

# Sigma CP

## Sliding Fire Door Interface Module Operation Manual



<b>Index</b>	<b>Page</b>
1 Warning .....	4
2 Introduction.....	5
3 Safety and Mounting.....	5
3.1 Safety .....	5
3.2 Mounting.....	6
3.3 Cabinet Dimensions.....	7
4 Technical specification .....	8
6 Using intrinsically safe barriers.....	10
7 Control panel fascia .....	11
8 Connecting to the circuit boards .....	12
9 Connection Diagram .....	13
10 Software revision number .....	13
11 Detection zone wiring .....	14
12 Sounder circuit wiring .....	15
13 Connection to remote control terminals.....	15
14 Aux 24V DC supply .....	16
15 Connection to relay contacts.....	16
16 Connection to Accessory modules .....	16
17 Panel operation .....	17
17.1 Normal condition.....	17
17.2 Fire condition.....	17
17.3 Silence/Sound Alarms.....	17
17.4 Reset .....	17
17.5 Zone fault.....	17
17.6 Sounder fault.....	17
17.7 Power fault.....	17
17.8 System fault .....	17
17.9 Lamp test.....	17
17.10 Buzzer Silence.....	17
17.11 Disablements.....	18
17.12 Disable zones.....	18
17.13 Disable sounders.....	18
17.14 Activate delays.....	18
17.15 Disable fault contact.....	18
17.16 Test mode.....	18

18	Configuration options.....	18
19	Watchdog reset switch.....	21
20	Processor reset switch .....	22
21	Internal indications – troubleshooting.....	22
21.1	<i>Mains fail</i> .....	22
21.2	<i>Batt fail</i> .....	22
21.3	<i>CPU fault</i> .....	22
21.4	<i>Aux 24V fault</i> .....	22
21.5	<i>Batt low</i> .....	22
21.6	<i>Earth fault</i> .....	22
21.7	<i>Sys fuse fault</i> .....	22
21.8	<i>S1 fault and S2 fault</i> .....	22
21.9	<i>Comms fault</i> .....	23
22	Sliding Fire Door Interface.....	23
22.1	<i>Operation:</i> .....	23
22.1.1	Normal .....	23
22.1.2	Alarm .....	23
22.1.3	AC Fail.....	24
22.1.4	Door Fault .....	24
22.2	<i>Configuration</i> .....	24
22.2.1	Door Delay .....	24
22.2.2	AC Fail.....	24
22.2.3	Sounder and Door Holder Behaviour.....	24
22.2.4	Timelines showing JP5 & JP6 Functionality .....	25
23	Power supply .....	26
24	Maintenance .....	27
25	Zone designation label .....	27
26	Record of Configuration .....	28
27	Installation Details & Setup .....	30

## **1 Warning**

Sounders can only be used on detection circuits if Hochiki YBO-R/6PA detector bases are used.

To disable sounders on detector all lines, ensure that configuration mode 25 is not set.

To disable sounders on individual detector circuits, set configuration mode 25 and disable individual circuits through the setting of C1 to C8. See Section 18 Table 8.

**DETECTOR BASES WILL BE DAMAGED IF THE INCORRECT MODEL IS USED ON CIRCUITS WHICH HAVE SOUNDERS ENABLED.**

**DAMAGE DUE TO INCORRECT CONFIGURATION WILL NOT COVERED UNDER WARRANTY.**

## 2 Introduction

The SIGMA DDCP conventional fire door control panel is designed to comply with AS7240-2 and AS7240-4 Fire Detection and Fire Alarm systems - Control and Indicating Equipment.

The control panel has an integral, mains powered battery charger and power supply designed in accordance with the requirements of AS7240-4.

In addition to the requirements of AS7240-2 the control panel has the following facilities:

*Test condition* to allow the automatic resetting of zones in alarm for testing purposes. AS7240-2 Section 11 option with requirements.

*Delay of the actioning* of fire alarm devices (sounders) so that an alarm may be verified before a premises is evacuated. AS7240-2 Section 7.11 option with requirements.

*Fire alarm devices* to enable an audible warning to be sounded throughout a premises upon the detection of a fire condition or the operation of a manual call point. AS7240-2 Section 7.8 option with requirements.

Voltage free relay contacts for fire and local fire which operate upon fire condition. These are to be used for local control and signalling.

## 3 Safety and Mounting

### 3.1 Safety

Suppliers of articles for use at work are required to ensure as reasonably as is practical that the article will be safe and without risk to health when properly used.

An article is not regarded as properly used if it is used 'without regard to any relevant information or advice' relating to its use made available by the supplier.

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

- (i) Local regulations for electrical equipment in buildings
- (ii) Codes of practice
- (iii) Statutory requirements
- (iv) Any instructions specifically advised by the manufacturer

You are therefore requested to take such steps as are necessary to ensure that you make any appropriate information about this product available to anyone concerned with its use.

This equipment is designed to be operated from 230V 50Hz mains supplies and is of class 1 construction. As such it **must** be connected to a protective earthing conductor in the fixed wiring of the installation and a readily accessible double pole disconnect device which disconnects live and neutral simultaneously shall be incorporated in the fixed wiring.

**Failure to ensure that all conductive accessible parts of this equipment are adequately bonded to the protective earth will render the equipment unsafe.**

This control panel is designed for indoor use only and at temperatures between -5°C (+/- 3) and +50°C (+/- 2) and with a maximum relative humidity of 95%.

The IP rating for the enclosure is IP30.

Operation outside of these limits may render the equipment unsafe.

### **3.2 Mounting**

The control panel should be mounted on a dry, flat surface, at eye height to the display and in a level position such that the enclosure is not distorted.

Screws or bolts of a minimum of 5mm diameter must be used to mount the enclosure in all four mounting points.

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

Suitable fixings should be used at all fixing points such that the control panel is securely mounted and is not liable to move once fixed.

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

Cables should be connected using suitable 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 panel.



## 4 Technical specification

**Table 1**

### Electrical Specifications

Mains supply	230V AC +10% - 15% (100 Watts maximum)	
Mains supply fuse	1.6Amp (F1.6A L250V)	<i>Replace only with similar type</i>
Power supply rating	3 Amps total including battery charge 28V +/- 2V	
Maximum ripple current	1.5 Volts	
Output voltage	18.5 to 29V DC +/- 2%	
Imax a	400 milliamps	
Imax b	2.3 Amps	
Imin	0.065A	
Battery type (Yuasa NP)	Two 12 Volt sealed lead acid (7Ah maximum)	<i>See Table 2 for capacities</i>
Battery charge voltage	27.6VDC nominal (temperature compensated)	<i>See Table 3</i>
Battery charge current	0.7A maximum	
Battery lead fuse	20mm, 3.15A glass	<i>Replace only with the same type</i>
Battery high impedance warning (Rimax)	1.35 ohms max	
Low battery voltage indication	21V +/- 2%	
Low battery shut off voltage	18.5V +/- 2%	
Maximum current draw from batteries	3 Amps	<i>With main power source disconnected</i>
ROV output	Fused at with electronic fuse	
Dedicated sounder outputs	24V Fused at 500mA with electronic fuse	<i>1.6 Amp total load over all circuits</i>
Zonal sounder outputs	24V Fused at 500mA with electronic fuse	<i>1.6 Amp total load over all circuits</i>
Fault relay contact rating	30VDC 1A Amp maximum for each	<i>Maximum ratings not to be exceeded</i>
Fire relay contact rating	30VDC 1A Amp maximum for each	<i>Maximum ratings not to be exceeded</i>
Local fire relay contact rating	30VDC 1A Amp maximum for each	<i>Maximum ratings not to be exceeded</i>
Zone quiescent current	1.6mA maximum	<i>See Table 4 for detector types</i>
Terminal capacity	0.5mm <sup>2</sup> to 2.5mm <sup>2</sup> solid or stranded wire	
Number of detectors per zone	> 20	<i>Dependent on type</i>
Number of sounders per circuit	Dependent on type and current consumption	<i>See Table 6 for sounder types</i>
Detection circuit end of line	6K8 5% ½ Watt resistor	<i>Supplied in terminals</i>
Sounder circuit end of line	10K 5% ¼ Watt resistor	<i>Supplied in terminals</i>
No. of detection circuits	(see Table 2 for number of zones for each model)	<i>Dependent on model</i>
No. of sounder outputs	2 (plus one per zone on T models)	
SIL, AL, FLT, RST inputs	Switched -ve, max resistance 100 Ohms	
Zone normal threshold	8K ohm TO 1K ohm	
Detector alarm threshold	999 ohms to 400 ohms	
Call point alarm threshold	399 ohms to 100 ohms	
Short circuit threshold	99 ohms to 0 ohms	
Head removal condition	15.5 to 17.5 volts	<i>Zener clamp detector base to be used</i>
Cabling	To Australian Standards (maximum capacitance 1uF maximum inductance 1 millihenry)	<i>Metal cable glands must be used</i>

**Table 2**

### Standby battery capacity required for fully loaded system

Panel model	24 hours standby	48 hours standby	72 hours standby	Standby current	Max panel alarm current
T11080M3 (8 Zones)	3.75Ah	5.95Ah	8.2Ah	0.093A	0.63A

**Table 3**

### Battery charge voltage versus temperature

Temperature °C	Battery charge voltage
0	<b>29.2</b>
10	<b>28.56</b>
20	<b>27.99</b>
30	<b>27.55</b>
40	<b>27.13</b>



**Table 4****Compatible Detectors**

Model	Type	Manufacturer	Maximum Number per zone
SLV-AS	OPTICAL	HOCHIKI	40
DCD-A	HEAT	HOCHIKI	40
DCD-C	HEAT	HOCHIKI	35
DFJ-60B	HEAT	HOCHIKI	40
DFJ-90D	HEAT	HOCHIKI	35
DFG-60BLKJ	HEAT	HOCHIKI	40
DRD-AS	FLAME	HOCHIKI	25
SPC-AS	BEAM	HOCHIKI	6

**Table 5****Compatible detector bases and call points**

Model	Type	Manufacturer	Comments
YBN-R/4C	PLAIN BASE	HOCHIKI	
YBO-R/4A	LED BASE	HOCHIKI	
YBO-R/6PA	LED BASE	HOCHIKI	
MUS1A-R470SG-01	CALL POINT	KAC	
MUS1A-R470SF-01	CALL POINT	KAC	

**Table 6****Compatible sounders**

Model	Type	Manufacturer	Comments
ROSHNI		FULLEON	
SQUASHNI		FULLEON	
SQUASHNI MICRO		FULLEON	

**Table 7****Compatible I.S. barriers**

Model	Type	Manufacturer
MTL5061	DETECTION ZONE GALVANIC ISOLATOR	MTL
MTL778ac	SOUNDER CIRCUITS S1 AND S2 ONLY	MTL

Note: To use detectors and sounders within an intrinsically safe area, the detectors and sounders must be of an intrinsically safe type and approved for use within the risk category.

## 6 Using intrinsically safe barriers

SIGMA DDCP control panels support the use of I.S. barriers for connecting to equipment in hazardous areas. **Only certified detectors, call points and sounders may be used in hazardous areas and these must be connected to the control panel via a compatible I.S. barrier as listed in Table 7.**

Connection of the I.S. barrier changes the characteristics of the detection circuit, therefore zones that have I.S. barriers connected, must be adjusted to work with them.

Programmable options C61 to C68 allow each zone to operate with I.S. barriers.

The amount of detectors and call points that can be connected to a zone is limited by the I.S. approval system diagram which should be supplied by the detector manufacturer. The power rating of the end of line resistor will be dependent upon the Zone classification rating (Gas class) this will be specified on the system diagram.

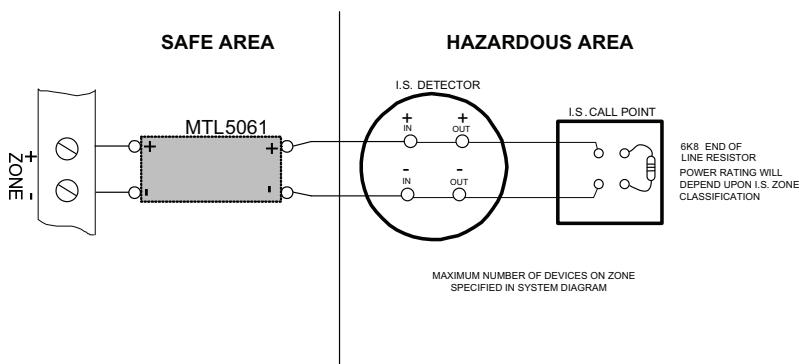


Figure 1. Detection zone wiring through an MTL5061 I.S. barrier

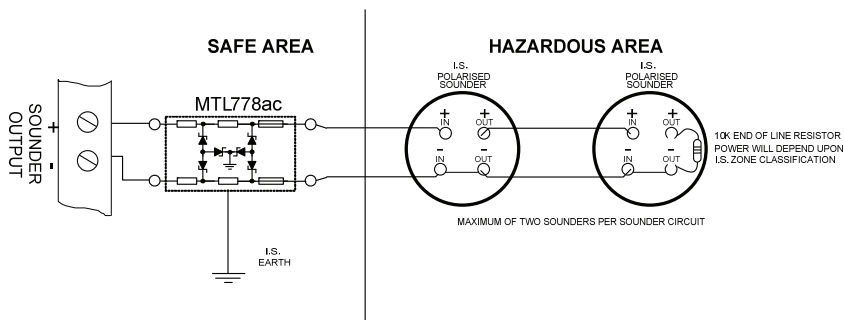


Figure 2. Sounder circuit wiring through an MTL778ac I.S. barrier

## 7 Control panel fascia



In addition to the mandatory controls and indications required by the AS7240-2 standard, two seven-segment LED displays and *MODE*, *SELECT* and *ENTER* buttons are provided to allow easy entry and storage of codes to configure the control panel to suit the requirements of the installation.

### Opening the fascia

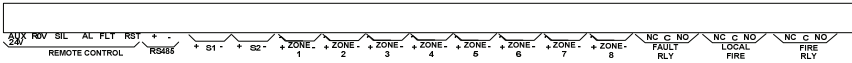
The fascia of the control panel is held in place by a screw on the right hand side. Undo the screw and swing the plate from the right hand side.

Opening the fascia allows more room when mounting the cabinet and fitting cables.

## 8 Connecting to the circuit boards

All connections for field wiring are to a single row of terminals along the top of the circuit board. The connections for the power cables are to a pluggable terminal block which may be pulled off of the board to remove power from the PCB assembly. Remove this pluggable terminal only with Mains Power OFF. Cabling must comply with the relevant Australian Standards. The resistance of any core of any cable must not exceed 25 ohms.

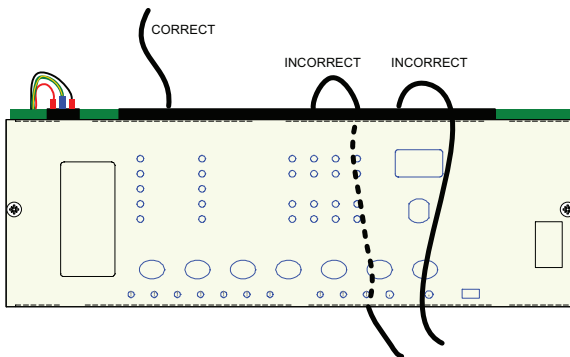
Wiring should enter the enclosure at the top of the panel using the knockouts provided and be formed tidily to the appropriate terminals leaving only enough wire to ensure that there is no strain on the PCB. Terminals are capable of accepting wires of up to 2.5mm<sup>2</sup>.



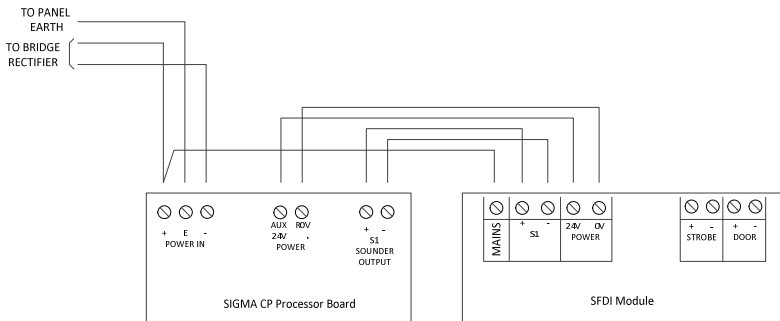
### Terminal designations

Wiring must not go across the front of the circuit board plate or between the plate and the circuit board. If cable entries need to be in positions other than at the knockouts provided, wiring must be fed behind and well away from the surface of the circuit board.

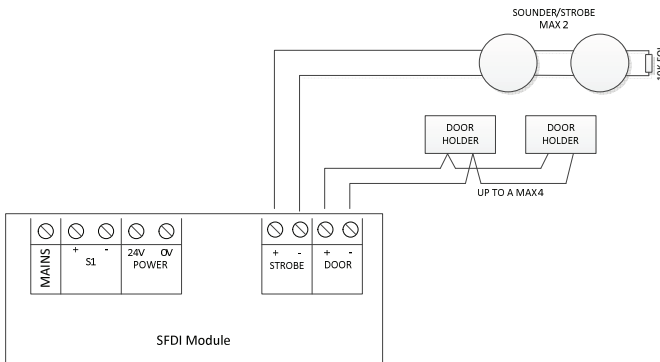
The space at the bottom of the enclosure is largely occupied by the standby batteries so this must be borne in mind when considering cable entries.



## 9 Connection Diagram

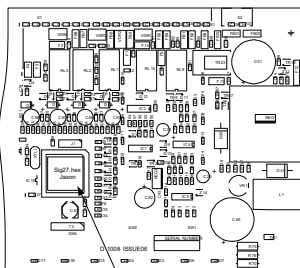


Sliding Fire Door Interface Connection to the SIGMA CP Panel



Sliding Fire Door Interface Field Connection

## 10 Software revision number



New features may be added to Sigma DDCP fire control panels from time to time and when this is done the operating software of the unit is updated. The software revision can be located on the main processor by removing the plate holding the PCB from the enclosure and turning it over. The software version will have a number such as "Sig27.hex" and it is this number which will determine which features the panel has installed and its compatibility with Sigma DDCP ancillary board, sounders boards, repeaters etc.

## 11 Detection zone wiring

The detection zones provide a nominal 24V DC to power compatible conventional detectors and call points.

The wiring is monitored for open and short circuit fault conditions. The 6K8 end of line monitoring resistors that are factory fitted to the control panel's terminals must be removed and placed across the last device that is wired to the zone circuit.

Wiring can be conventional using standard detector bases (K series), or by the use of special detector bases it is possible to wire the system such that detection devices and sounders are fitted to the same pair of wires. (T series)

Detection zone circuits must be wired as a single, radial circuit with no spurs or T junctions to enable the monitoring circuit to work correctly.

Polarised sounders may also be wired across the detection zone but in reverse polarity to that shown by the zone terminals (see figure 5 below). Each zone can be configured individually as a 2-wire type zone or a non 2-wire type zone using configuration options C1 to C8.

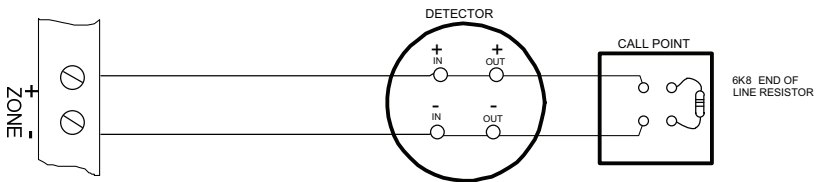


Figure 4.- K Series detection zone wiring

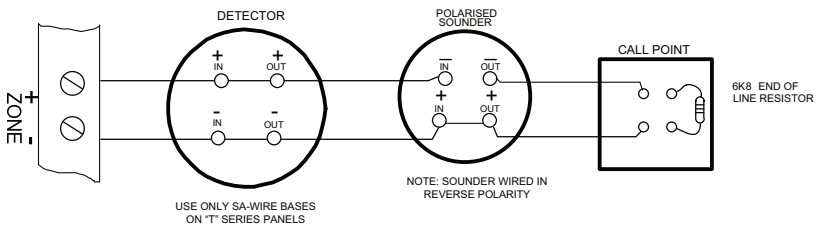


Figure 5.- T series detection zone wiring

## 12 Sounder circuit wiring

All sounders must be of the polarised type. If non-polarised sounders are used the control panel will permanently show a fault condition.

Sounder circuits are monitored for open and short circuit faults by placing a 10K end of line monitoring resistor across the last device on the circuit.

Sounder circuits must be wired as a single, radial circuit with no spurs or T junctions to enable the monitoring circuit to work correctly.

A maximum of 1.6 Amps is available for powering sounders with a maximum load of 0.41 Amps on any one circuit.

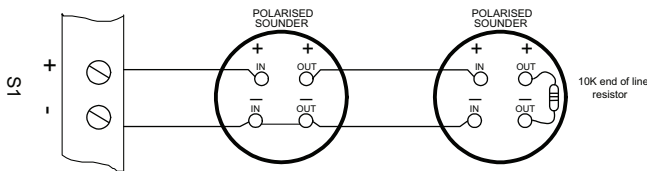


Figure 6.- Sounder circuit wiring

## 13 Connection to remote control terminals

Some functions of the control panel can be controlled externally from the panel if required. Operation of these inputs **must be restricted by an access level 2 control** as defined in AS7240-2. These are abbreviated at the terminals block as follows:

- Remote 0V supply – R0V
- Silence Alarm – SIL
- Sound Alarm – AL
- Fault – FLT
- Reset – RST

To activate these inputs, the remote 0 Volt (R0V) supply must be connected to the input via a normally open switch or contact and via a resistance of no greater than 100 ohms.

All of the remote control inputs are non-latching.

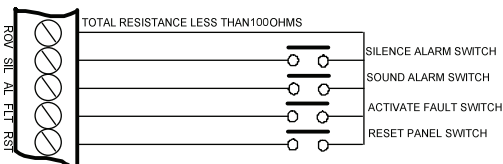


Figure 7- Example connections to remote control inputs

## 14 Aux 24V DC supply

An auxiliary 24V DC supply is provided to enable local signalling or control of ancillary systems such as door release controllers. The terminals for the Aux 24V supply are labelled Aux 24V and ROV. The ROV terminal is the negative terminal and is the same terminal that should be used to switch the remote control terminals. It is possible to make the ROV terminal pulsing so that by connecting it to the AL terminal via a remote voltage-free contact, it can be used to pulse the dedicated sounder circuits in response to a signal from another system for example to give an alert. See programming code 24.

The supply is fitted with an electronic self-resetting fuse to protect the control panel's 24V supply in the event of a wiring fault.

Any standing load on the Aux 24V supply must be taken into account when calculating battery standby times as standby time will be significantly affected by even modest standing loads. It is recommended that the Aux24V output is **not** used to power standing loads and not used to supply loads of greater than 300 milliamps.

Where the Aux 24V supply is used to power electromechanical devices such as relays or door retainers it is imperative that a suppression diode is fitted across the coil of the electromechanical device to prevent the generation of high voltage transients back to the control panels power supply. The Aux 24V DC Supply is not suitable for powering Sigma DDCP sounder boards, a separate power supply should be used for these.

## 15 Connection to relay contacts

Volt free changeover relay contacts are provided for local control and signalling if required. These contacts are rated for switching signalling circuits only and the maximum ratings listed in Table 1 should not be exceeded under any circumstances.

### Fault relay

The *Fault Relay* is normally energised and will de-energise upon any fault condition including total loss of power.

### Local fire relay

The *Local Fire Relay* will energise upon activation of a fire condition on any of the zones or pressing of the *Sound Alarm* Button on the front panel. The relay will remain activated until the alarm is silenced or the panel is reset. This relay will not operate upon activation of the remote AL input or when a fire condition is triggered on a zone that is in test mode.

### Fire relay

The fire relay will energise upon activation of a fire condition on any of the zones. The relay will remain activated until the control panel is reset. This relay will *NOT* operate upon activation of the remote AL input. Individual zones can be configured not to operate the Fire relay by setting configuration options E1 to E8.

## 16 Connection to Accessory modules

Accessory modules include a Gas Module, Ancillary Relay Module, or an Australian Interface Module.

Accessory modules connect via a 2 core cable to the terminals marked RS485 + and – on the Sigma DDCP main control panel PCB. Up to a total of 7 Accessory modules may be connected and each has terminals for the incoming cables and outgoing cables. All except the last accessory module connected to the cable must have the jumper links J2 removed.

The address of any accessory modules used within the system must have their address set using the DIP switch on the module, ensuring that no two modules of the same type share the same address. NOTE: The Australian Interface Module is fixed at Output unit address 7 and cannot be changed.

Apply power to main panel first and then all accessory modules. Turn ON the *Enable Control* keyswitch and set the *Write Enable* switch to ON then briefly press the *Processor Reset* button on the main panel. Wait for a few seconds and the main panel will show the addresses of the modules that were found on the display for instance "r1" indicates that a module at address 1 has been found.

Turn the *Write Enable* switch OFF, then ON again and then press the *Enter* button to accept each module that has been found. When all modules have been added, set the main panel *Write Enable* switch to OFF. Press the *Watchdog Reset* switch on the main panel.

All modules are now configured and the main control panel will report a fault if any module, that has been accepted, becomes faulty or goes off-line.



## 17 Panel operation

### 17.1 Normal condition

Under normal conditions, control panels will have only the green, *Power On* LED lit.

### 17.2 Fire condition

Upon receipt of a fire condition by activation of a detector or call point, the *Common Fire* indicator will light and the *Fire in Zone* indicators will flash at around 2Hz.

The *Fire* and *Local Fire* relays will also operate and signal any systems to which they are connected.

Any sounders connected to the sounder circuits will operate in common, zonal or 2-stage mode as selected by configuration options 10 to 12 (see Table 8).

### 17.3 Silence/Sound Alarms

The *Silence/Sound alarm* button can only be operated at access level two which means that the *Enable Control* keyswitch must be activated.

To silence the sounders, activate the *Enable Control* keyswitch and press the *Silence/Sound Alarm* button.

When the sounders have been silenced, the Zone Fire LEDs will change from flashing to a steady state.

Pressing the *Silence/Sound Alarm* whilst the control panel is in this silenced condition will cause the sounders to operate again.

The sounders can be toggled on and off with the *Silence/Sound Alarm* button as required.

### 17.4 Reset

To reset the panel, activate the *Enable Control* keyswitch then press the *Reset* button.

### 17.5 Zone fault

Removal of a detector from its base or a fault on any of the zone wiring will cause the *Fault* LED and *Zone Fault* LEDs to light indicating the zone in which the fault has occurred. Zone fault is non-latching and will automatically reset once the fault has been rectified.

### 17.6 Sounder fault

A fault on the wiring to sounder circuits will cause the *Fault* and *Sounder Fault* LEDs to light indicating a fault on the wiring to the sounder circuits. Sounder fault is non-latching and will automatically reset once the fault has been rectified.

### 17.7 Power fault

Failure of the mains power, disconnection of the standby battery or high impedance in the charging circuit will cause the *Fault* and *Power Fault* LEDs to light indicating an abnormality in the power supply to the control panel. Power fault is non-latching and will automatically reset once the fault has been rectified.

### 17.8 System fault

The *System Fault* LED will light if the configuration memory has not been set or has become corrupt. System fault is non-latching and will automatically reset once the configuration has been rectified.

### 17.9 Lamp test

All LED indicators can be tested at any time by pressing the *Lamp Test* button. The *Enable Control* keyswitch does not need to be activated to test the indicators.

### 17.10 Buzzer Silence

The buzzer can be silenced at any time by pressing the *Alarm/Fault Warning Silence* button. The *Enable Control* keyswitch does not need to be activated to silence the buzzer.

### 17.11 Disablements

It is possible to disable parts of the system. This may be required if there are works going on in a building which may cause the fire alarm system to operate in error.

### 17.12 Disable zones

To disable zones, the *Enable Control* keyswitch should be activated and the *Mode* button pressed until "d" appears in the first of the two seven-segment LED displays. The *Select* button should then be pressed to select the number of the zone which is to be disabled in the second of the two seven-segment displays. Once the desired zone is displayed, the *Enter* button should be pressed to confirm the disablement. The *Disable* LED will light and the *Zone Fault* LED will light for each disabled zone.

### 17.13 Disable sounders

To disable sounder outputs, press the *Mode* button to select "db" on the seven-segment display. Pressing *Enter* will disable all sounders and cause the *Disable* and *Sounder Fault* LEDs to light.

### 17.14 Activate delays

To activate delays on zones as set in configuration options 31 to 48, press the *Mode* button until "Ad" appears on the seven-segment LED display. When the *Enter* button is pressed any zones that are set as delayed will have their alarm outputs delayed by the time set in configuration options 00 to 09.

### 17.15 Disable fault contact

The fault relay can be disabled by selecting configuration option 22.

### 17.16 Test mode

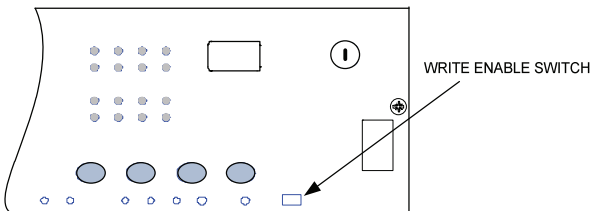
Fire alarm systems must be tested regularly to ensure that they are functioning correctly. The Sigma DDCP range of panels enable the system to be tested single handed by using a test mode. When in test mode, activation of a fire alarm will be automatically reset after a few seconds to eliminate the need to return to the control panel to reset after every activation.

Test mode is entered in a similar way to disablements. With the *Enable Control* keyswitch activated, press the *Mode* button until "t" appears in the first of the seven-segment displays. Then press the *Select* button until the required zone number appears. Pressing the *Enter* button will cause the *Test* and *Zone Fault* LEDs to illuminate indicating the zones which are in test mode.

Disablements and zone tests are cleared by repeating the sequence that is used to select them, i.e. the "db" function (for example) toggles between sounders disabled and sounders enabled.

## 18 Configuration options

The Sigma DDCP range of control panels has many configuration options which can be set at the time of commissioning to suit the requirements of the installation. These options are normally set once and will rarely need to change. The configuration options are only available at access level 3. To access level 3, CAREFULLY slide the *Write Enable* switch (located behind the aperture in the panel plate) to the right position using a small screwdriver or similar. When the panel is at access level 3, the buzzer will "pip" three times every few seconds as an indication that it is at this access level.



Configuration options are simple to enter using the codes in Table 8below. When the control panel is at access level 3, the sub-text of the *Mode* and *Select* buttons is used to enter a number using tens (+10) and units (+1).

When the required code number is displayed, pressing the *Enter* button will cause the dot on the units, seven-segment display to flash. This indicates that a configuration option has been set.

To review which configuration options have been set previously, simply scroll through numbers 1 to 99, A1 to A8, C1 to C8 and E1 to E8 and those with a flashing dot indicate which options have been set.

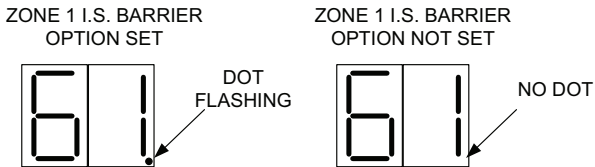


Figure 9 – Example display showing option set and not set.

**Table 8**

**Configuration Codes**

CODE	FUNCTION	COMMENTS
00	SOUNDER DELAY TIME = 30 SECONDS	Sets the time delay before sounders operate in combination with configuration codes 31 to 48 and access level 2 function AD.
01	SOUNDER DELAY TIME = 1 MINUTE	
02	SOUNDER DELAY TIME = 2 MINUTES	
03	SOUNDER DELAY TIME = 3 MINUTES	
04	SOUNDER DELAY TIME = 4 MINUTES	
05	SOUNDER DELAY TIME = 5 MINUTES	
06	SOUNDER DELAY TIME = 6 MINUTES	
07	SOUNDER DELAY TIME = 7 MINUTES	
08	SOUNDER DELAY TIME = 8 MINUTES	
09	SOUNDER DELAY TIME = 9 MINUTES	
10	COMMON ALARM MODE (default)	All sounders operate upon any fire condition
11	TWO-STAGE ALARM MODE	Continuous sounders in activated zone, pulsing elsewhere
12	ZONED ALARM MODE	Only sounders connected to zone in alarm operate
21*	DISABLE FIRE BUZZER	Buzzer will not operate on fire condition
22*	DISABLE FAULT OUTPUT	Fault relay will not operate except upon total power failure
23	DISABLE EARTH FAULT MONITORING	Connection of fire alarm wiring will not announce a fault
24	PULSED REMOTE CONTROL OUTPUT	Aux 24V supply pulses 1 sec on/1 sec off
25	ENABLE SOUNDERS ON DETECTION CIRCUITS	Set as default if panel is two wire "T" series (detectors and call points on same cables)
26	DISABLE FIRE OUTPUT	Fire relay will not operate upon any alarm
27	REMOVE AUX 24 UPON PANEL RESET <b>DO NOT SET</b>	24V supply switches off for about 5 seconds when panel is reset
28	INDICATE CALL POINT ACTIVATION	Activation of a call point with a 270R resistance fitted is indicated by a flashing zone indicator and "ITU" on the 7 segment display. Activation of a detector will be indicated by a steady zone indicator and nothing on the 7 segment display.
29	DO NOT RE-SOUND ALARMS FROM ANOTHER ZONE	Silenced sounders will not re-sound upon further zone activations
31	ZONE 1 ALARM FROM DETECTOR DELAYED	Sounder outputs will be delayed by time set at options 0-9 when selected zone(s) triggered by detector only. Note: Access level 2 function Ad must be set for this to take effect.
32	ZONE 2 ALARM FROM DETECTOR DELAYED	
33	ZONE 3 ALARM FROM DETECTOR DELAYED	
34	ZONE 4 ALARM FROM DETECTOR DELAYED	
35	ZONE 5 ALARM FROM DETECTOR DELAYED	
36	ZONE 6 ALARM FROM DETECTOR DELAYED	
37	ZONE 7 ALARM FROM DETECTOR DELAYED	
38	ZONE 8 ALARM FROM DETECTOR DELAYED	
41	ZONE 1 ALARM FROM CALL POINT DELAYED	Sounder outputs will be delayed by time set at options 0-9 when selected zone(s) triggered by call point only. Note access level 2 function Ad must be set for this to take effect.
42	ZONE 2 ALARM FROM CALL POINT DELAYED	
43	ZONE 3 ALARM FROM CALL POINT DELAYED	
44	ZONE 4 ALARM FROM CALL POINT DELAYED	
45	ZONE 5 ALARM FROM CALL POINT DELAYED	
46	ZONE 6 ALARM FROM CALL POINT DELAYED	
47	ZONE 7 ALARM FROM CALL POINT DELAYED	
48	ZONE 8 ALARM FROM CALL POINT DELAYED	
51	COINCIDENCE ZONE 1	Zone contributes to ancillary board coincidence O/P. Any number of zones can be selected to contribute.
52	COINCIDENCE ZONE 2	
53	COINCIDENCE ZONE 3	
54	COINCIDENCE ZONE 4	
55	COINCIDENCE ZONE 5	
56	COINCIDENCE ZONE 6	
57	COINCIDENCE ZONE 7	
58	COINCIDENCE ZONE 8	
61	CONFIGURE Z1 FOR I.S BARRIER	Detection threshold changed for use with IS barrier
62	CONFIGURE Z2 FOR I.S BARRIER	
63	CONFIGURE Z3 FOR I.S BARRIER	
64	CONFIGURE Z4 FOR I.S BARRIER	
65	CONFIGURE Z5 FOR I.S BARRIER	
66	CONFIGURE Z6 FOR I.S BARRIER	
67	CONFIGURE Z7 FOR I.S BARRIER	
68	CONFIGURE Z8 FOR I.S BARRIER	

CODE	FUNCTION	COMMENTS
71*	ZONE 1 SHORT CIRCUIT INDICATES ALARM	Changes the trigger threshold of the zone so that the control panel can be used on older systems that had no short-circuit monitoring.
72*	ZONE 2 SHORT CIRCUIT INDICATES ALARM	
73*	ZONE 3 SHORT CIRCUIT INDICATES ALARM	
74*	ZONE 4 SHORT CIRCUIT INDICATES ALARM	
75*	ZONE 5 SHORT CIRCUIT INDICATES ALARM	
76*	ZONE 6 SHORT CIRCUIT INDICATES ALARM	
77*	ZONE 7 SHORT CIRCUIT INDICATES ALARM	
78*	ZONE 8 SHORT CIRCUIT INDICATES ALARM	
81*	ZONE 1 NON-LATCHING	Renders the zone self-resetting so that it can be used to receive signals from other systems and will reset when the input is removed. Note: It can take up to 20 seconds for zone to reset itself when sounders are operating
82*	ZONE 2 NON-LATCHING	
83*	ZONE 3 NON-LATCHING	
84*	ZONE 4 NON-LATCHING	
85*	ZONE 5 NON-LATCHING	
86*	ZONE 6 NON-LATCHING	
87*	ZONE 7 NON-LATCHING	
88*	ZONE 8 NON-LATCHING	
91	ZONE 1 DOES NOT SOUND ALARMS	Prevents the zone from operating the two common sounder outputs.
92	ZONE 2 DOES NOT SOUND ALARMS	
93	ZONE 3 DOES NOT SOUND ALARMS	
94	ZONE 4 DOES NOT SOUND ALARMS	
95	ZONE 5 DOES NOT SOUND ALARMS	
96	ZONE 6 DOES NOT SOUND ALARMS	
97	ZONE 7 DOES NOT SOUND ALARMS	
98	ZONE 8 DOES NOT SOUND ALARMS	
A1*	ZONE 1 ANY ALARM DELAYED	Zone needs to be triggered for 30 seconds continuously before an alarm is generated.
A2*	ZONE 2 ANY ALARM DELAYED	
A3*	ZONE 3 ANY ALARM DELAYED	
A4*	ZONE 4 ANY ALARM DELAYED	
A5*	ZONE 5 ANY ALARM DELAYED	
A6*	ZONE 6 ANY ALARM DELAYED	
A7*	ZONE 7 ANY ALARM DELAYED	
A8*	ZONE 8 ANY ALARM DELAYED	
C1	ZONE 1 SOUNDERS INHIBITED	Enables individual zones to be configured not to operate zonal sounders. On 2 wire "T" series panels this enables individual zones to be configured for use with conventional (non 2-wire) detector bases.
C2	ZONE 2 SOUNDERS INHIBITED	
C3	ZONE 3 SOUNDERS INHIBITED	
C4	ZONE 4 SOUNDERS INHIBITED	
C5	ZONE 5 SOUNDERS INHIBITED	
C6	ZONE 6 SOUNDERS INHIBITED	
C7	ZONE 7 SOUNDERS INHIBITED	
C8	ZONE 8 SOUNDERS INHIBITED	
E1*	ZONE 1 WILL NOT OPERATE FIRE RELAY	Enables individual zones to be selected to not operate the fire relay. This is sometimes combined with the non-latching function to prevent ring around on interconnected panels.
E2*	ZONE 2 WILL NOT OPERATE FIRE RELAY	
E3*	ZONE 3 WILL NOT OPERATE FIRE RELAY	
E4*	ZONE 4 WILL NOT OPERATE FIRE RELAY	
E5*	ZONE 5 WILL NOT OPERATE FIRE RELAY	
E6*	ZONE 6 WILL NOT OPERATE FIRE RELAY	
E7*	ZONE 7 WILL NOT OPERATE FIRE RELAY	
E8*	ZONE 8 WILL NOT OPERATE FIRE RELAY	

**NOTE: Setting the options marked with asterisks does not comply with AS7240-2**

Once the required configuration options have been set, the *Write Enable* switch **must** be returned to its normal position to the left. The *General Fault* indicator will remain lit if the *Write Enable* switch is not turned OFF.

## 19 Watchdog reset switch

If for any reason the microprocessor in the control panel fails to carry out its operation correctly it will attempt to restart itself. This process is called a "watchdog" and the control panel must record and indicate these events.

If a watchdog event occurs, the control panel will show the *Fault* and *System Faultless* on the front panel, the *CPU Faulted* inside the panel.

This fault can only be cleared by pressing the *Watchdog Reset* button on the PCB inside the control panel. The control panel buzzer cannot be silenced and will continue to sound until the watchdog activation is reset.

## **20 Processor reset switch**

Once started, the microprocessor controlling the panel should continue to run continuously without interruption. If the microprocessor fails to run correctly it can be reset by pressing the *Processor Reset* button on the PCB inside the control panel.

This should not normally be necessary but should be done as a matter of course if the system is behaving abnormally. The system should resume normal operation within a couple of seconds of pressing the *Processor Reset* button. Note: A *Watchdog Reset* should always be performed following a *Processor Reset*.

## **21 Internal indications – troubleshooting**

To assist in identifying fault conditions which are not detailed on the front of the control panel, a number of internal indicators are visible with the front cover removed as follows:

### **21.1 Mains fail**

Indicates that the 230V AC supply is not present and the system is running on standby batteries. If there is not a power cut, check the panels mains fuse.

### **21.2 Batt fail**

Indicates that the standby battery has become disconnected, or that the charging circuit of the control panel has a high resistance or has failed. Check that both batteries are connected and linked together. Test the battery. Disconnect the battery and ensure that 28 Volts can be measured on battery charger leads.

### **21.3 CPU fault**

Indicates that the central processor unit has failed to correctly execute code and has been re-started by the system watchdog. The *Watchdog Reset* switch must be pressed to clear the *CPU Fault* condition. If system does not return to normal after the *Watchdog Reset* switch is pressed then the panel is probably damaged and the circuit board needs replacing.

### **21.4 Aux 24V fault**

The Aux 24V and R0V terminals provide a 500 milliamp, 24V DC power supply for power fire alarm ancillary equipment. This LED indicates that fuse protecting the R0V output has operated and the rating of this output has been exceeded. The fuse is a self-resetting type and the supply will resume when the fault condition is removed.

### **21.5 Batt low**

Illuminates when the system is running on batteries and the battery voltage is lower than 21V +/-2% (the minimum battery voltage).

### **21.6 Earth fault**

Indicates that part of the system wiring is connected to earth. Remove all system wiring and re-connect cables one at a time until the earth fault returns. This will indicate which cable the earth fault is present on.

### **21.7 Sys fuse fault**

Indicates that the total power rating of the power supply has been exceeded and that the system fuse has come into operation. Remove and review all loads and re-connect one at a time until over rated circuit trips fuse to identify troublesome circuit.

### **21.8 S1 fault and S2 fault**

Indicates a short or open circuit on sounder outputs. Remove wiring and refit end of line resistors. Check sounder circuit wiring.

## 21.9 Comms fault

Indicates that communication has been lost with a repeater panel or ancillary board. Check for comms fault at all repeaters and ancillary boards to identify the source of the problem.

## 22 Sliding Fire Door Interface

The Incite Sliding Fire Door Interface (SFDI) control module has been designed to enable ease of interface of smoke and fire doors.

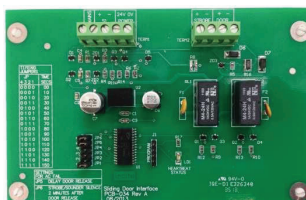
The module is supplied complete with mounting standoffs for ease of installation into the Sigma CP control panel. All configuration parameters are easily set by adding and removing jumpers on the module. Outputs are monitored for reliability and operational assurance.

Control wiring to the CP control panel is via 5 wires to terminal blocks. These are:

- Power 24V
- Power 0V
- Mains In
- Sounder In +
- Sounder In –

Field wiring for the door system is via 4 terminal blocks. These are:

- Door Holder 24V
- Door Holder 0V
- Strobe/sounder 24V
- Strobe/sounder 0V



### 22.1 Operation:

The SFDI control module is mounted in the rear of the Sigma CP control panel and comes with mounting hardware and is wired for ease of installation.

The status of the module is shown on the heartbeat LED for ease of diagnostics as follows:

- Normal: Slow flash: 1 second ON, 1 second OFF
- Alarm: Double rate flash: ½ second on, ½ second OFF
- Fault: 2 flashes
- AC Fail: 3 flashes

The door holder is monitored only to the first door magnet.

The sounder is monitored via the control panel.

Any faults are indicated on the control panel via the sounder circuit on the control panel.

#### 22.1.1 Normal

In the normal mode, the Heartbeat Status LED will flash at ½ Hz. The door output will be energised, and the sounder circuit will be off.

#### 22.1.2 Alarm

The alarm signal is derived from the SIGMA CP sounder circuit.

When this circuit becomes active, the strobe output of the control module will activate, and after a delay, as set by the jumpers, the door will release. The sounder will continue to operate until the alarm is reset. See AC Fail for additional information.

### 22.1.3AC Fail

The SFDI monitors the mains, and should the mains fail for more than a continuous 20 minute period, the door release function will be activated as if an alarm is present.

Once the door has been activated, the sounder may continue for a further 45 second period before being turned off. This is to prevent the batteries being unduly loaded for no reason.

### 22.1.4Door Fault

The door Holder output is current monitored, and should the door holders stop drawing current due to an open circuit, a fault will be signalled is the sounder circuit on the SIGMA CP.

## 22.2 Configuration

Configuration is achieved through jumpers on the SFDI module.

### 22.2.1Door Delay

Door delay timing can be set from 0 to 150 seconds in 10 second increments as per the following table and jumpers JP 1, 2, 3, and 4.

JP4	JP3	JP2	JP1	Time before door release. (seconds)
OFF	OFF	OFF	OFF	0
OFF	OFF	OFF	ON	10
OFF	OFF	ON	OFF	20
OFF	OFF	ON	ON	30
OFF	ON	OFF	OFF	40
OFF	ON	OFF	ON	50
OFF	ON	ON	OFF	60
OFF	ON	ON	ON	70
ON	OFF	OFF	OFF	80
ON	OFF	OFF	ON	90
ON	OFF	ON	OFF	100
ON	OFF	ON	ON	110
ON	ON	OFF	OFF	120
ON	ON	OFF	ON	130
ON	ON	ON	OFF	140
ON	ON	ON	ON	150

### 22.2.2AC Fail

The AC fail delay is hard coded at 20 minutes and cannot be changed. Any AC failure less than 20 minutes will be picked up by the SIGMA CP panel but will not be acted upon by the SFDI module.

### 22.2.3Sounder and Door Holder Behaviour

The behaviour of the Sounder and Door Holder output in response to AC failure is configured via jumpers JP5 and JP6.

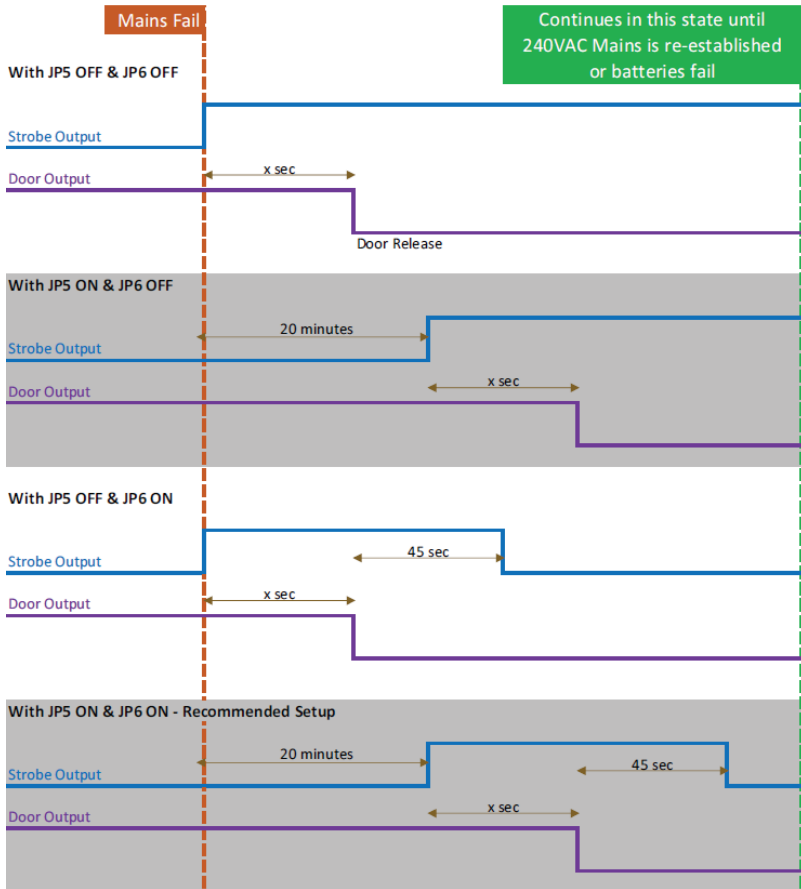
Once AC fail has been detected the sounder will immediately operate.

Installing JP5 will delay the release of the door holder according to the time given on JP1 to 4 just as it would during an Alarm. Removing JP5 allows the door holder to release immediately on the detection of an AC fail. It is recommended that JP5 be left installed to allow time for personnel to exit from the path of the sliding fire door.

Installing JP6 will turn off the sounder 45 seconds after the door has been released. Removing JP6 will allow the sounder to continue operating until such time as the batteries go flat. It is recommended that JP6 be left installed so that the batteries are not unduly stressed by running them flat.



## 22.2.4 Timelines showing JP5 & JP6 Functionality



*x sec = Time Period Setup by JP 1 - 4  
Refers to v1.1 firmware or later*

### 23 Power supply

The control panel requires a 230V (+10%/-15%), 50/60Hz, AC mains power supply which connects to the fused terminal block labelled "230V".

The fused terminal block contains a 20mm, F1.6A L250V fuse which should only be replaced with a similar type.

The output voltage of the power supply is 28V DC +/- 2V and the total current rating including a maximum 0.7A for battery charging is 3 Amps. Fuse F12 mounted on the circuit board is a self-resetting electronic fuse rated at 4 Amps.

The incoming mains cable should be routed well away from other lower voltage wiring by a distance of at least 50mm.

Mains wiring should include an earth conductor which is securely bonded to the building earth and should enter the enclosure as close as possible to the mains terminal block. Mains wires should be kept very short inside the enclosure and secured together close to the mains terminal block with a cable tie.

The control panel can accept sealed lead acid rechargeable batteries of up to 7Ah maximum capacity (see Table 2 for battery size required for each model).

The maximum current drawn from the batteries when the main power source is disconnected is 3 Amps.

Battery leads are supplied wired to the PCB along with a link to connect the two batteries in series. The PCB is fitted with a 20mm, 3.15A T1 glass fuse (F13) in the battery charging circuit which must only be replaced with one of the same type.

It is most important that the polarity of the batteries is carefully observed when connecting.

When the batteries are discharged to a level at which a low battery indication is given, the *Batt Fail* indicator will also be lit.

#### WRONGLY CONNECTED BATTERIES COULD CAUSE DAMAGE TO THE CONTROL PANEL.

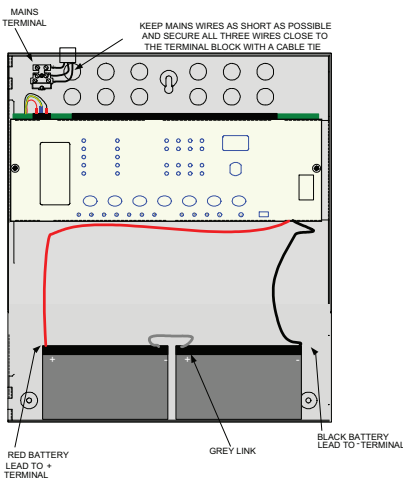


Figure 9 – Mains and battery connections

## **24 Maintenance**

Sigma DDCP control panels do not require any specific maintenance but should the control panel become dirty it can be wiped over with a damp cloth and should then be dried with a dry, lint free cloth. Detergents or solvents should not be used to clean the panel and care must be taken that water does not enter the enclosure.

The control panel contains sealed lead acid batteries to provide standby power in the event of a mains failure. These batteries have a life expectancy of around 2 years. It is recommended that these batteries be tested in accordance with the battery manufacturer's recommendations annually to determine their suitability for continued standby applications.

Routine testing of the fire alarm system in accordance with local standards will identify any malfunction of the control panel and any malfunction should be reported to the fire alarm maintenance company immediately.

Should the control panel become faulty the complete electronic assembly can be replaced.

To do this, any configured options should be noted then both mains and battery power should be removed before the work is started. The field wiring should be carefully labelled and removed from the terminals. The PCB can now be taken out of the panel by removing the screw and hinge pins holding the plate in position.

Fitting the new PCB is the reverse of the procedure for removing the board.

## **25 Zone designation label**

All Sigma DCP control panels are supplied with a zone designation label onto which zone designations can be written.

This enables each zone to be given a text description allowing easier identification of any zones showing an abnormal condition.

## 26 Record of Configuration

Use the Table below to record the configuration codes that have been set on the control panel for future reference. Place a tick in the grey band for any configuration options that are set.

It is recommended that a copy of this Table is left with the control panel under the supervision of the person responsible for the fire detection system.

CODE	FUNCTION	COMMENTS	SET
00	SOUNDER DELAY TIME = 30 SECONDS	Sets the time delay before sounders operate in combination with configuration codes 31 to 48 and access level 2 function AD.	
01	SOUNDER DELAY TIME = 1 MINUTE		
02	SOUNDER DELAY TIME = 2 MINUTES		
03	SOUNDER DELAY TIME = 3 MINUTES		
04	SOUNDER DELAY TIME = 4 MINUTES		
05	SOUNDER DELAY TIME = 5 MINUTES		
06	SOUNDER DELAY TIME = 6 MINUTES		
07	SOUNDER DELAY TIME = 7 MINUTES		
08	SOUNDER DELAY TIME = 8 MINUTES		
09	SOUNDER DELAY TIME = 9 MINUTES		
10	COMMON ALARM MODE	All sounders operate upon any fire condition	
11	TWO-STAGE ALARM MODE	Continuous sounders in activated zone, pulsing elsewhere	
12	ZONED ALARM MODE	Only sounders connected to zone in alarm operate	
21*	DISABLE FIRE BUZZER	Buzzer will not operate on fire condition	
22*	DISABLE FAULT OUTPUT	Fault relay will not operate except upon total power failure	
23	DISABLE EARTH FAULT MONITORING	Connection of fire alarm wiring will not announce a fault	
24	PULSED REMOTE CONTROL OUTPUT	Aux 24V supply pulses 1 sec on/1 sec off	
25	ENABLE SOUNDERS ON DETECTION CIRCUITS	Set as default if panel is two wire "T" series (detectors and call points on same cables)	
26	DISABLE FIRE OUTPUT	Fire relay will not operate upon any alarm	
27	REMOVE AUX 24 UPON PANEL RESET	24V supply switches off for about 5 seconds when panel is reset	
28	INDICATE CALL POINT ACTIVATION	Activation of a call point with a 270R resistance fitted is indicated by a flashing zone indicator and "Pu" on the 7 segment display. Activation of a detector will be indicated by a steady zone indicator and nothing on the 7 segment display	
29	DO NOT RE-SOUND ALARMS FROM ANOTHER ZONE	Silenced sounders will not re-sound upon further zone activations	
31	ZONE 1 ALARM FROM DETECTOR DELAYED	Sounder outputs will be delayed by time set at options 0-9 when selected zone(s) triggered by detector only. Note access level 2 function Ad must be set for this to take effect.	
32	ZONE 2 ALARM FROM DETECTOR DELAYED		
33	ZONE 3 ALARM FROM DETECTOR DELAYED		
34	ZONE 4 ALARM FROM DETECTOR DELAYED		
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52	COINCIDENCE ZONE 2		
53	COINCIDENCE ZONE 3		
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56	COINCIDENCE ZONE 6		
57	COINCIDENCE ZONE 7		
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62	CONFIGURE Z2 FOR I.S BARRIER		
63	CONFIGURE Z3 FOR I.S BARRIER		
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CODE	FUNCTION	COMMENTS	SET
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77*	ZONE 7 SHORT CIRCUIT INDICATES ALARM		
78*	ZONE 8 SHORT CIRCUIT INDICATES ALARM		
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86*	ZONE 6 NON-LATCHING		
87*	ZONE 7 NON-LATCHING		
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97	ZONE 7 DOES NOT SOUND ALARMS		
98	ZONE 8 DOES NOT SOUND ALARMS		
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A1*	ZONE 1 ANY ALARM DELAYED	Zone needs to be triggered for 30 seconds continuously before an alarm is generated.	
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A3*	ZONE 3 ANY ALARM DELAYED		
A4*	ZONE 4 ANY ALARM DELAYED		
A5*	ZONE 5 ANY ALARM DELAYED		
A6*	ZONE 6 ANY ALARM DELAYED		
A7*	ZONE 7 ANY ALARM DELAYED		
A8*	ZONE 8 ANY ALARM DELAYED		
C1	ZONE 1 SOUNDERS INHIBITED	Enables individual zones to be configured not to operate zonal sounders. On 2 wire "T" series panels this enables individual zones to be configured for use with conventional (non-sawwire) detector bases.	
C2	ZONE 2 SOUNDERS INHIBITED		
C3	ZONE 3 SOUNDERS INHIBITED		
C4	ZONE 4 SOUNDERS INHIBITED		
C5	ZONE 5 SOUNDERS INHIBITED		
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C8	ZONE 8 SOUNDERS INHIBITED		
E1*	ZONE 1 WILL NOT OPERATE FIRE RELAY	Enables individual zones to be selected to not operate the fire relay. This is sometimes combined with the non-latching function to prevent ring around on interconnected panels.	
E2*	ZONE 2 WILL NOT OPERATE FIRE RELAY		
E3*	ZONE 3 WILL NOT OPERATE FIRE RELAY		
E4*	ZONE 4 WILL NOT OPERATE FIRE RELAY		
E5*	ZONE 5 WILL NOT OPERATE FIRE RELAY		
E6*	ZONE 6 WILL NOT OPERATE FIRE RELAY		
E7*	ZONE 7 WILL NOT OPERATE FIRE RELAY		
E8*	ZONE 8 WILL NOT OPERATE FIRE RELAY		

**NOTE: Setting the options marked with asterisks does not comply with AS7240-2**

## 27 Installation Details & Setup

Site Name: \_\_\_\_\_

Site Address: \_\_\_\_\_

\_\_\_\_\_

Door Location: \_\_\_\_\_

### Sliding Fire Door Interface Jumper Settings

Optional Jumper	Not Installed	Installed	Factor Setup
JP 6			Installed
JP 5			Installed
JP 4			Not Installed
JP 3			Not Installed
JP 2			Installed
JP 1			Installed

Date of Installation: \_\_\_\_\_

Installation Company: \_\_\_\_\_

### Additional Notes



## **Sydney**

Block Y, Unit 1, 391 Park Road, REGENTS PARK NSW 2143  
Mail: PO Box 508 GYMEA NSW 2227  
Phone: 1300 INCITE (1300 462 483) | 02 9644 7144  
Fax: 02 9644 7255  
Email: [sales@incitefire.com.au](mailto:sales@incitefire.com.au)  
Technical support: [support@incitefire.com.au](mailto:support@incitefire.com.au)

## **Melbourne**

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Fax: 03 9544 2212  
Email: [salesvic@incitefire.com.au](mailto:salesvic@incitefire.com.au)

## **Brisbane**

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Fax: 07 3252 4099  
Email: [salesqld@incitefire.com.au](mailto:salesqld@incitefire.com.au)

## **Perth**

Address: Unit 2, 48 Irvine Drive, MALAGA WA 6090  
Phone: 08 9349 2972  
Email: [saleswa@incitefire.com.au](mailto:saleswa@incitefire.com.au)