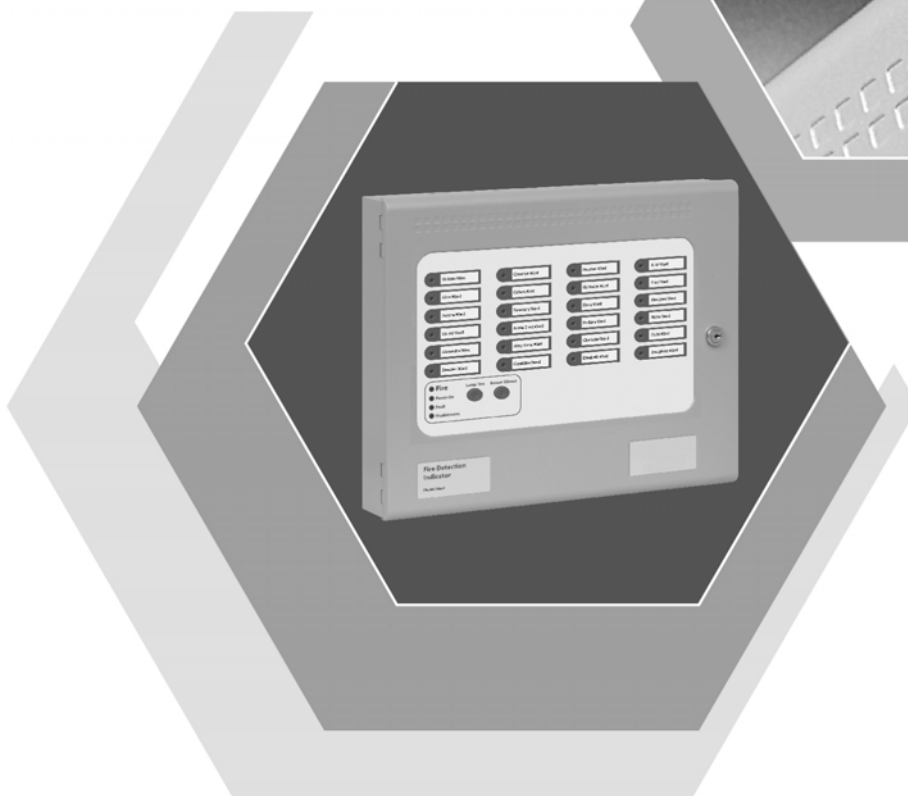
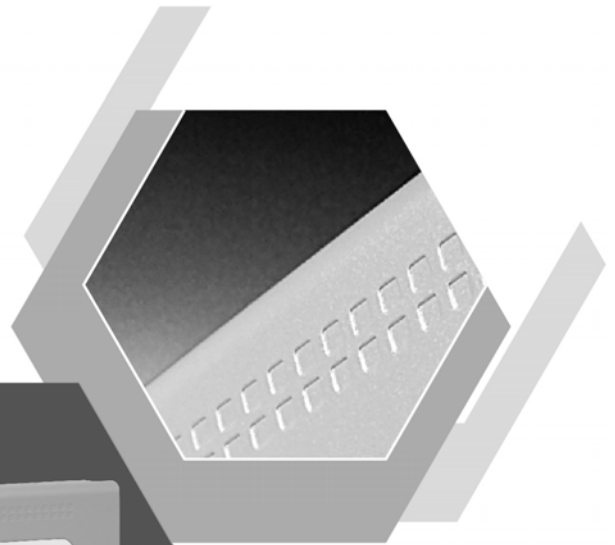
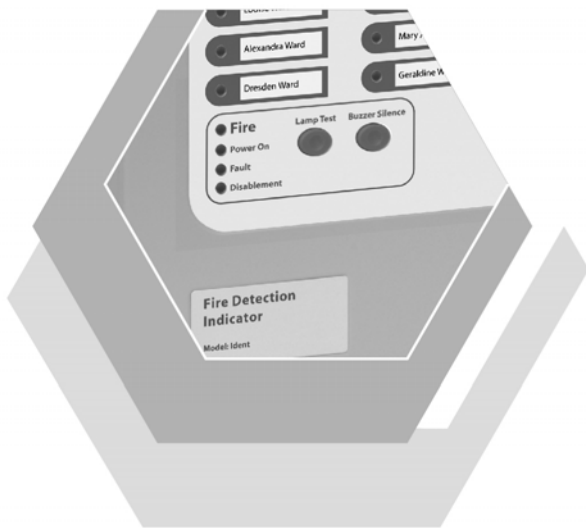


# Syncro Ident

## LED Indicator Panel

### Installation, Commissioning and Operating Manual

Man-1126 Issue 03 June 2013



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## 1. General

The Syncro Ident is an LED indicator panel with 8 or 24 programmable LED indications that is compatible with the Syncro or Syncro AS ancillary serial bus.

The unit is powered by the auxiliary 24V output of a Syncro or Syncro AS fire panel or may be powered from a separate 24V DC power source.

Indicator legends can be customised using the slide in card labels that are supplied with the unit and these can be printed with the desired text using an easy to use template.

The LED indications are fully programmable as per all other outputs on the Syncro system making the Syncro Ident suitable for a wide range of applications that require indications remote from the fire panel.

An audible indication is provided on the unit via the internal buzzer which can be silenced using the front panel mounted Buzzer Silence control.

A Lamp Test control is also provided which allows all indicators to be illuminated simultaneously to check their operation.

Common indicators are provided to show Power On (green), Fire (red), Fault (yellow) and Disablement (yellow).

Note: Syncro Ident is NOT compatible with the Syncro XT, Syncro Lite, Syncro AS Lite or older Syncro panels with firmware V4.xx or older installed.

## 2. Electrical ratings

Power Input – 18 to 30V DC – 300 milliamps max.

Data Input – RS485 Syncro ancillary serial bus protocol

Quiescent current – 8 way version 10 milliamps, 24 way version 25 milliamps (at 24V DC)

Alarm current – 8 way version 30 milliamps, 24 way version 90 milliamps

## 3. Installation

This product should be installed, commissioned and maintained by trained service personnel in accordance with the following:

- (i) Regulations for electrical equipment in buildings specific to the country of use
- (ii) Codes of practice
- (iii) Statutory requirements
- (iv) Any instructions specifically advised by the manufacturer

## 4. Environmental Considerations

Syncro Ident units are mounted in steel enclosures with an ingress protection rating of IP30.

The operating temperature range should not exceed -5°C to +40°C ( $\pm 2^\circ$ ).

Humidity levels should not exceed 95% (non-condensing).

## 5. Mounting

The unit should be mounted on a dry, flat surface and in a level position such that the enclosure is not distorted.

Screws or bolts of a minimum of 5mm diameter and suitable wall fixings must be used to mount the enclosure in all mounting positions.

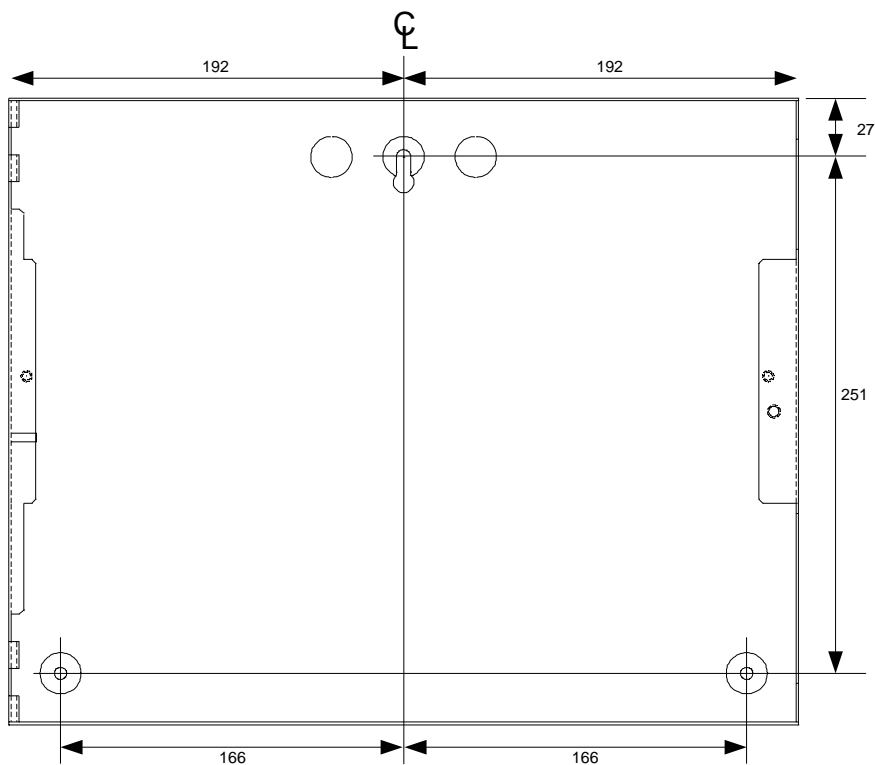
It should be positioned in an accessible place as agreed with the end user.

The unit should not be mounted in another enclosure or near sources of excessive heat.

Cables should be connected using suitable, metal cable glands fitted to the knockouts provided. If additional cable entry points are required, all swarf and debris caused by drilling of additional cable entries must be cleared before power is applied to the unit.

Remove the front plate by removing the two M4 screws holding it in position and store the front plate and screws safely for re-fitting later.

If required, the front door may also be removed by detaching the push on earth wire and tapping out the two hinge pins holding the door to the enclosure. The door and hinge pins should be stored securely for re-fitting later.



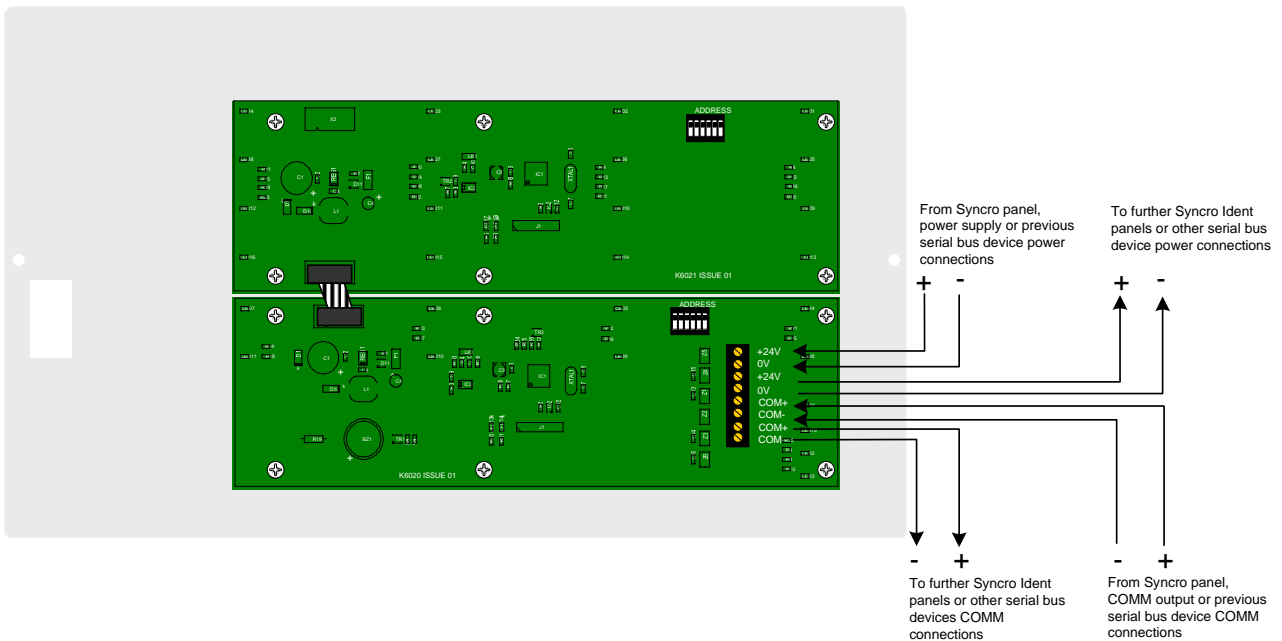
Enclosure fixing centres

## 6. Connecting to the terminals

The Syncro Ident requires a nominal 24V DC power supply (18V to 30V) which must be connected to the terminals marked +24V (+) and 0V (-) at the terminal block marked X1 on the K6020 PCB. A second set of +24V and 0V terminals are provided for extending the 24V DC supply to further Syncro Ident panels or other equipment if required.

To communicate with a Syncro or Syncro AS fire panel, the COM+ and COM- terminals must be connected to the corresponding terminals at a Syncro or Syncro AS fire panel or another unit that is connected to the ancillary serial bus of a Syncro or Syncro AS fire panel.

It is most important that the polarity of the connections is observed and carefully checked before applying power to the unit.

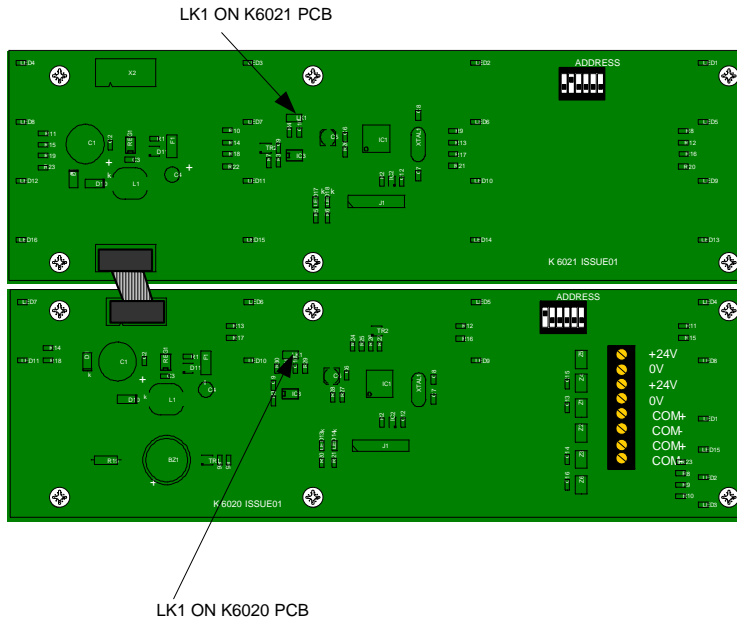


The power cable should be suitably sized to ensure that the voltage drop is not below the minimum operating voltage of 18V DC. A 1mm<sup>2</sup> cable is suitable for powering up to 16 Syncro Ident panels however if the power supply is also being used to power other equipment, the load of the other equipment must be taken into consideration when calculating voltage drop.

The cable connected to the COMM terminals should be a twisted pair cable suitable for RS485 communications. The COMM cable can be up to 1200 metres in total length.

## 7. RS485 terminating link

For correction operation of the RS485 communications bus the last device connected to the bus should have a terminating link fitted. If the Syncro Ident is the last device fitted to the RS485 bus, it should have the RS485 termination jumper fitted. This is LK1 on the K6020 PCB for 8 way versions and LK1 on the K6021 CB for 24 way versions.



## 8. Setting the address

To enable the Syncro or Syncro AS panels to identify devices connected to the ancillary serial bus, each device must be allocated an address from 1 to 32.

Syncro Ident panels are supplied from the factory with the address switch on the K6020 board (indicators 1 to 8) set to 1 (1000) and the address of the K6021 board if fitted (indicators 9 to 24) set to 2 (01000).

If these addresses are already being used by other devices on the serial bus or need to be changed for any other reason then they can be set to other addresses as shown below.

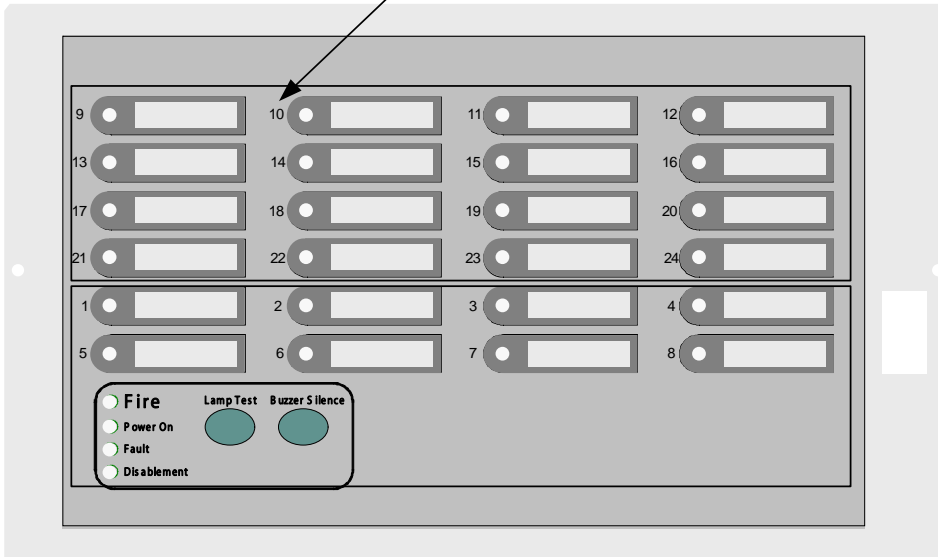


Note: Changing the settings of the address switches must be done with the 24V power removed from the Syncro Ident panel. If the Syncro or Syncro AS has already detected devices at the addresses that are going to be changed then it will show that these devices are missing when the addresses have changed and will need to be re-configured by removing the devices from the configuration and adding the new ones. This can be done via the Loop Explorer configuration programme.

## 9. LED numbering

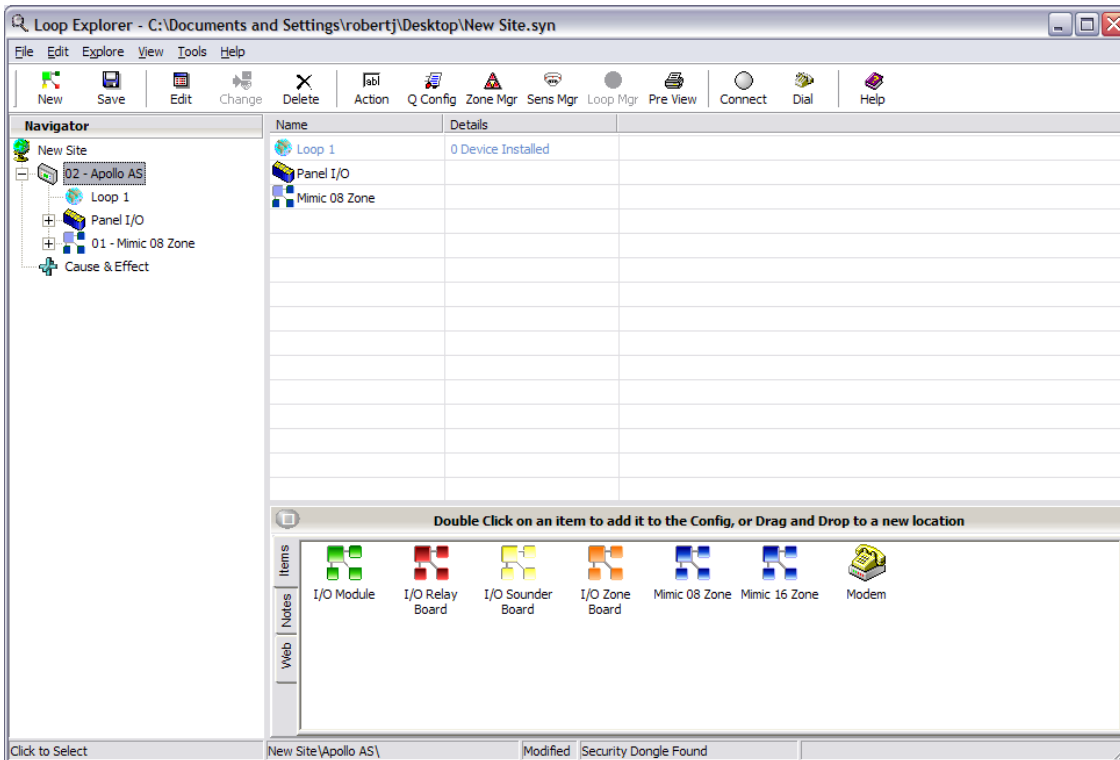
The standard Syncro Ident panel has 8 LED indicators, the common Fire, Fault, Power On and Disablement indicators and the Buzzer Silence and Lamp Test controls fitted. For applications requiring more than 8 programmable indicators a 16 way extension board and a 24 way label are fitted providing a total of 24 programmable indicators. The LED numbering arrangement is as shown on the diagram below.

LED numbering sequence

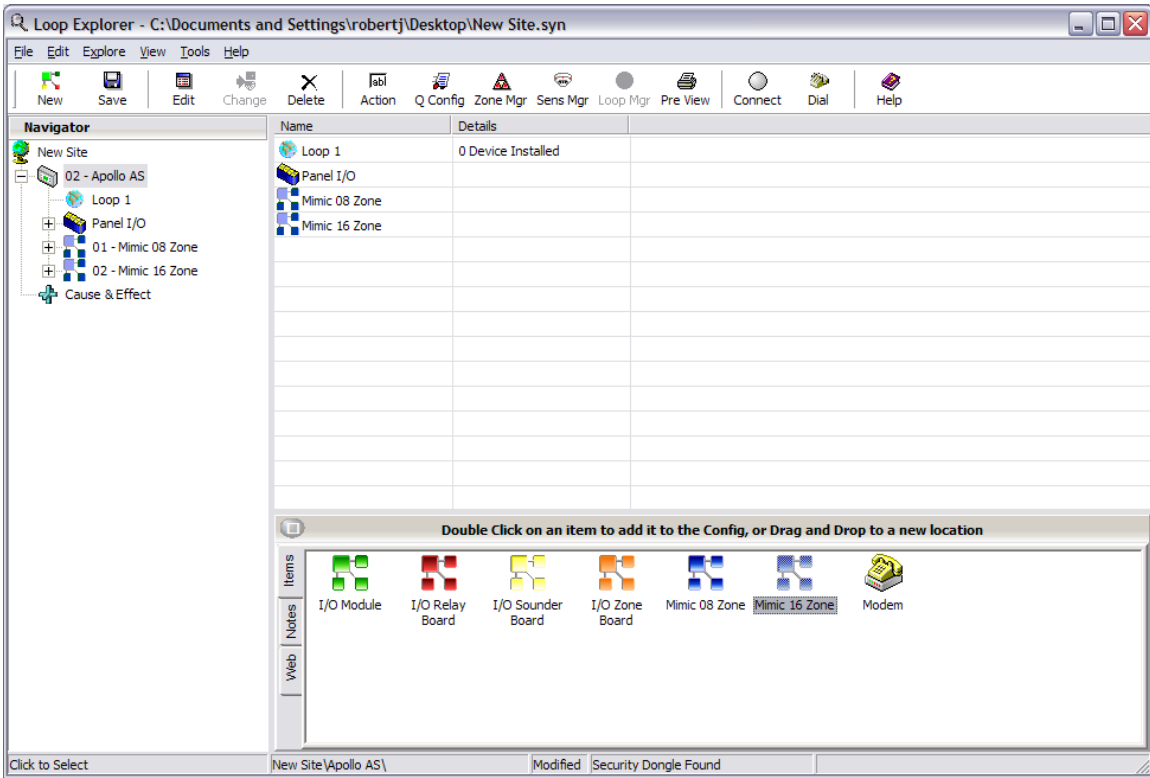


## 10. Configuring the Syncro panel for use with Syncro Ident

Syncro Ident panels are recognized by Syncro and Syncro AS panels as Mimic panels. To add an 8 way Syncro Ident to a Syncro, a Mimic 8 zone should be added as shown in the screen shot below.



To add a 24 way Syncro Ident panel to a Syncro or Syncro AS panel, one Mimic 8 zone and one Mimic 16 zone need to be added and the addresses set to match those set on the boards in the Syncro Ident.

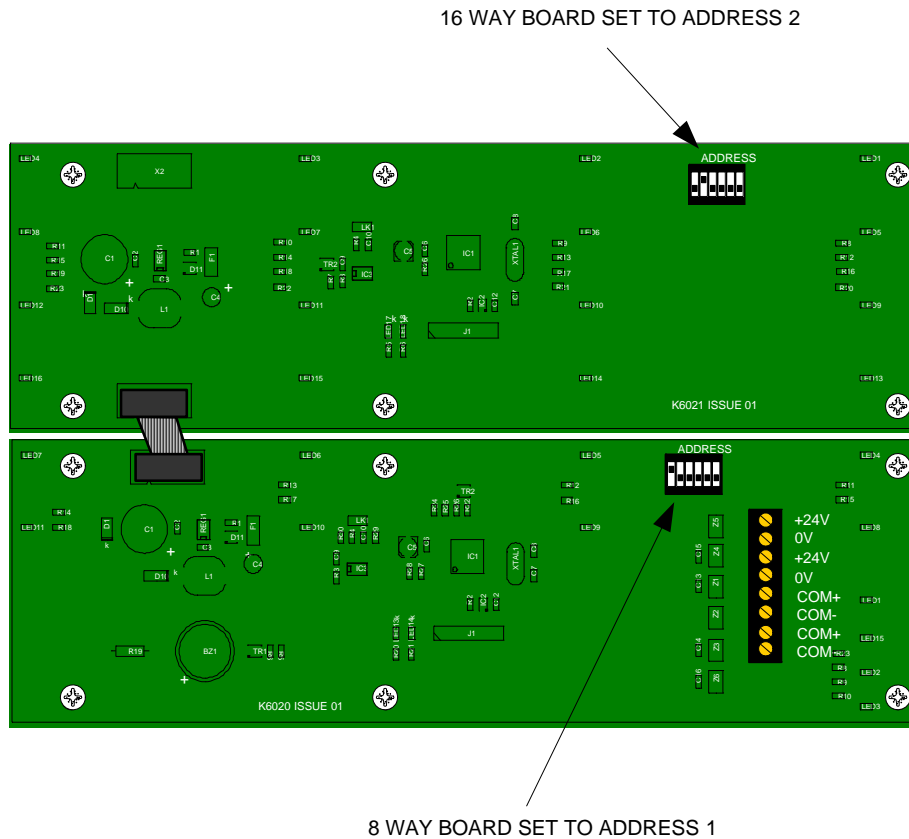




Further Syncro Ident panels can be added by adding Mimic 8 zone and Mimic 16 zone items as above.

Note: each Mimic is automatically allocated an address when added to the configuration file starting at 1 and incrementing by 1 as each is added. These addresses must match the addresses set on the DIL switches fitted to the circuit boards in the Syncro Ident panels.

The diagram below shows the correct DIL switch settings for the 24 way Syncro Ident added to the configuration file show in the configuration file on page 6.



A second 24 way Syncro Ident would typically have the DIL switch settings set to address 3 for the 8 way board and 4 for the 16 way board.

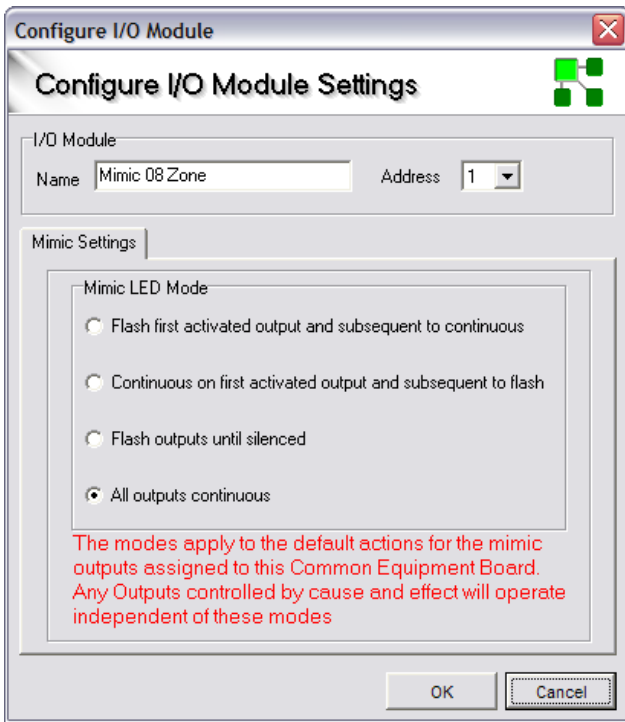
The address numbers can be any number between 1 and 32 of course and can be changed in the configuration file by right clicking the Mimic icon in the Navigator pane of the Loop Explorer configuration programme, selecting Edit Settings and then typing the required address number in the Address box show in the Configure I/O Module Settings box that appears.

The Configure I/O Module Settings box also allows the behaviour of the indicators to be modified. By default, when an indicator activates it will simply light continuously until the system is reset (All outputs continuous).

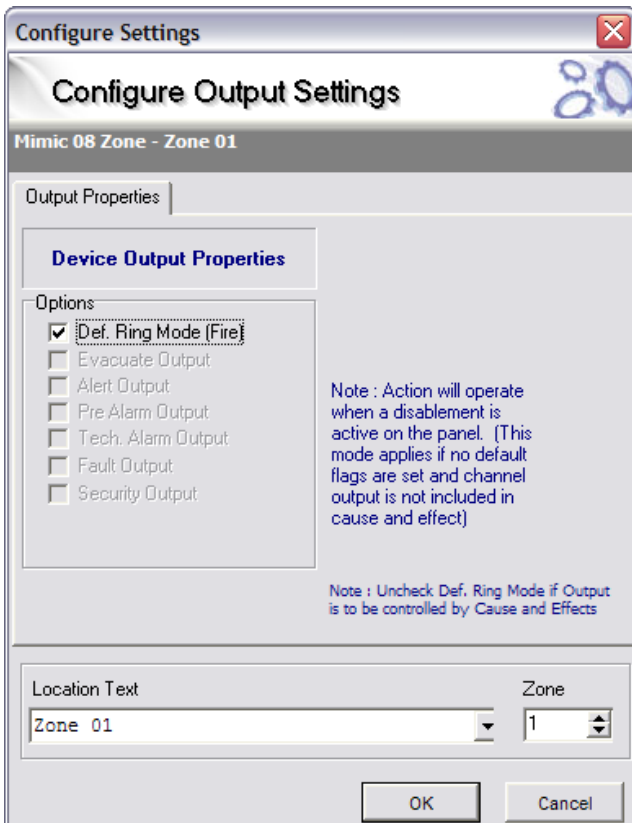
The Configure I/O Module Settings box allows this behaviour to be changed by selecting one of the other radio buttons.

The default configuration for all outputs of the Syncro Ident is to indicate zonal fire. So output 1 of the 8 way board will indicate fire zone 1 etc, output 1 of the 16 way board will indicate fire zone 9 and so on up to output 16 of the 16 way board which will indicate fire zone 24.

By selecting one of the channels to show the Configure output Settings box, a 40 character location message can be allocated to the indication or the zone number can be changed. Default Ring Mode can also de-selected here, and this will allow the output to be programmed to respond to cause and effects.



Configure I/O Module Settings box showing default configuration, all outputs continuous. Selecting one of the other radio buttons allows other options to be set. Normally, both the Mimic 8 zone and Mimic 16 zone boards will have the same options set in this respect.



Selecting one of the channels on a Mimic board allows the zone to which the indication will respond to be changed and a 40 character location test to be entered. (The location text is not particularly relevant to an indicator so can normally be ignored).

If the output is to be controlled by cause and effect programming the Default Ring Mode box should be un-checked.

## **11. Maintenance**

The Syncro Ident does not need any specific maintenance. The Lap test control can be used at any time to check that all indicators are functioning correctly. If the Syncro Ident loses power, the green Power On indicator will not be lit and a fault condition will be shown on the Syncro or Syncro AS panel to which the Syncro Ident is connected. If the Syncro Ident loses its data connection with the Syncro or Syncro AS panel to which it is connected a fault will be shown on the Syncro or Syncro AS panel and all indicators on the Syncro Ident will flash.

If the Syncro Ident panel needs to be cleaned then it should be wiped with a damp cloth only. Cleaning agents or solvents must not be used to clean the Syncro Ident panel.