Model: UH4
**UH4 – Installation Manual**

**Description**

The UH4 is an 4 Zone & Hot water wiring centre for use with Heatmiser 230v thermostats. The UH4 can be used to control any actuator or valve which requires a 230v AC signal. At the same time the UH4 offers the ability to operate a boiler or other heat source through a volt free output.

An additional output designed for use with underfloor heating systems, is also included as standard. This is the pump/valve Output, which would normally operate a manifold pump or a manifold valve.

The H/W output provides a 230v hot water enable signal to the valve, the auxiliary wires of the valve are wired to the Gr & Or terminals.

Zone 4 can be used as an isolated radiator zone by using the Yes/No switch. If the switch is set to NO; When zone 4 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 YES; When Zone 4 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 UH4 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 UH4, as shown in the image;

1. On the back of the UH4, position the clip in the middle and slide down.
2. Points A and B locate in the corresponding holes and lock into place.
3. Locate the UH4 onto the DIN rail from the top.
4. Pull the clip down and push the bottom of the UH4 onto the DIN rail.
5. Releasing the clip will lock the UH4 in place on the DIN rail.

To remove the UH4, 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…4
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.

H/W
This output is used to control a hot water valve via a cylinder thermostat:
L = Live
E = Earth
N = Neutral
Gr = Grey
Or = Orange
The auxiliary wires of the valve, usually grey & orange, are wired to the Gr & Or terminals.

Manifold Pump/Valve
Used for an underfloor heating manifold pump and or valve. 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/valve.
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.

Fuses
Fuse 1: 5amp, 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: UH4

Wiring UH4 – UH4 to neoStat – 3 x Underfloor Heating, 1 x Radiator zone & Hot Water. (Manifold Valve & Pump connections)

This equipment should be installed by an appropriately qualified/registered electrician. Fully read the instructions for proper wiring before applying power. The warranty does not cover damage from improper wiring or installation.
UH4 – Solfex 230v Thermostat Wiring

This equipment should be installed by an appropriately qualified/registered electrician. Fully read the instructions for proper wiring before applying power. The warranty does not cover damage from improper wiring or installation.

Ratings
- Number of Heating Zones: 4
- Number of Hot Water Zones: 1
- 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

NOTE
The hot-water valve live feed must be connected through the cylinder high limit thermostat.

Wiring Centre

Model: UH4
## System Configuration

**PLEASE COMPLETE DURING INSTALLATION**

<table>
<thead>
<tr>
<th>Zone</th>
<th>In Use</th>
<th>Zone Type</th>
<th>Zone Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zone 1</td>
<td></td>
<td>Under-Floor</td>
<td></td>
</tr>
<tr>
<td>Zone 2</td>
<td></td>
<td>Radiator</td>
<td></td>
</tr>
<tr>
<td>Zone 3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zone 4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hot Water</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**UH4 Title:**

---

**Notes**

---

**Model:** UH4
Want More Information?
Call our support team on: +44 (0)1772 312847
Or view technical specifications directly on our website:
www.solfex.co.uk

Products Commonly used with the UH4 wiring centre.

Slimline  NeoStat