UH8 – Installation Manual

Description
The UH8 is an 8 Zone wiring centre for use with Heatmiser 230v thermostats.
The UH8 can be used to control any actuator or valve which requires a 230v AC signal. At the same time the UH8 offers the ability to operate a boiler or other heat source through a volt free output.

Additional outputs designed for use with underfloor heating systems are also included as standard. These are the pump and valve outputs which would normally operate a manifold pump or a manifold valve.

Zone 8 can be used as an isolated radiator zone by using the UFH/RAD switch.
If the switch is set to RAD,
When zone 8 calls for heat this will provide an output to a radiator zone valve and the boiler, but WILL NOT enable the underfloor heating pump/valve output.
If the switch is set to UFH,
When Zone 8 calls for heat, this will act as an underfloor heating zone, by enabling the actuator, boiler and pump/valve outputs.
Any output which is not needed can be ignored.

Installation
The UH8 can be mounted directly to a wall using four screws or alternatively, the unit can be DIN rail mounted.

When DIN Rail mounting, you first need to insert the two clips provided on the back of the UH8, as shown in the image;
- On the back of the UH8, position the clip in the middle and slide down.
- Points A and B locate in the corresponding holes and lock into place.
- Locate the UH8 onto the DIN rail from the top.
- Pull the clip down and push the bottom of the UH8 onto the DIN rail.
- Releasing the clip will lock the UH8 in place on the DIN rail.

To remove the UH8, pull both clips down and remove from the DIN rail.
**Connections**

**Mains Supply**
Power supply into the UH4 which should be fused at 5 amps; these connections are marked:
- L = live or phase 230v AC 50/60Hz
- N = Neutral
- E = Earth

**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...8**
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 clearly marked:
- L = Live
- E = Earth
- N = Neutral

When an under-floor heating zone sends a call for heat to the UH4, the live & neutral output will supply 230v to the manifold pump.
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.

**UFH Valve**
Used for an underfloor heating manifold valve.
Connections are clearly marked:
- Gr = Grey
- Or = Orange
- L = Live
- E = Earth
- N = Neutral

When an under-floor heating zone sends a call for heat to the UH4, 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 1. 5amps, 20mm anti-surge fuse, this fuse supplies power to all 230v outputs from the board it protects the zone, pump/valve outputs.

**Wiring Centre**

**Model: UH8**

**UH8 Wiring**

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**Ratings**

- **Number of Heating Zones**: 8
- **Neon Indication**: Y
- **DIN Rail Mounting**: Y
- **Supply**: 230v AC 50Hz 1 Phase
- **Relay Load Max**: 3 Amp Resistive
- **Total Load Max**: 5 Amp Resistive
- **IP Protection**: IP20
- **Installed Dimensions (L,H,D)**: 384 x 148 x 60mm
- **Weight**: 800g

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4 5
UH8 – DS-SB & TM4 (4 Under-floor & 1 Radiator zone)

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### System Configuration

**PLEASE COMPLETE DURING INSTALLATION**

**UH8 Title:** 

<table>
<thead>
<tr>
<th>Zone</th>
<th>In Use</th>
<th>Zone Type</th>
<th>Zone Title</th>
</tr>
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<tbody>
<tr>
<td>Zone 1</td>
<td></td>
<td>Under-Floor</td>
<td></td>
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<tr>
<td>Zone 2</td>
<td></td>
<td>Radiator</td>
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<td>Zone 8</td>
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</table>

**Notes**

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**Model:** UH8
Want More Information?
Call our support team on: +44 (0)1254 669090
Or view technical specifications directly on our website:
www.heatmiser.com

Products Commonly used with the UH8 wiring centre.