring Centre Terminals

Power Supply

- L** 230Vac Live
- ⊕** Earth
- N** Neutral

Heat Enable (Boiler / Heat Pump On)

- LS** Live supply
- ⊕** Earth
- LR** Live return

This is a N/O (Normally Open) Volt free contact which is closed when there is a demand for heat.

Voltage applied to the terminal **LS** is applied to terminal **LR** when there is a demand for heat.

UFH Pump (Underfloor Heating Pump)

- L** 230Vac Live
- ⊕** Earth
- N** Neutral

When an underfloor heating zone calls for heat, 230V is applied 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 applied 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.

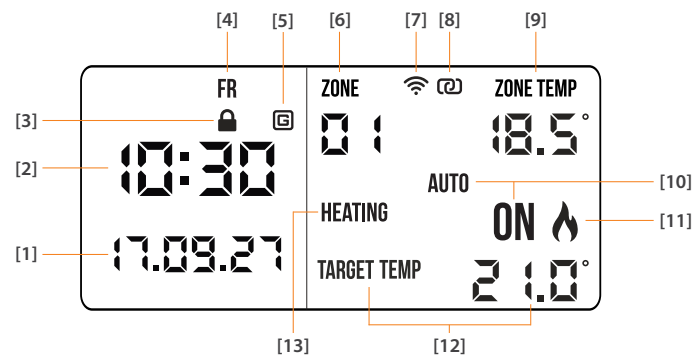
Actuators (Zone 1 to Zone 10)

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

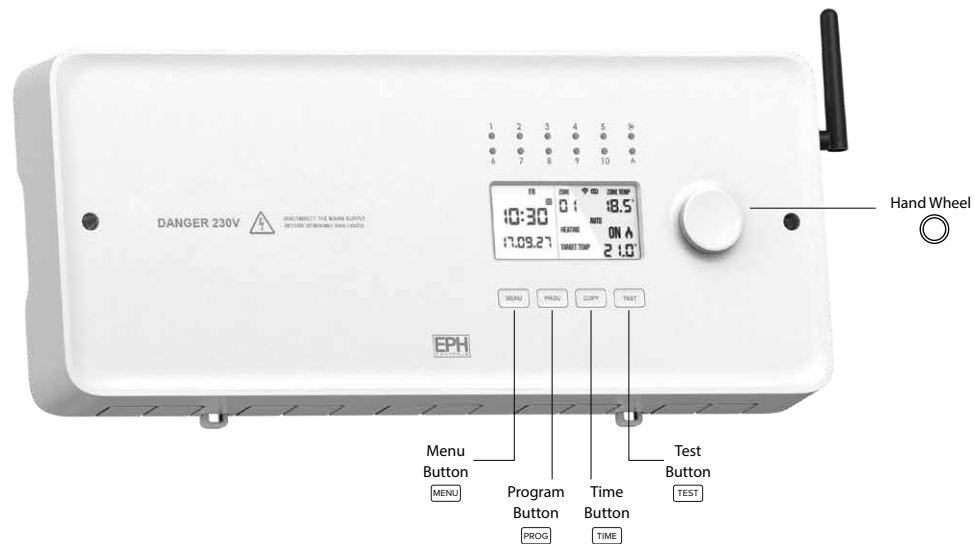
There are two terminals marked **L** & **N** for each zone.

LCD Display

- [1] Displays current date.
- [2] Displays current time.
- [3] Displays when the keypad is locked.
- [4] Displays current day of the week.
- [5] Displays gateway is connected.
- [6] Displays current zone number.
- [7] Displays when Wi-Fi is connected.
- [8] Displays when RF thermostat connection.
- [9] Displays zone temperature.
- [10] Displays current mode.
- [11] Displays when calling for heat.
- [12] Displays target temperature.
- [13] Displays zone title.



Button Description



UFH10-RF



RF Wiring Centre Operating Instructions

Mode Selection AUTO

There are four modes available for selection.

AUTO Each zone operates up to three ON/OFF periods per day (P1, P2 & P3).

ALL DAY Each zone operates one ON/OFF period per day.
This operates from the first ON time to the third OFF time.

ON The zone is permanently ON.

OFF The zone is permanently OFF.

To change the mode of a zone to AUTO, ALL DAY, ON or OFF.

Rotate  to the zone you wish to change the mode.

Press  on the zone and the **current mode** will flash.

Rotate  to select between AUTO, ALL DAY, ON or OFF modes.

Press  to confirm your selection.

Programming Modes

This wiring centre has the following programming modes.

5/2 Day mode Programming Monday to Friday as one block and Saturday and Sunday as a 2nd block.

7 Day mode Programming all 7 days individually.

24 Hour mode Programming all 7 days as one block.

Note: See P03 Setting the time and date instructions on page 7.

Factory Program Settings 5/2d

5/2 Day						
	P1 ON	P1 OFF	P2 ON	P2 OFF	P3 ON	P3 OFF
Mon-Fri	06:30	08:30	12:00	12:00	16:30	22:30
Sat-Sun	07:30	10:00	12:00	12:00	17:00	23:00
7 Day						
	P1 ON	P1 OFF	P2 ON	P2 OFF	P3 ON	P3 OFF
All 7 days	06:30	08:30	12:00	12:00	16:30	22:30
24 Hour						
	P1 ON	P1 OFF	P2 ON	P2 OFF	P3 ON	P3 OFF
Everyday	06:30	08:30	12:00	12:00	16:30	22:30

Adjusting the Program Settings in 5/2 Day Mode

To set programs for all zones.

Press . 'PROG' will appear solid on the screen. Programming for Monday to Friday is now selected. 'ALL' will be flashing. Press  to select ALL. Continue this process to adjust the ON and OFF times for Tuesday to Sunday. (This allows you to set the same programs across all zones at once)

'P1 On' will appear solid on the screen

Use  to set the P1 ON time for Monday.

Press .

'OFF' will appear solid on the screen.

Use  to set the P1 OFF time.

Press  to confirm.

'P2 On' will appear solid on the screen.

Use  to set the P2 ON time.

Press .

'OFF' will appear solid on the screen.

Use  to set the P2 OFF time.

Press  to confirm.

'P3 On' will appear solid on the screen.

Use  to set the P3 ON time.

Press .

'OFF' will appear solid on the screen.

Use  to set the P3 OFF time.

Press  to confirm. Programming for Saturday and Sunday is now selected.

Press  to return to normal operation.

■ Adjusting the Program Settings in 5/2 Day Mode

Continued

To set programs for individual zones.

Press **PROG**, 'PROG' will appear solid on the screen.

ALL will be flashing. Rotate  to select individual zone.

The zone number will be flashing.

Press  to select the zone to be programmed.

'P1 On' will appear solid on the screen.

Use  to set the P1 ON time for Monday to Friday.

Press , 'OFF' will appear solid on the screen.

Use  to set the P1 OFF time.

Press  to confirm.

'P2 On' will appear solid on the screen.

Use  to set the P2 ON time.

Press , 'OFF' will appear solid on the screen.

Use  to set the P2 OFF time.

Press  to confirm.

'P3 On' will appear solid on the screen.

Use  to set the P3 ON time.

Press , 'OFF' will appear solid on the screen.

Use  to set the P3 OFF.

Press  to confirm.

Continue this process to adjust the ON & OFF times for Saturday to Sunday.

Press **MENU** to return to normal operation.

■ Menu Function

This menu allows the user to adjust additional functions.

Press **MENU** to access the menu.

When in the menu screen, press **MENU** to return to normal operation.

■ P01 Connecting your RF thermostats

This function allows the user to connect an RF thermostat to the UFH10-RF.

To connect an RFRV², RFRBV² or RFCV² to a UFH10-RF



RFRV²



RFRBV²



RFCV²

1. On the UFH10-RF:

Press **MENU**, 'P01 rF CON' will appear on the screen.

Press , 'RF CONNECT' will appear solid on the screen.

Rotate  to choose the zone you would like to connect to.

Press  to confirm. The zone will stop flashing and appear solid.

2. On the thermostat:

Remove the back cover & press the RF button  on the PCB

When 'r01' appears, press  to confirm the thermostat is connected.

3. On the UFH10-RF:

Rotate  to choose another zone you would like to connect to or press

MENU to return to the menu.

■ To connect a CDT2-RF to a UFH10-RF



CDT2-RF

1. On the UFH10-RF:

Press **MENU**, 'P01 rF CON' will appear on the screen.

Press , 'RF CONNECT' will appear solid on the screen.

Rotate  to choose the zone you would like to connect to.

Press  to confirm. The zone will stop flashing and appear solid.

2. On the thermostat:

Press and hold  and  together for 5 seconds.

When 'P01' appears on the screen, press  to confirm the thermostat is connected.

3. On the UFH10-RF:

Rotate  to choose another zone you would like to connect to or press

MENU to return to the menu.

■ To connect an RDT-RF to a UFH10-RF



RDT-RF

1. On the UFH10-RF:

Press **MENU**, 'P01 rF COn' will appear on the screen.

Press **○**, 'RF CONNECT' will appear solid on the screen.

Rotate **○** to choose the zone you would like to connect to.

Press **○** to confirm. The zone will stop flashing and appear solid.

2. On the thermostat:

Press and hold **⏻** and **OK** together for 5 seconds.

When 'P01' appears on the screen, press **OK** to confirm the thermostat is connected.

3. On the UFH10-RF:

Rotate **○** to choose another zone you would like to connect to or press **MENU** to return to the menu.

■ To connect a HDT-RF to a UFH10-RF



HDT-RF

1. On the UFH10-RF:

Press **MENU**, 'P01 rF COn' will appear on the screen.

Press **○**, 'RF CONNECT' will appear solid on the screen.

Rotate **○** to choose the zone you would like to connect to.

Press **○** to confirm. The zone will stop flashing and appear solid.

2. On the thermostat:

Press and hold **⏻** and **○** together for 5 seconds.

When 'P01' appears on the screen, press **○** to confirm the thermostat is connected.

3. On the UFH10-RF:

Rotate **○** to choose another zone you would like to connect to or press **MENU** to return to the menu.

■ P02 Connecting your GW04 Gateway



GW04 Gateway

This function allows the user to connect the GW04 Gateway to the UFH10-RF.

1. On the UFH10-RF:

Press **MENU**, 'P01 rF COn' will appear on the screen.

Rotate **○** clockwise until 'P02' and 'gAtE' appears on the screen.

Press **○** to confirm.

'CONNECT' will flash on the screen.

2. On the GW04 Gateway:

Press and hold RF connect button until the white RF LED begins to flash.

3. On the UFH10-RF:

When successful 'r1' and 'CONNECTED' will appear on the screen.

Press **○**.

Press **MENU** to return to the menu.

To disconnect your GW04 gateway.

On your GW04 gateway, press and hold the reset button until all LED's begin to flash. When reset successfully the white RF LED **will not** reappear.

P03 Setting the Time, Date & Programing Mode

Press .

'P01' & 'rF CON' will appear on the screen.

Rotate  clockwise until 'PO3' and 'tInE' appear on the screen.

Press  to confirm. The year will begin to flash.

Use  to set the correct year.

Press  to confirm.

The month will begin to flash.

Use  to set the correct month.

Press  to confirm. The day will begin to flash.

Use  to set the correct day.

Press  to confirm.

The hour will begin to flash.

Use  to set the correct hour.

Press  to confirm. The minute will begin to flash.

Use  to set the correct minute.

Press  to confirm.

The programming mode '5/2d' will flash on the screen.

Use  to choose between 5/2d, 24h and 7d.

Press  to confirm.

'dSt' (daylight saving time) will appear on the screen.

'On' will flash on the screen.

Use  to select ON or OFF mode.

Press  to confirm.

Press  to return to the menu.

P04 Switch Outputs ON

This function allows the user to activate the output of this zone without calling the pump or the boiler. If set to ON, the boiler and pump will activate when the actuator is enabled.

If set to OFF only the actuator will be enabled, the boiler and pump are not.

Press , 'P01' & 'rF CON' will appear on the screen.

Rotate  clockwise until 'PO4' and 'OUTpUT' appears on the screen.

Press  to confirm. Using  scroll to the zone you want to change the output.

Press  on the zone to confirm.

Rotate  to change from ON to OFF.

Press  to confirm. You can now scroll to another zone if required.

Press  to return to the menu.

P05 Pump Delay 00:00

This function allows the user to delay the pump activating for a pre-determined time to allow time for the valves to open. The pump delay can be set from 1 – 5 minutes.

'P01' & 'rF CON' will appear on the screen.

Rotate  clockwise until 'PO5' and 'dELAY' appear on the screen.

Press  to confirm.

'00:00' will flash on the screen.

Rotate  to select between 00:00 minutes and 00:05 minutes.

Press  to confirm.

Press  to return to the menu.

P06 Anti-Seize OFF

This function allows the user to activate each output on the 1st day of each month at 12:00. It will open and close the output twice without calling the boiler.

Press .

'P01 & rF CON' will appear on the screen.

Rotate  clockwise until 'PO6' and 'SEIZE' appears on the screen.

Press  to confirm.

Rotate  to change from OFF to ON.

Press  to confirm.

Press  to return to the menu.

P07 Hiding Zones NO

This function allows the user to hide the unused zones from the main display.

Press .

'P01 & rF CON' will appear on the screen.

Rotate  clockwise until 'PO7' and 'hIdE' appears on the screen.

Press  to confirm.

Using  scroll to the zone you want to hide.

Press  on the zone to confirm.

Rotate  to change from NO to YES.

Press  to confirm.

You can now scroll to another zone and hide it if required.

Press  to return to the menu.

P08 PIN OFF

This function allows the user to put a PIN lock on the UFH10-RF.

To Activate the PIN:

Press . 'P01 & rF CON' will appear on the screen.

Rotate  clockwise until 'P08' and 'PIN' appears on the screen.

Press  to confirm. 'Off' will appear on the screen.

Rotate  to change from OFF to ON.

Press  to confirm. '0000' will flash.

Rotate  to set value from 0 to 9 for the first digit.

Press  to move to the next PIN digit.

When the last digit of the PIN is set, press  to continue.

You will now need to verify the PIN. You will have 1 chance to confirm the PIN.

When the PIN is verified the PIN lock is activated. If the verification PIN is entered incorrectly, you will be returned to the main screen.

When the PIN lock is active the  will flash every second on the screen.

Note: When the UFH10-RF is PIN locked, pressing  will take the user to the PIN unlock screen. If the PIN is unlocked it will automatically reactivate if there is no button is pressed for 2 minutes.

To Unlock the PIN

Press . 'UNLOCK' will appear on the screen. '0000' will flash on the screen.

Rotate  to set the value from 0 to 9 for the first digit.

Press  to move to the next PIN digit.

When the last digit of the PIN is set.

Press . The PIN is now unlocked.

If a PIN has been unlocked on the wiring centre, it will automatically reactivate if there is no button pressed for 2 minutes.

To Deactivate the PIN:

Press . 'P01 & rF CON' will appear on the screen.

Rotate  clockwise until 'P08' and 'PIN' appears on the screen.

Press  to confirm. 'On' will appear on the screen.

Rotate  to change from ON to OFF.

Press  to confirm. You will be prompted to enter the PIN code before it can be deactivated. '0000' will flash.

Use  to set value from 0 to 9 for the first digit.

Press  to move to the next PIN digit. When the last digit of the PIN is set,

Press . The Pin is now disabled.

Press  to return to the menu.

P09 Holiday Function

This function allows the user to switch off their underfloor heating by defining a start date and an end date. Throughout this period, all thermostats will default to 5°C.

'P01 & rF CON' will appear on the screen.

Rotate  clockwise until 'P09' and 'HOL' appears on the screen.

Press  to confirm. 'HOLIDAY FROM', the date and time will appear on the screen. The 'year' will begin to flash. Use  to adjust the year.

Press  to confirm. Use  to adjust the month.

Press  to confirm. Use  to set the adjust the day.

Press  to confirm. Use  to adjust the hour.

Press  to confirm.

'HOLIDAY TO', the date and time will appear on the screen.

The 'year' will begin to flash. Use  to adjust the year.

Press  to confirm. Use  to adjust the month.

Press  to confirm. Use  to set the adjust the day.

Press  to confirm. Use  to adjust the correct hour.

Press  to confirm.

The UFH10-RF will switch all zones to OFF during this selected period

To cancel the HOLIDAY, press .

The UFH10-RF will return to the normal operation when a holiday has finished or been canceled.

Press  to return to the menu.

■ P10 Backlight function ON

This function allows the user to choose between 3 different backlight modes, ON, OFF & AUTO.

AUTO Backlight stays on for 10 seconds when any button is pressed.

ON Backlight is permanently On.

OFF Backlight is permanently Off.

Press . 'P01 & rF COn' will appear on the screen.

Rotate  clockwise until 'P10' and 'bL' appears on the screen.

Press  to confirm.

Rotate  to change between ON, OFF & Auto.

Press  to confirm.

Press  to return to the menu.

■ P11 Frost Protection OFF

Frost protection is built into the UFH10-RF, it is prefixed at 5°C and is not adjustable. Frost protection will be set OFF as default.

Press .

'P01 & rF COn' will appear on the screen.

Rotate  clockwise until 'P11' and 'FrOSt' appears on the screen.

Press  to confirm.

Rotate  to change from OFF to ON.

Press  to confirm.

The ❄️ will appear on the screen when activated and will flash if the frost protection is activated.

Press  to return to the menu.

■ P12 Disconnecting your RF Thermostat

To disconnect all zones:

Press .

'P01 & rF COn' will appear on the screen.

Rotate  clockwise until 'P12' and 'dISCOn' appears on the screen.

Press  to confirm.

'ALL' will be flashing on the screen.

Press  to select ALL.

'n0' will flash on the screen.

Rotate  to select 'yES'.

Press  to confirm disconnection.

This will disconnect all connected zones at once.

To disconnect an individual zones:

Press .

'P01 & rF COn' will appear on the screen.

Rotate  clockwise until 'P12' and 'dISCOn' appears on the screen.

Press  to confirm.

'ALL' will be flashing on the screen.

Rotate  to select individual zone.

Press  to select zone to be disconnected.

'n0' will flash on the screen.

Rotate  to select 'yES'.

Press  to confirm disconnection.

This zone is now disconnected.

Press  to return to the menu.

■ P13 Reset

To reset the UFH10-RF to factory programs.

Press .

'P01 & rF COn' will appear on the screen.

Rotate  clockwise until 'P13' and 'rESEt' appears on the screen.

Press  to confirm.

Rotate  to change from 'nO' to 'yES'.

Press  to confirm.

The UFH10-RF will restart and revert to its factory program settings.

The time and date will not be reset.

Press  to return to the menu.

■ Activating Setback on your RFRB^{V2} Thermostat

On the RF thermostat press and hold  and  until the screen displays 'nOr & P01'.

Rotate  until 'sb' & 'P06' appear on the screen.

Press  to confirm.

Rotate  to change from OFF to ON.

Using , choose your setback temperature between 0 -10°C.

When the UFH10-RF is timed off it will subtract the setback temperature from the target temperature. If the temperature drops below the setback temperature the UFH10-RF will activate the heating to maintain the setback temperature.

Test Function

This function allows the user to activate a zone directly from the UFH10-RF without calling the pump or the boiler.

To Test all zones:

Press **TEST**.

'ALL' will be flashing on the screen.

Press  to confirm.

All the zones will activate.

To Test individual zones:

Press **TEST**.

'ALL' will be flashing on the screen.

Rotate  to select an individual zone.

Press  to activate the zone.

Rotate  to select another zone.

Press  to activate the next zone.

Press **MENU** to return to normal operation.

Locking the Keypad

To lock the UFH10-RF, press  for 10 seconds.

 will appear on the screen. The buttons are now disabled.

To unlock the UFH10-RF, press  for 10 seconds.

 will disappear from the screen. The buttons are now enabled.

Press **MENU** to return to normal operation.

Copy Function

Note: 7 day mode must be selected. See P03 setting the time and date instructions on Page 7.

To Copy a zone schedule to other heating zones.

Press **PROG**.

Press **COPY**.

'COPY' and 'FROM' will appear on the screen.

'ZONE' will be displayed solid on the screen.

The zone number will be flashing.

Rotate  to select which zone schedule you want to copy from.

Press  to confirm.

'COPY' and 'TO' will appear on the screen.

Rotate  to the zones you want to copy the schedule to.

The zone number will flash.

Press  to copy schedule to that zone.

The zone number will display solid.

Rotate  to skip a zone.

Zones which are displayed solid have been copied.

Zones which are flashing have not been copied.

Press **MENU** to return to normal operation.

To Copy a day schedule to other days within a zone.

Press **PROG**.

Press **COPY**.

'COPY' and 'FROM' will appear on the screen.

'ZONE' will be displayed solid on the screen.

The zone number will be flashing.

Press  to confirm.

Press **COPY**.

'COPY' will appear on the screen.

The day schedule will appear on the screen.

The day to be copied will appear solid on the screen.

Rotate  clockwise to copy the program to the next day, this day will stay solid on the screen.

Rotate  anti-clockwise to skip to the next day, the skipped days will disappear from the screen.

Press  to save changes and return to main operation.

UFH10-RF - 10 x Underfloor Heating Zones

c/w RF Non-Programmable Thermostats.

Options:



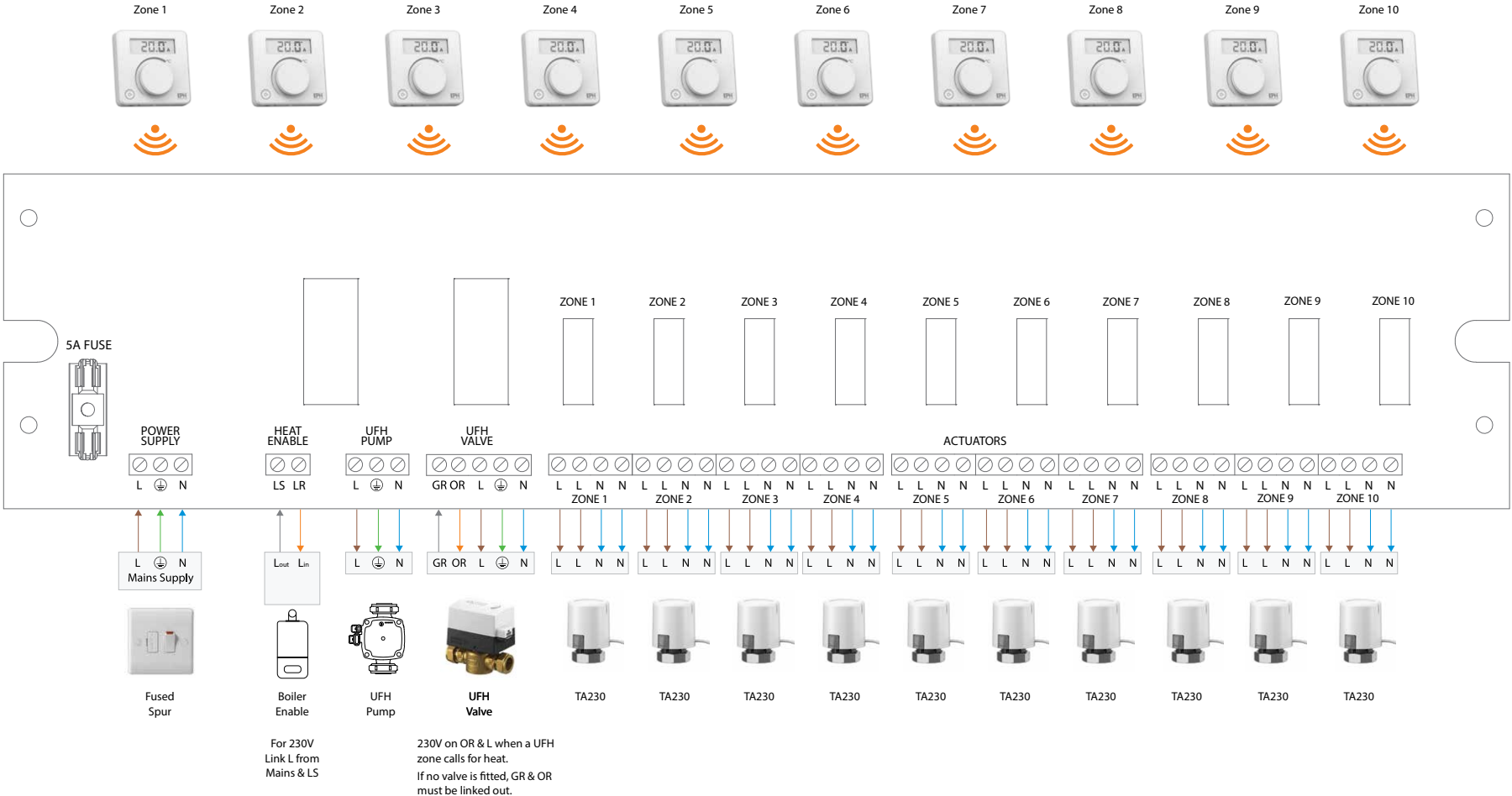
RFRBV2



RFRV2

Note: Please refer to individual thermostat instructions.

CONTROLS	INSTALLED
UFH Pump	Yes
UFH Valve	Yes
UFH Actuators	Yes
Switch Output	On



UFH10-RF - 9 x Underfloor Heating Zones - 1 x Hot Water Zone

c/w RF Non-Programmable Thermostats.

Options:



RFRB V2



RFR V2



RFC V2

Note: Please refer to individual thermostat instructions.

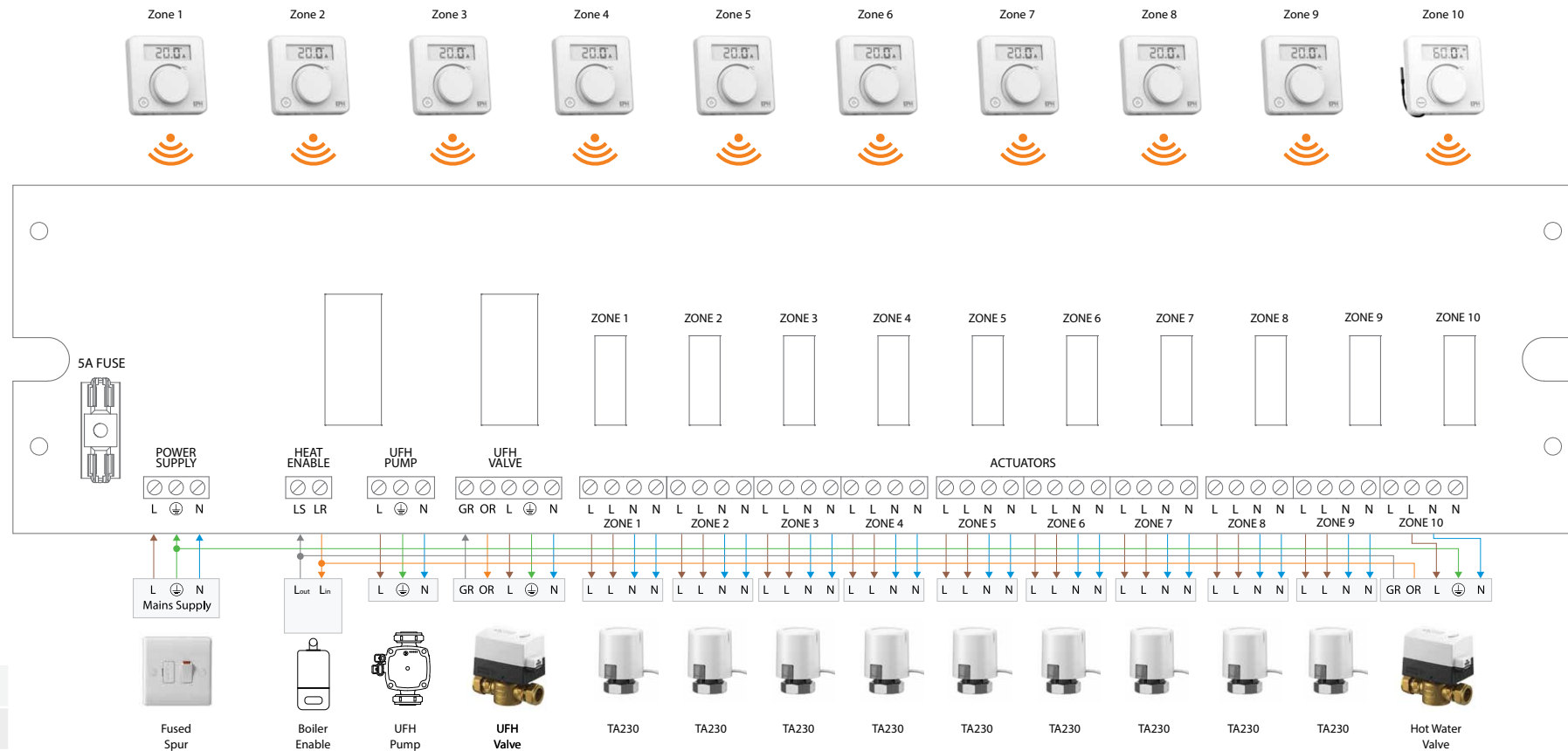
CONTROLS	INSTALLED
UFH Pump	Yes
UFH Valve	Yes
UFH Actuators	Yes

In this example:

Switch Output for Zone 1 to 9 is set to On

Switch Output for Zone 10 is set to Off

Note: See P04 Switch Outputs Instructions on Page 8.



For 230V
Link L from
Mains & LS

230V on OR & L when a UFH
zone calls for heat.
If no valve is fitted, GR & OR
must be linked out.

UFH10-RF - 10 x Underfloor Heating Zones

c/w 230V RF Non-Programmable Thermostats.

Options:



CDT2-RF



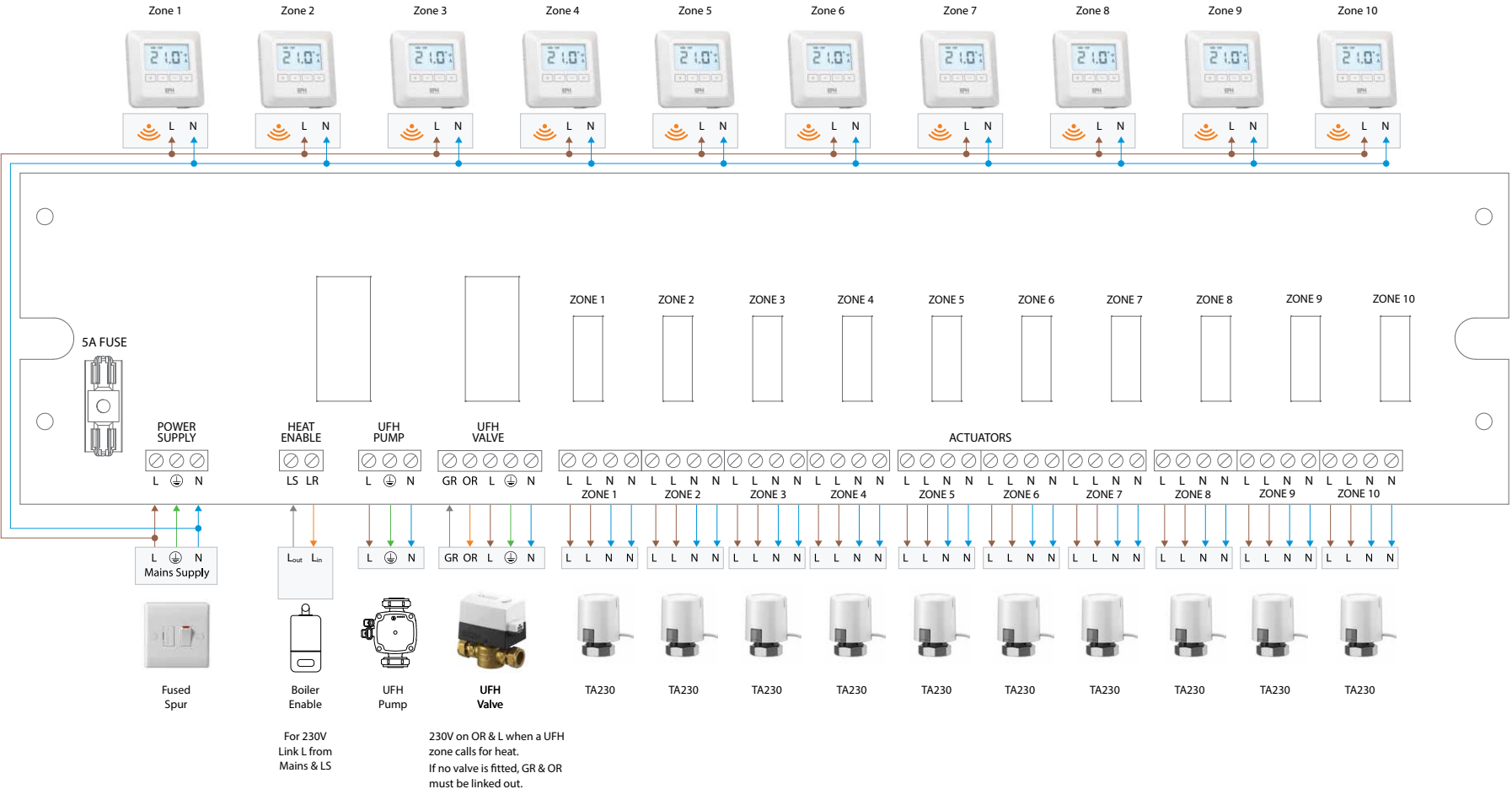
RDT-RF



HDT-RF

Note: Please refer to individual thermostat wiring diagrams.

CONTROLS	INSTALLED
UFH Pump	Yes
UFH Valve	Yes
UFH Actuators	Yes
Switch Output	On



UFH10-RF - 8 x Underfloor Heating Zones

- 1 x Radiator Zone

- 1 x Hot Water Zone

c/w RF Non- Programmable Thermostats & Hardwired Cylinder Thermostat.

Options:



RFRB^{V2}



RFR^{V2}



WRP

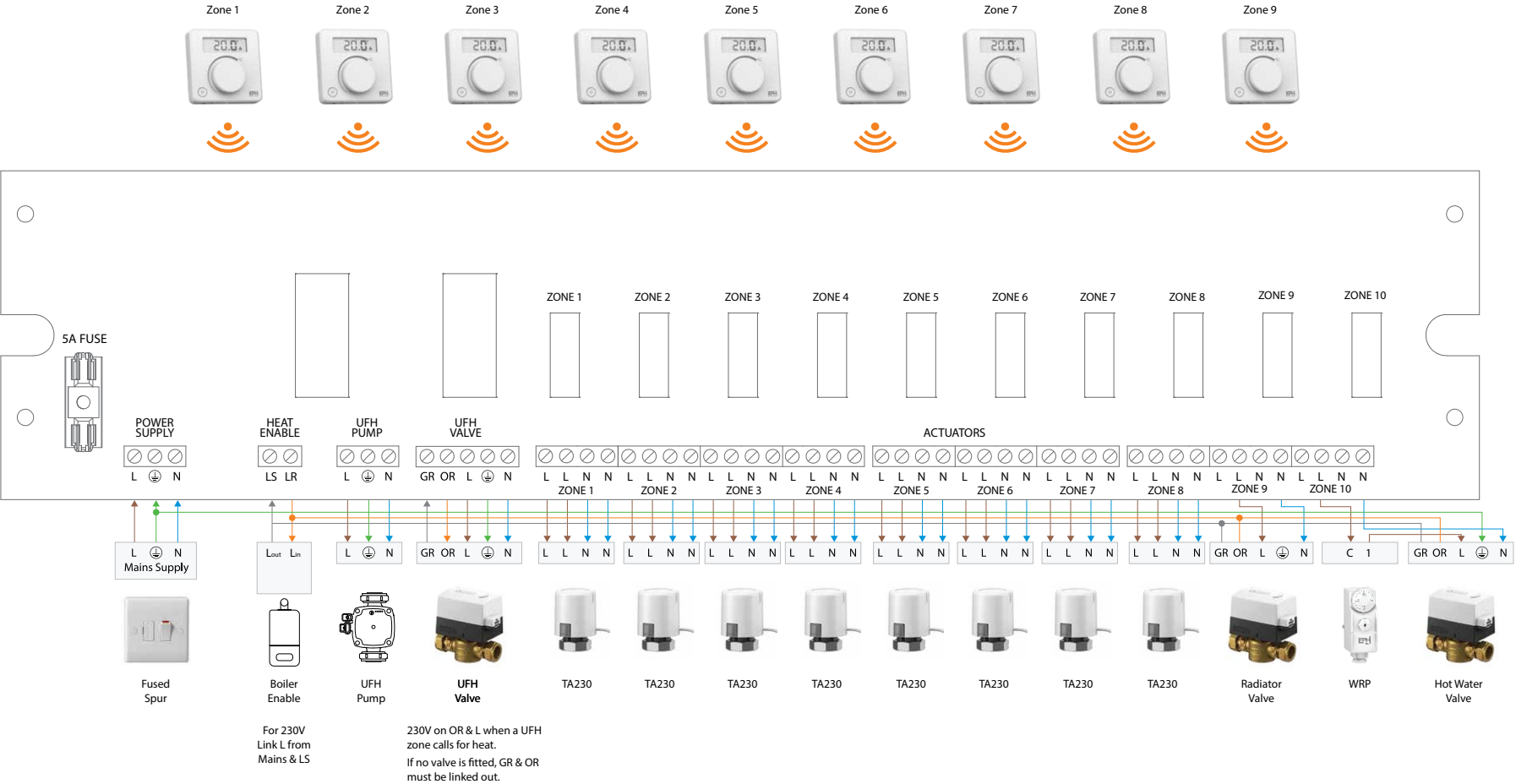
Note: Please refer to individual thermostat instructions.

CONTROLS	INSTALLED
UFH Pump	Yes
UFH Valve	Yes
UFH Actuators	Yes

In this example:

- Switch Output for Zone 1 to 8 is set to On
- Switch Output for Zone 9 & 10 is set to Off
- Zone 10 is Timed Output only

Note: See P04 Switch Outputs Instructions on Page 8



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UFH10-RF is compatible with the following EPH thermostats

RF Thermostats



RFRV2



RFCV2



RFRBV2

230V Thermostats



CDT2-RF



HDT-RF



RDT-RF

Also available from EPH Controls



UFH5



UFH10



UFH10-24

