

Introduction

Thank you for purchasing a Siemens Zone Switching System. Systems are available to control 2, 3 or 4 zones.

Features of the Zoning system include:

- Automatic spill function to ensure a zone is always open.
- Zone status indication.
- Quick connect cabling.
- Automatic over current protection with fault indication
- 24Volt power supply enabling quick, cost effective and safe installation.
- Touch panel labels to help customise the panel to your house design.

Contents of Kit

- 1 x Touch panel.
- 1 x Touch panel overlay.
- 1 x Relay module.
- 1 x 240 VAC/24 VAC Plug Pack Transformers.
- Instructions.
- Bag containing screws + RJ12 connectors.
- Zone labels sheet.

Installation

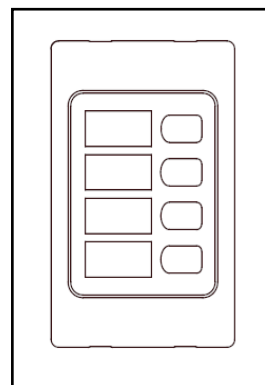
The Siemens Zoning System has been designed for simple installation and comprises of the following components:

Touch Panel

The touch panel should be located in a central position either flush mounted to the wall or mounted on a standard 15mm mounting block.

As power cables can interfere with the operation of the system, the touch panel should be located at least 250mm away from any 240VAC cabling.

IMPORTANT NOTE: When installing touch panel, please ensure that the buttons are positioned on the right-hand side. (See below.)



Fitting of Zone Labels and Touch Panel Overlay

- 1) Remove self-adhesive zone labels from perforated sheet and insert into recesses to represent each of the active zones.
- 2) Remove touch panel overlay from adhesive backing and place over the top of the zone labels.

Relay Module

The relay module should be mounted within approx. 1 meter of a power point, in a central location close to the Fan Coil Unit, generally in the roof or floor space. (i.e. out of the weather).

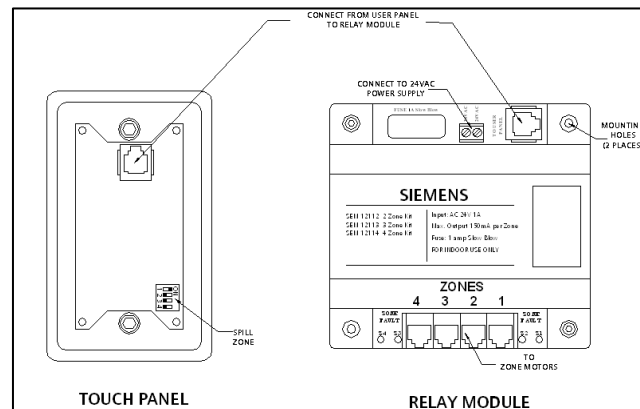
Two screws are provided to mount the Relay box through the bottom left and top right holes. Alternatively, the Relay Module can be mounted on a din rail.

Interconnection Cable

A single 6 core RJ12 cable must be run between the touch panel and the Relay Module. This cable should not exceed 25m in length.

To ensure correct operation, make sure connectors are crimped the same way at each end for the interconnection cable. RJ12 connectors are provided for this purpose.

The cable from the user panel must be connected into the RJ12 socket marked "TO USER PANEL".



Power Supply

The Relay Module should be mounted within approx. 1 metre of a power point. Connect the two black wires into the 24VAC terminal block of the Relay Module.

Zone Motors

Depending on the model selected, up to 4 zone motors can be connected to the Relay Module via the 6 core RJ12 cables. These cables should not exceed 25m in length.

If the plugs are connected to the cable in the **SAME** orientation at each end, the motors will rotate **COUNTER CLOCKWISE** to open the damper barrel.

If the plugs are connected to the cable in the **OPPOSITE** orientation at each end, the motors will rotate **CLOCKWISE** to open the damper barrel.

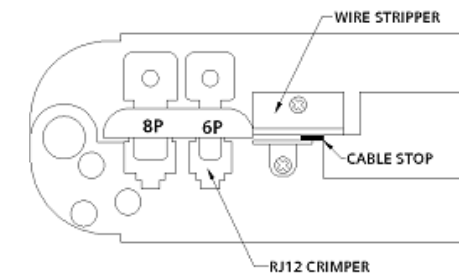
Spill Zones

The Siemens Zoning System has an automatic spill feature that ensures at least one zone is always open. By default, all systems are set to spill to Zone 1.

The spill zone will be the lowest numbered zone which has a switch in the 'on' position (e.g. If Switches 2 and 3 are on; Zone 2 will be the spill Zone).

| Model | Switch Style | Zone Selection |
|-------------|--------------|--|
| 2 Zone | | The 2 zone module has a link that can be moved to select Zone 1 as the spill zone or to have no spill zone at all. |
| 3 or 4 Zone | | The 3 and 4 zone modules have a series of DIP switches which can be set to determine which zone is the spill zone. |

Crimping RJ12 Connections



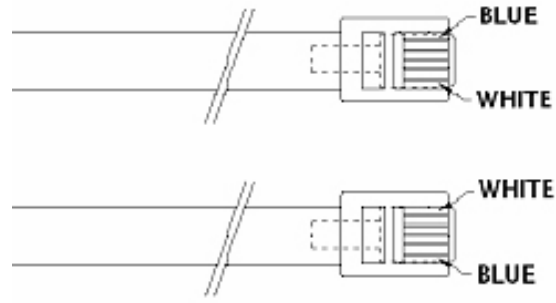
To simplify installation and service, the Siemens Zoning System utilises RJ12 connectors and cables. Construction of these cables is simple if the following procedure is adhered to.

- (a) Cut cable to desired length ensuring that the cable is cut squarely. Utilise the cutter section of the crimper. Insert the cable into the stripper section of the crimper until it hits the stop provided (approximately 6.5mm in).

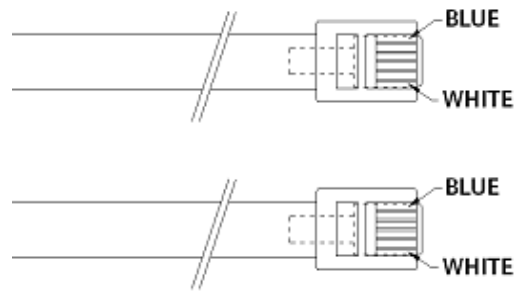
Squeeze the handles of the crimper in one hand whilst firmly holding the cable in the other and pull the tool away to remove 6.5mm of the outer sheath. Check that the ends of the 6 inner cores are all the same length. If not, trim cores ensuring at least 6mm of each core is still exposed.

- (b) Insert the cable into the RJ12 plug. Check that cable has gone fully into the connector and all cores are fully in position.
- (c) Insert the connector into the crimper being careful not to displace the wire. Squeeze the handles firmly to ensure each of the 6 gold contacts crimp to the cores.
- (d) Repeat the above procedure for the other end of the cable, ensuring the correct orientation of the cores to correspond to the opening direction of the damper barrel being used.

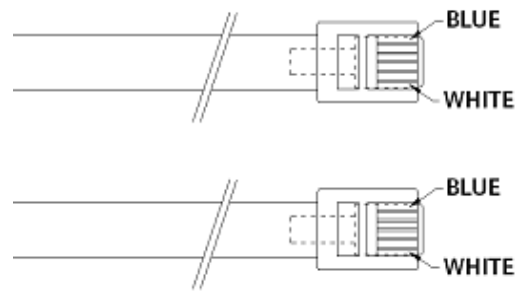
ZONE MOTOR CABLE FOR DAMPER BARRELS THAT OPEN IN THE CLOCKWISE DIRECTION



ZONE MOTOR CABLE FOR DAMPER BARRELS THAT OPEN IN THE COUNTER CLOCKWISE DIRECTION



INTERCONNECTION CABLE ORIENTATION (Must be as shown below)



Trouble Shooting

Some common faults are listed in the table below:

| Symptom | Potential Cause/s | Suggested Solution |
|--|---|---|
| Touch panel doesn't operate | Interconnection cables connected up the wrong way. | Re-wire connecting cable |
| Green LED's will not come on when the buttons are pushed | Fault in cable between Touch Panel and Relay Module | Re-wire connecting cable |
| | Fuse blown | Find reason for blown fuse (short), repair and replace fuse with 1 amp Slow blow. |
| | Power supply not switched on | Plug Power supply into mains and turn on |
| Zone Motors drive in wrong direction | Plugs on cables to zone motors reversed on one end to the other. | Re-terminate in correct orientation |
| Red Fault LED lit on Relay module | Excessive current being drawn on the zone indicated due to : <ul style="list-style-type: none"> - shorted cable - faulty zone motor - too many motors attached to one zone | Repair cable Replace zone motor Reduce number of motors on the indicated zone |
| Motor drives in one direction only | Broken wires in cable | Repair Cable |
| Touch Panel does not operate and one zone Motor pulsing | A zone motor has been fitted to the user Panel Connection point on the Zoning Module | Remove and connect to Correct Zone. |