

## Introduction

- Thank you for purchasing a Siemens Colour Touch Screen. Features of the Touch Screen Zoning Control include:
- Automatic spill function to ensure at least one zone is always open.
  - Zone status indication.
  - Quick connect cabling.
  - Favourites and Manual Zone control functions.
  - Seven Day, four periods per day programmable operation.
  - Individually programmable naming for zones and favourites.
  - Installer details displayed on Help Screen
  - Optional Variable Opening Zones and Outside Temperature indication

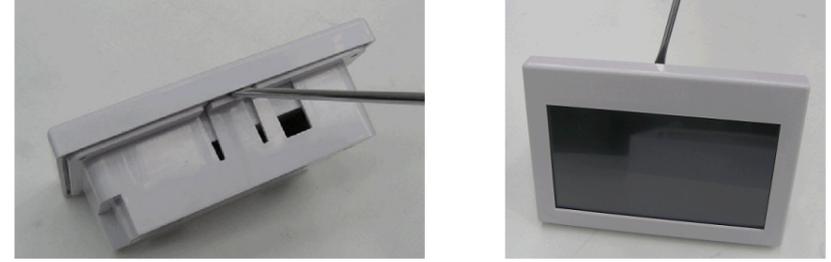
## Kit Components

The touch screen is supplied as a complete unit with a mounting base for Solid Walls and mounting arms for Plasterboard/Drywall hollow walls. The accessory plastic bag holds 2 mounting arms, 2 screws for the mounting arms and 4 screws for mounting to the solid wall base.

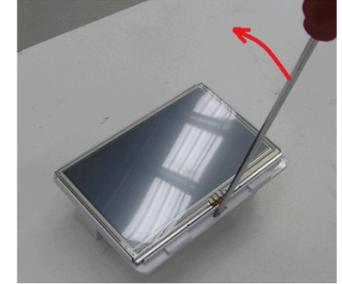
## Installation

The Touch Screen should be located in a central position flush mounted to the wall.

The casings can be disassembled using a flat-head screwdriver as shown



To remove the screen base from the mounting panel use a flat-head screwdriver in the slot provided; Some care is necessary to avoid damaging the screen. (Note the screen stays on the plastic base in the photo, we are removing the screen base from the screen back.)



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

### For Flush Mounting on a Plasterboard or Drywall type wall

The first step is to trace the "hole" shape onto the wall. To do this you can use the Solid wall Mounting Base as a template.

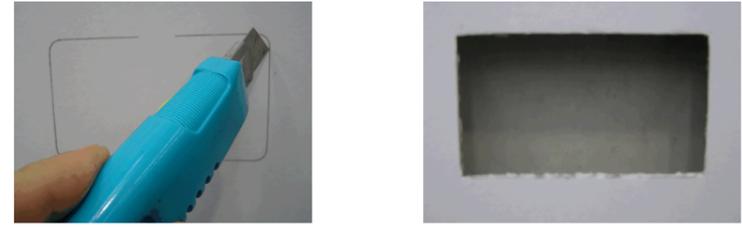
Trace around the inside as shown except where the circled cut outs are. Just go straight across these cut-outs.



The trace looks like this (colour in the gaps in the trace)



Cut out the shape. Note the corners can be cut out square

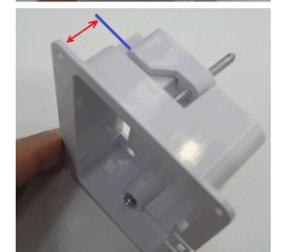


Note the shape cut appears slightly out of square, however this is due to the picture angle

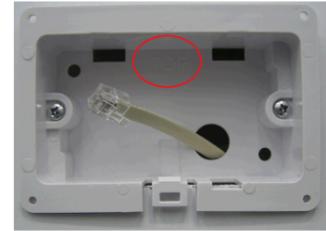
For a standard thickness wall the mounting arms are fitted as shown:



Continue to screw the mounting arms down until the clamp distance is slightly bigger than the wall thickness



Now if you turn the screw anti clockwise the mounting arms will fold back into the Screen back so that it will fit into the wall cut-out



Feed the communications cable through the rear hole, fit the Screen Back into the wall (Note that the TOP marking should be at the top), then tighten the screws. Your mounting frame is now ready to accept the screen.

Then when the screws are tightened they will swing out to mount to the wall.



Connect communications cable to rear of screen, and clip screen into cover mounted in wall.

Finish installation by clipping screen surround over the screen (clip top edge in place first).

### For Mounting on a Solid Wall

For mounting on a solid wall where it is too difficult to fit the screen into the wall you need to use the Solid Wall Mounting Base provided. Fit the Screen Back to the Solid Wall Mounting Base. Use 4 small screws provided.



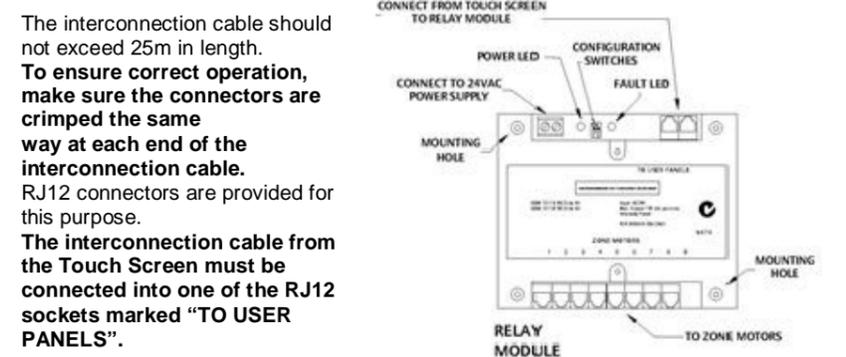
This assembly can then be screwed to the wall using the 2 holes shown below. (Note the orientation of the TOP)



Once this is mounted the Screen Base & Top Cover can be clipped on in the same manner as the flush mount.

### Interconnection Cable

A single six core RJ12 cable must be run between the Touch Screen and the Relay Module. This cable should not exceed 25m in length. If a second panel is being installed, the cable from the second panel can be connected into the alternative RJ12 socket in either the Touch Screen or the Relay Module.



The interconnection cable should not exceed 25m in length. **To ensure correct operation, make sure the connectors are crimped the same way at each end of the interconnection cable.** RJ12 connectors are provided for this purpose. **The interconnection cable from the Touch Screen must be connected into one of the RJ12 sockets marked "TO USER PANELS".**

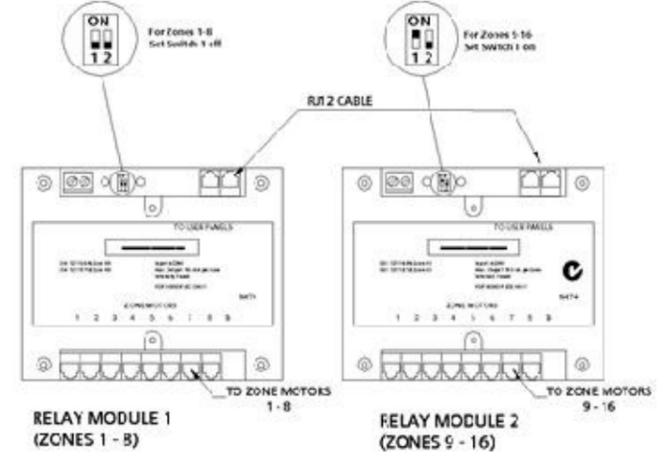
### Relay Module/s

(See *Variable Opening Module Installation Guide* if applicable for mixed relay module use rules, programming options and set up)

The Relay Module/s should be mounted within approximately one metre of a power point. This should be in a central location close to the Fan Coil Unit, generally in the roof or floor space. (i.e. out of the weather).

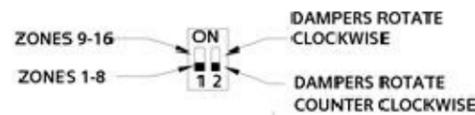
Relay module(s) should firmly affixed to an appropriate surface

Up to 16 zones can be fitted to one Touch Screen. For more than eight zones, two Relay Modules are required. These boxes should be connected to each other via an RJ12 cable. This cable should be connected to the RJ12 sockets marked "TO USER PANELS".



For correct operation, the first relay module (Zones 1 – 8) must have Switch 1 OFF and the second relay box (Zones 9 – 16) must have Switch 1 ON.

The relay box/s can be configured to always rotate the Zone motors clockwise or counter clockwise (default for Siemens Zone Motors). Switch 2 should be off for counter clockwise operation



### Zone Motors

Depending on the model selected, up to 8 zone motors can be connected to each Relay Module via the six core RJ12 cables. These cables should not exceed 25m in length.

### Optional Outside Temperature Sensor

Some relay modules have the option to fit an outside temperature sensor (two terminals are labelled accordingly on the module). If fitted the Siemens colour touch screen will automatically sense and display outside sensor value. Siemens recommend the Siemens QAC2030 (NTC 10k) Sensor and Housing.

### Installer Menu

Installer setup is accessed by pressing **MENU**, **NEXT** and then pressing **Installer Settings**.

A password is then required. Press **the installer code provided by your supplier**, and then **DONE**.

### Number of Zones

Press **Set number of zones** to define the number of zones. Use the **+** or **-** buttons to set the correct number and then **Done**.

### Additional Set Up Features

A range of set up features is available in Installer set up. Whilst in Installer set up, follow the screen prompts for adjusting various features.

### Extra Screens

**As two Touch Screens can be installed in one system, you need to configure the Touch Screen as either the Master or Extra Screens.**

Press **Master/Extra selection** to define the panel type. Press **Master** or **Extra** to set the correct configuration and then **Done**.

**NOTE:** If two Touch Screens are connected as Master, operation will be erratic.

### Zone Names (Note this feature is now incorporated into User Menu)

Each individual zone may be named. There is a list of common names or you may enter a name directly. Names can be up to 12 Characters long.

To modify zone names, press the Zone you want to name and then either press **Select from List** or **Edit Name**.

If **Select from List** is chosen, find the name you want and then select it.

If **Edit Name** is chosen, use the **DEL** key to remove the current name and then manually type in the name you desire. Press **Done** when you have finished entering the name. We recommend that you use a blunt object like a pen cap when entering zone names.

**NOTE:** If an EXTRA Touch Screen is fitted, the zones must be named on it also.

### Spill Zones

The Siemens Touch Panel has an automatic spill feature that can ensure that at least one zone is always open. By default, all Touch Panels are set to spill to Zone 1.

There is no limit to the number of spill zones but the number should be limited as it can cause confusion to the user.

(e.g. If Z1, Z2 & Z4 are selected the unit will recognize that if all zones are switched off, the control should activate Z1, Z2 and Z3.

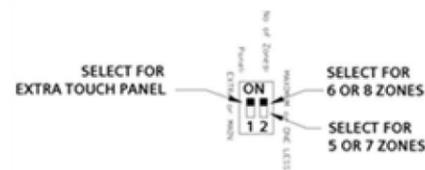
**NOTE:** The spill feature also applies to Favourites

### Using a Touch Panel as the Extra Panel

A Touch Panel can be connected to a system as the extra panel if desired.

The panel must be configured as the extra (cannot be the Main Panel) and it will only operate on up to eight zones.

The spill zone switch settings on the Touch panel are ignored. The spill zone is configured on the Touch Screen.



## Menu Programming Options

A range of settings are available by pressing the **MENU** in the home screen. As well as programming features, the standby screen can be configured for different features and various programming features

### Set Clock

In **MENU**, press **NEXT**, then **Set Clock**. Press **+**, **-** keys to adjust time. When correct, press **DONE** to save your set time.

### Timed Program

In **MENU**, press **Configure timers**. The timer program allows you to automatically configure which zones are open during what time of the day, with four programmable periods available each day (Wake, Leave, Return, Sleep). Pressing the DAY and period allows you to program what zones you want operating during that period. **NOTE:** You are setting the start time for each period. This period ends when the next period begins. Press **Copy previous day** and the previous day of the week program will be automatically copied to the displayed day.

Your timer can be configured and set up to operate automatically whenever your air conditioner is activated.

### Favourites Selection

The Favourites section allows you to setup four different zone configurations.

It is strongly recommended this feature is configured at time of installation.

Typical configurations may be Living Areas, Bedrooms, All Zones, etc.

The Favourites selection screen is accessed by pressing the FAVOURITES button if you are in the Manual Screen.

Favourites are configured through the MENU screen.

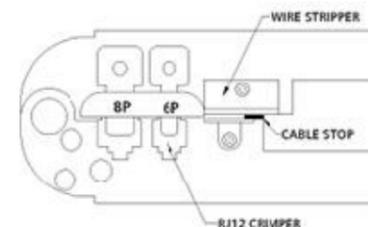
To configure, select the favourite, name it and then select which zones should be on when the favourite is activated.

**NOTE:** If an EXTRA Touch Screen is fitted, the Favourites must be named on it also. The zones related to that favourite, are only defined on the MAIN Touch Screen.

More details on the use and programming of your Colour Touch Screen are contained in the User Guide.

## 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.

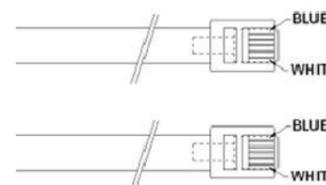


- Cut cable to desired length ensuring that the cable is cut squarely. Utilise the cutter section of the crimping tool. Insert the cable into the stripper section of the crimping tool until it hits the stop provided (approximately 6.5mm in).

Squeeze the handles of the crimping tool 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.

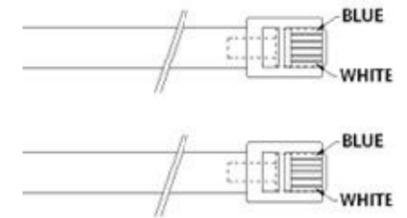
- Insert the cable into the RJ12 plug. Check that cable has gone fully into the connector and all cores are fully in position.
- Insert the connector into the crimping tool being careful not to displace the wire. Squeeze the handles firmly to ensure each of the 6 gold contacts crimp to the cores.
- Repeat 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.

**INTERCONNECTION CABLE ORIENTATION** (Must be as shown)



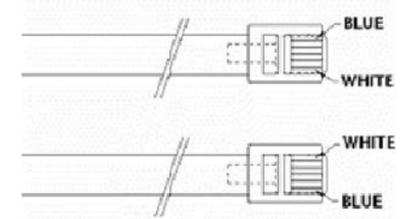
### ZONE MOTOR CABLE FOR DAMPER BARRELS

Zone cables should be wired as above. If all motors then operate in the wrong direction, reverse the motor direction by changing SW2 on the relay module



### ZONE MOTOR CABLE FOR A DAMPER BARREL THAT IS REQUIRED TO OPERATE IN THE OPPOSITE DIRECTION

The rotation direction of all motors can be reversed though use of SW2. If an individual motor is required to operate opposite to all other motors, assemble the cable as shown below.



## Trouble Shooting

The Touch Screen will display certain faults. If **FAULT** appears on the display, press it to enter the fault menu.

Some common faults are listed in the table below:

Symptom	Potential Cause/s	Suggested Solution
Touch Screen is Blank	Fault in cable between Touch Screen and Relay Module  Power supply not switched on	Re-wire connecting cable  Plug power supply into mains and turn on
Touch Screen will not operate relays (Communication Failure)	Interconnection cables connected up the wrong way.  Fault in cable between Touch Panel and Relay Module	Re-wire connecting cable  Re-wire connecting cable
Touch Screen will not operate relays and no error displayed	All Touch Screens configured as EXTRA	Set one Touch screen as MAIN
Zone Motors drive in wrong direction	Plugs on cables to zone motors reversed on one end to the other.  SW2 on relay box in incorrect position	Re-terminate in correct orientation  Change SW2 position
Motor drives in one direction only	Broken wires in cable	Repair Cable
Motor Faults Red Fault LED flashing on Relay module	Excessive current being drawn on a zone: - 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
Zones 1 - 3 Short Displayed (2 Flashes on Relay Box)	Zones 1, 2 or 3 have a fault	
Zones 4 - 6 Short Displayed (3 Flashes on Relay Module)	Zones 4, 5, 6 have a fault	
Zones 7 - 8 Short Displayed (4 Flashes on Relay Module)	Zones 7 or 8 have a fault	