# Sigma CP (K and T Series)

**Conventional Fire Control Panel** (K11020M2, K11040M2, K11080M2) (T11020M2, T11040M2, T11080M2)

## **Operation and Maintenance Manual**

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## 1. Introduction

The SIGMA CP range consists of a series of conventional fire alarm control panels designed in accordance with European standards EN54-2 and EN54-4 Fire Detection and Fire Alarm systems - Control and Indicating Equipment.

The range consists of 2, 4 and 8 zone control panels. All control panels are available in two versions:

Sigma K11 range in which detectors and call points are wired on separate circuits to sounders (two sounder circuits are provided).

Sigma T11 range in which detectors, call points and sounders are wired to the same pair of cables. This is what is commonly referred to as a two-wire system.

Wiring sounders to the detection circuits eliminates the need to install sounder circuit cables and also offers the ability to provide zoned or two stage sounder operation.

All control panels have an integral, mains powered battery charger and power supply designed in accordance with the requirements of EN54-4.

In addition to the requirements of EN54-2 the control panel has the following facilities:

.....*Test condition* to allow the automatic resetting of zones in alarm for testing purposes. EN54-2 Section 10 option with requirements.

.....*Delay of the actioning* of fire alarm devices (sounders) so that an alarm may be verified before a premises is evacuated. EN54-2 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. EN54-2 Section 7.8 option with requirements.

In addition to the requirements of EN54-2, all control panels have voltage free relay contacts for fire and local fire which operate upon fire condition. These are to be used for local control and signalling.

## 2. Safety and mounting

Suppliers of articles for use at work are required under section 6 of the Health and Safety at Work act 1974 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) IEE regulations for electrical equipment in buildings
- (ii) Codes of practice
- (iii) Statutory requirements
- (iv) Any instructions specifically advised by the manufacturer

According to the provisions of the Act 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 meeting the requirements of EN60950/IEC950 which disconnects live and neutral simultaneously shall be incorporated in the fixed wiring.

Switch disconnect devices such as MK Sentry 63A or similar are suitable for this.

## 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  $-5^{\circ}C$  (+/- 3) and +40°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.

#### 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 three mounting positions.

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.

## 3. Technical specification

Table 1 - Electrical specifications

Mains supply	230V AC +10% - 15% (100 Watts maximum)	
Mains supply fuse	1.6Amp (F1.6A L250V)	Replace only with similar type
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)	See table 2 for capacities
Battery charge voltage	27.6VDC nominal (temperature compensated)	See table 3
Battery charge current	0.7A maximum	
Battery lead fuse	20mm, 3.15A glass	Replace only with the same type
Battery high impedance warning	1.35 ohms max	
(Rimax)		
Low battery voltage indication	21V +/- 2%	
Low battery shut off voltage	18.5V +/- 2%	
Maximum current draw from batteries	3 Amps	With main power source disconnected
R0V output	Fused at with electronic fuse	
Dedicated sounder outputs	24V Fused at 500mA with electronic fuse	1.6 Amp total load over <u>all</u> circuits
Zonal sounder outputs	24V Fused at 500mA with electronic fuse	1.6 Amp total load over <u>all</u> circuits
Fault relay contact rating	30VDC 1A Amp maximum for each	Maximum ratings not to be exceeded
Fire relay contact rating	30VDC 1A Amp maximum for each	Maximum ratings not to be exceeded
Local fire relay contact rating	30VDC 1A Amp maximum for each	Maximum ratings not to be exceeded
Zone quiescent current	1.6mA maximum	See table 4 for detector types
Terminal capacity	0.5mm <sup>2</sup> to 2.5mm <sup>2</sup> solid or stranded wire	
Number of detectors per zone	> 20	Dependent on type
Number of sounders per circuit	Dependent on type and current consumption	See table 6 for sounder types
Detection circuit end of line	6K8 5% 1/2 Watt resistor	Supplied in terminals
Sounder circuit end of line	10K 5% ¼ Watt resistor	Supplied in terminals
No. of detection circuits	(see table 2 for number of zones for each model)	Dependent on model
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	Zener clamp detector base to be used
Cabling	FP200 or equivalent (maximum capacitance 1uF	Metal cable glands must be used
-	maximum inductance 1 millihenry)	

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
K11020 (2 Zones)	3Ah	4.6Ah	6.2Ah	0.065	0.10A
K11040 (4 Zones)	3.3Ah	5.1Ah	6.9Ah	0.075	0.21A
K11080 (8 Zones)	3.75Ah	5.95Ah	8.2Ah	0.093A	0.55A
T11020 (2 Zones)	3Ah	4.6Ah	6.2Ah	0.065	0.15A
T11040 (4 Zones)	3.3Ah	5.1Ah	6.9Ah	0.075	0.30A
T11080 (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	29.2
10	28.56
20	27.99
30	27.55
40	27.13

Table 4 - Compatible detectors

Model	Туре	Manufacturer	Maximum Number per zone
SLR-E	OPTICAL	Hochiki	32
SIJ-E	IONISATION	Hochiki	32
DCD-1E	HEAT	Hochiki	32
DCD-2E	HEAT	Hochiki	32
DCD-1RE	HEAT	Hochiki	32
DFG-60E	HEAT	Hochiki	32
DFJ-60E	HEAT	Hochiki	32
DFJ90-E	HEAT	Hochiki	32
SPB-ET	BEAM	Hochiki	8
SRA-ET	BEAM	Hochiki	5
55000-200/210 - SERIES 60	IONISATION	Apollo	32
55000-300 - SERIES 60	OPTICAL	Apollo	32
55000-100 - SERIES 60	HEAT	Apollo	32
55000-101 - SERIES 60	HEAT	Apollo	32
55000-102 - SERIES 60	HEAT	Apollo	32
55000-103 - SERIES 60	HEAT	Apollo	32
55000-104 - SERIES 60	HEAT	Apollo	32
<i>55000-215</i> – SERIES 65	IONISATION	Apollo	32
55000-216 - SERIES 65	IONISATION	Apollo	32
55000-217 - SERIES 65	IONISATION	Apollo	32
55000-218 - SERIES 65	IONISATION	Apollo	32
55000-219 - SERIES 65	IONISATION	Apollo	32
55000-220 - SERIES 65	IONISATION	Apollo	32
55000-315 - SERIES 65	OPTICAL	Apollo	32
55000-316 - SERIES 65	OPTICAL	Apollo	32
55000-317 - SERIES 65	OPTICAL	Apollo	32
55000-120 - SERIES 65	HEAT	Apollo	32
55000-121 - SERIES 65	HEAT	Apollo	32
55000-122 - SERIES 65	HEAT	Apollo	32
53541-151 – SERIES 30	IONISATION	Apollo	32
53541-152 – SERIES 30	IONISATION	Apollo	32
53551-101 – SERIES 30	OPTICAL	Apollo	32
53531-221 - SERIES 30	HEAT	Apollo	28
53531-211 - SERIES 30	HEAT	Apollo	28
53531-212 - SERIES 30	HEAT	Apollo	28
53531-213 - SERIES 30	HEAT	Apollo	28
53531-214 - SERIES 30	HEAT	Apollo	28
AS100	OPT	Argus Vega	22
AS200	OPT/HEAT	Argus Vega	22
AS300	HIGH TEMP HEAT	Argus Vega	26
AS400	RATE OF RISE HEAT	Argus Vega	26
NID-58	IONISATION	Nittan	32
2KC/2KD	OPTICAL	Nittan	32
2SA-LS/2SA-70T-LS	HEAT	Nittan	32
TCA-70-LS	HEAT	Nittan	32
NFD-18-2/NFD-18-5	FLAME	Nittan	3
NID-48F	IONISATION	Nittan	32
NS-12-7	HEAT	Nittan	32
NC-9C-70T	HEAT	Nittan	32
ECO1002	ΗΕΑΤ/ΡΗΟΤΟ	System Sensor	21
ECO1003	РНОТО	System Sensor	26
ECO1005	HEAT	System Sensor	22
ECO1005T	HEAT	System Sensor	22

Although the current consumption of many detection devices would allow more than 32 to be connected to a zone, this number should be limited to 32 to ensure that a short or open circuit on the wiring does not prevent the indication of a fire alarm from more than 32 fire detectors and/or call points as required by European standard EN54-2.

#### No more than 32 detectors and call points should be fitted to any one zone.

Model	Туре	Manufacturer	Comments
YBN-R/4	STANDARD	Hochiki	
YBO-R/5	STANDARD WITH REMOTE LED	Hochiki	
YBN-R/4SK	DIODE BASE	Hochiki	Must be used with LCMU*
YBO-R/5SK	DIODE BASE WITH REMOTE LED	Hochiki	Must be used with LCMU*
YBO-R/5PA	SAVWIRE	Hochiki	Only with T series panels
ECO1000R	STANDARD	System Sensor	
ECO1000BRSD	DIODE BASE	System Sensor	Must be used with LCMU*
45681-200	STANDARD BASE	Apollo	
45681-201	DIODE BASE	Apollo	Must be used with LCMU*
45681-206	SAVWIRE BASE	Apollo	Only with T Series Panels
AUBDR100-470	470R RESISTOR + DIODE	Argus Vega	Must be used with LCMU*
AUBSR100-470	470R RESISTOR	Argus Vega	
MCP1BR	470R RESISTOR + DIODE	КАС	For 2-wire systems
WR2012	470 + 680 OHM CALL POINT	КАС	Use with both resistors intact for call point discrimination
MCP1AR	470R	KC	For standard, 4-wire systems
СХ	470 OHM CALL POINT	Fulleon	
NCP-T	CALL POINT	Nittan	
	ELECTRONICS FREE BASES	ALL	

Table 5 - Compatible detector bases and call points

Note: LCMU (Line Continuity Monitoring Device) part number K1406 allows call points mounted downline of detectors that have been removed from diode bases to continue to operate. \*LCMU units are not compatible with 2 wire "T" series Sigma CP Panels.

Table 6 - Com	patible sounders
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Model	Туре	Manufacturer	Comments
BANSHEE	ELECTRONIC	VIMPEX	
WAFER	ELECTRONIC	VIMPEX	
FIRECRYER RANGE	ELECTRONIC VOICE	VIMPEX	
KOBELL	MOTORISED	VIMPEX	
ASKARI	ELECTRONIC	FULLEON	Standard polarised type only
ROSHNI	ELECTRONIC	FULLEON	Standard polarised type only
SQUASHNI	ELECTRONIC	FULLEON	Standard polarised type only
SYMPHONI	ELECTRONIC	FULLEON	Standard polarised type only
ELECTRONIC BELL	ELECTRONIC	FULLEON	Standard polarised type only
CFB BELLS	MOTORISED	FULLEON	Standard polarised type only
B6 AND B8 BELLS	SOLENOID	FULLEON	Standard polarised type only

Table	7 -	Com	patible	1.S.	barriers

Model	Туре	Manufac turer
MTL5561	DETECTION ZONE GALVANIC ISOLATOR	MTL
MTL7778ac	SOUNDER CIRCUITS SI AND S2 ONLY	MTL

Note: Use galvanic isolator with Hochiki or Apollo detectors only.

## 4. Using intrinsically safe barriers

SIGMA CP 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 so 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.

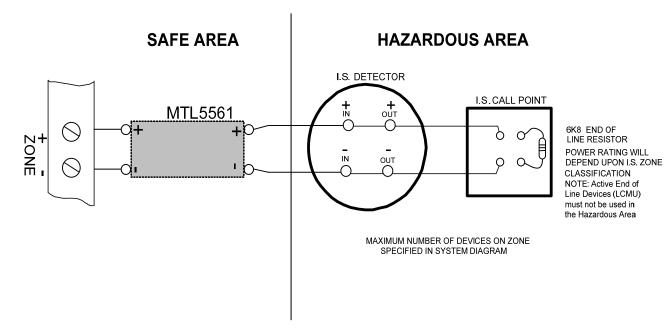


Figure 1. Detection zone wiring through an MTL5561 I.S .barrier

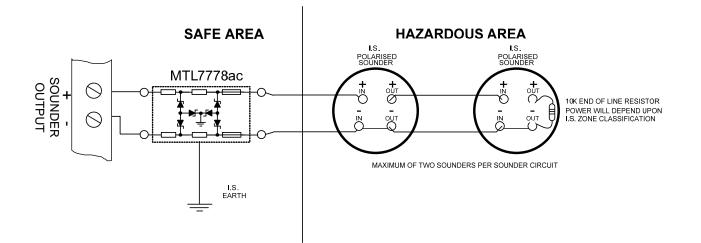
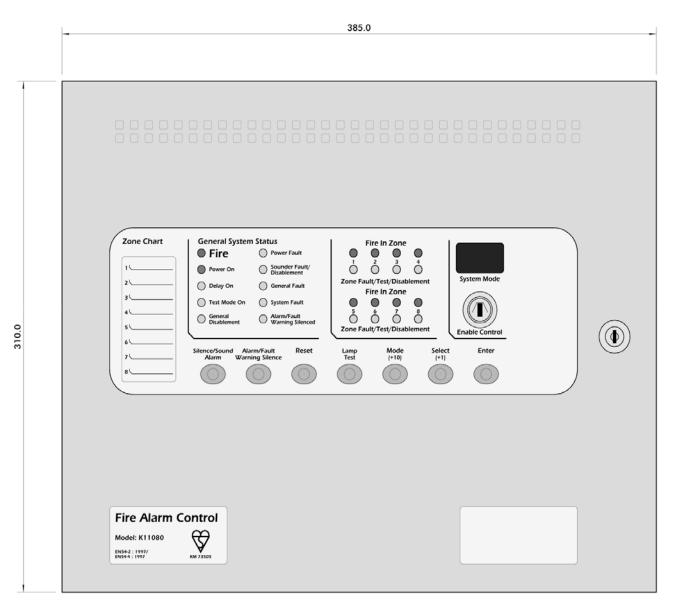


Figure 2. Sounder circuit wiring through an MTL7778ac I.S. barrier

## 5. Control panel fascia



In addition to the mandatory controls and indications required by the EN54-2 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.

#### Removing the fascia

Before the fascia can be removed it will be necessary to unplug the three way terminal block on the left hand side of the PCB.

The fascia of the control panel is held in place by countersunk screws. Undo the two screws and lift the fascia gently away from the box towards you.

With the fascia removed there is much more room inside the panel for making off and dressing cables.

When cabling work is complete the fascia can be re-fitted with the two countersunk screws and the red, green/yellow and black wires re-connected to the three way terminal block.

## It is most important that the polarity of the red and black wires is observed as wrong connection of these will damage the control panel.

## 6. Connecting to the circuit board

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 the plate/PCB assembly. Remove this pluggable terminal only with mains power off. Shielded fire alarm cable such as FP200 and metal cable glands must be used for all connections to the panel.

The resistance of any core of any cable must not exceed 25 ohms. The shield of the cable must be bonded securely to the enclosure via a metal gland.

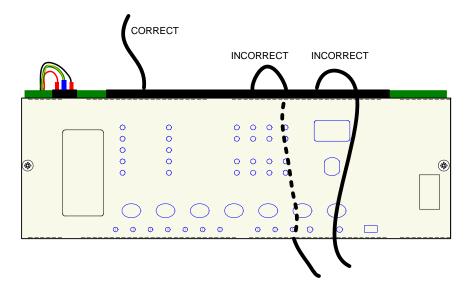
Wiring should enter the enclosure at the top of the panel using the knockouts provided and be formed tidily to the appropriate terminals leaving only enough wire to ensure that there is no strain on the PCB. Terminals are capable of accepting wires of up to 2.5mm<sup>2</sup>.



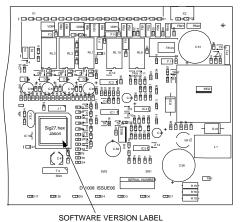
#### Terminal designations

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.



### 7. Software revision number



New features may be added to Sigma CP 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 CP ancillary board, sounders boards, repeaters etc.

### 8. Detection zone wiring

The detection zones provide a nominal 24V DC to power conventional detectors and call points as listed in the compatibility tables on pages 6 and 7.

The wiring is monitored for open and short circuit fault conditions by removing the 6K8 end of line monitoring resistors that are supplied fitted to the control panels' terminals and placing them across the last device that is wired to the zone circuit.

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.

On T series panels, polarised sounders must also be wired across the detection zone but in reverse polarity to that shown by the zone terminals (see figure 5 below). At least one sounder should be fitted to each detection zone. 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.

For non 2-wire systems that are required to comply with BS5839 Part 1: 2002 detector removal requirements, detector bases fitted with a Schottky diode should be used and the end of line resistor replaced with an LCMU active end of line monitoring device.

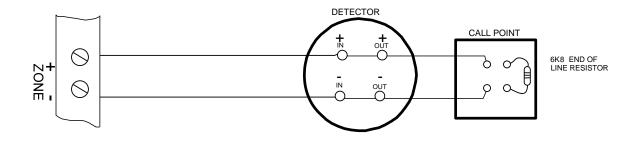


Figure 4.– K Series detection zone wiring

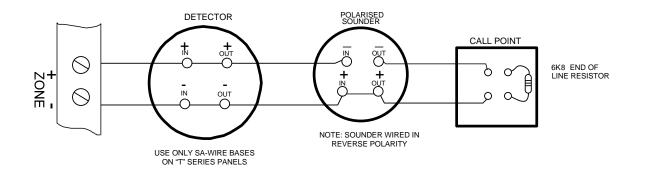


Figure 5.- T series detection zone wiring

## 9. Sounder circuit wiring

Whether using standard or T series control panels, all sounders must be of the polarised type. If non-polarised sounders are used the control panel will permanently show a fault condition. See table 6 on page 7 for a list of compatible sounder types.

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.

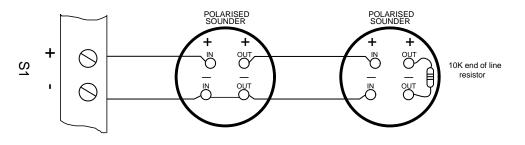


Figure 6. - Sounder circuit wiring

## **10.** 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 EN54-2 These are abbreviated at the terminals block as follows:

- a) Remote 0 V supply ROV
- b) Silence Alarm SIL
- c) Sound Alarm AL
- d) Fault FLT
- e) Reset RST

To activate these inputs, the remote 0 Volt (ROV) 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.

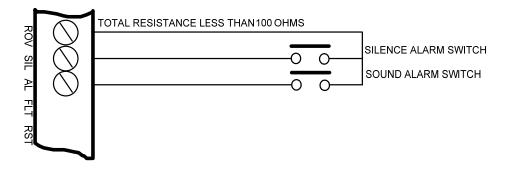


Figure 7- Example connections to remote control inputs

## 11. 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, volt 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 CP sounder boards, a separate power supply should be used for these.

## **12. 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 on page 5 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.

### **13. Connection to Repeater panels**

Repeater panels connect via a 2 core cable to the terminals marked RS485 + and – on the Sigma CP main control panel PCB. Up to 7 repeaters may be connected and each repeater has terminals for the incoming cables and outgoing cables. All except the last ancillary board, sounder board or repeater panel connected to the cable must have the jumper links J2 removed.

Set the repeater address using the DIP switch (SW7); ensure no two repeaters share the same address. Apply power to main panel first and then all repeater panels. 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 repeaters that were found on the display for instance r1 indicates that a repeater at address 1 has been found.

Turn the write enable switch of, then on again and then press the ENTER button to accept each repeater that has been found. When all repeaters have been added, set the main panel Write Enable switch to off. Press the Watchdog reset switch on the main panel.

All repeaters are now configured and the main control panel will report a fault if any repeaters that have been accepted become faulty or go off line.

For full details of commissioning procedures for repeaters see the Sigma CP Repeater Operation and maintenance manual.

Please note that repeaters can only be fitted to panels containing boards labeled S4XXA or above. They will not work with panels containing boards without an alpha suffix.

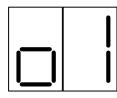
For panels with software version Sigma242.hex or below, the Enable controls keyswitch and Write Enable switch must both be set to off.

## 14. Connection to Ancillary boards

Ancillary boards connect via a 2 core cable to the terminals marked RS485 + and – on the Sigma CP main control panel PCB. Up to 7 Ancillary boards may be connected and each board has terminals for the incoming cables and outgoing cables. All except the last ancillary board, sounder board or repeater panel connected to the cable must have the jumper links J2 removed.

Set the ancillary board address using the DIP switch (SW2); ensure no two ancillary boards share the same address.

Apply power to main panel and all ancillary boards then turn on the enable keyswitch and set the write enable slide switch to on, 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 ancillary boards that were found on the display for instance o1 indicates that an ancillary board at address 1 has been found. Press the ENTER button to accept each ancillary board that has been found.



The control panel will report a fault if any ancillary boards that have been accepted become faulty or go off line.

For full details of commissioning procedures for ancillary boards see the Sigma CP Ancillary board Operation and maintenance manual.

Please note that Ancillary boards can only be fitted to panels containing boards labelled S4XXA or above. They will not work with panels containing boards without an alpha suffix.

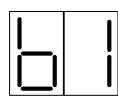
## 15. Connection to 8 way Sounder boards

Sounder boards connect via a 2 core cable to the terminals marked RS485 + and – on the Sigma CP main control panel PCB. Up to 7 Sounder boards may be connected and each board has terminals for the incoming cables and outgoing cables. All except the last Ancillary board, Sounder board or Repeater connected to the cable must have the jumper links J2 removed. Sounder boards must be powered from a separate power supply which is suitably rated to supply the full sounder load that is connected. This can be up to 4 Amps if all circuits are fully loaded.

Set the Sounder board address using the DIP switch (SW2); ensure no two Sounder boards share the same address.

Apply power to main panel and all Sounder boards then turn on the enable keyswitch and set the write enable slide switch to on, 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 sounder boards that were found on the display for instance b1 indicates that a sounder board at address 1 has been found.

Press the ENTER button to accept each Sounder board that has been found.



The control panel will report a sounder fault if any Sounder boards that have been accepted become faulty, have cable faults on their outputs or go off line.

For full details of commissioning procedures for Sounder boards see the Sigma CP Sounder board Operation and maintenance manual.

## Please note that Sounder boards can only be fitted to panels containing software SIGMA242.HEX or later.

Man-1078\_Sigma\_CP\_19

## 16. Panel operation

#### 16.1 Normal condition

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

#### 16.2 Fire condition

Upon receipt of a fire condition by activation of a detector or call point, the *Common Fire* indicator will light and the zonal *Fire* 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).

#### 16.3 Silence/sound alarms

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

To silence the sounders, insert the Enable Control key 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.

#### 16.4 Reset

To reset the panel, insert the Enable key then press the Reset button.

#### 16.5 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.

#### 16.6 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.

#### 16.7 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.

#### 16.8 System fault

The *System Fault* LED will light if the configuration memory has not been set or has become corrupt.

#### 16.9 Lamp test

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

The buzzer can be silenced at any time by pressing the *Buzzer Silence* button. The enable key does not need to be inserted to silence the buzzer.

#### 16.10 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.

#### 16.10.1 Disable zones

To disable zones, the *Enable Control* key should be inserted 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.

A disabled zone is shown on the seven segment display as 'dx.' (where x is the zone number from 1-8).

If the 'x' is flashing, it means that there are activated devices in that zone and re-enabling it will put the control panel into the fire condition.

The panel should be Reset before enabling any zone with a flashing "dx." Indication

Note: The flashing "dx" indicator will only appear on panels with software version **sigma\_CP 214.hex** and higher produced after July 2012.

#### 16.10.2 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.

#### 16.10.3 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.

#### 16.10.4 Disable fault contact

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

#### 16.11 Test mode

Fire alarm systems must be tested regularly to ensure that they are functioning correctly. The Sigma CP 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* key inserted, 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.

### **17. Configuration options**

The Sigma CP 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.

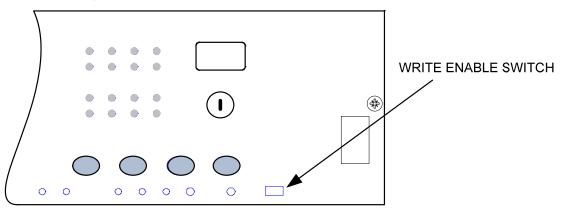


Figure 8 – Access level 3 (Write enable) enable switch location

Configuration options are simple to enter using the codes in table 8 below. 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.

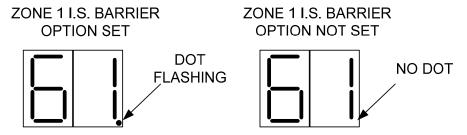


Figure 9 – Example display showing option set and not set.

#### Table 8 – Configuration codes

CODE	FUNCTION	COMMENTS
00	SOUNDER DELAY TIME = 30 SECONDS	Sets the time delay before sounders operate in combination with
01	SOUNDER DELAY TIME = 1 MINUTE	configuration codes 31 to 48 and access level 2 function AD.
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	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
21		Counder outputs will be deleved by time out at entires
31	ZONE 1 ALARM FROM DETECTOR DELAYED	Sounder outputs will be delayed by time set at options
32	ZONE 2 ALARM FROM DETECTOR DELAYED	0-9 when selected zone(s) triggered by detector only. Note: Access level 2 function Ad must be set for this to take
33	ZONE 3 ALARM FROM DETECTOR DELAYED	effect.
34	ZONE 4 ALARM FROM DETECTOR DELAYED	
35	ZONE 5 ALARM FROM DETECTOR DELAYED	4
36 37	ZONE 6 ALARM FROM DETECTOR DELAYED ZONE 7 ALARM FROM DETECTOR DELAYED	-
37	ZONE 8 ALARM FROM DETECTOR DELATED	-
30	ZONE & ALARM FROM DETECTOR DELATED	
41	ZONE 1 ALARM FROM CALL POINT DELAYED	Sounder outputs will be delayed by time set at options
41	ZONE 2 ALARM FROM CALL POINT DELAYED	0-9 when selected zone(s) triggered by call point only.
42	ZONE 2 ALARM FROM CALL POINT DELATED	Note access level 2 function Ad must be set for this to take
43	ZONE 3 ALARM FROM CALL POINT DELATED	effect.
44	ZONE 5 ALARM FROM CALL POINT DELATED	4
45	ZONE 5 ALARM FROM CALL POINT DELATED	4
40	ZONE 7 ALARM FROM CALL POINT DELATED	4
47	ZONE 8 ALARM FROM CALL POINT DELATED	4
-10		
51	COINCIDENCE ZONE 1	Zone contributes to ancillary board coincidence O/P. Any
52	COINCIDENCE ZONE 2	number of zones can be selected to contribute.
53	COINCIDENCE ZONE 3	
54	COINCIDENCE ZONE 4	1
55	COINCIDENCE ZONE 5	1
56	COINCIDENCE ZONE 6	4
57	COINCIDENCE ZONE 7	4
58	COINCIDENCE ZONE 8	4
- 50		
61	CONFIGURE Z1 FOR I.S BARRIER	Detection threshold changed for use with IS barrier
62	CONFIGURE Z2 FOR I.S BARRIER	
52		

(0)		
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	
00		
CODE	FUNCTION	COMMENTS
71*	ZONE 1 SHORT CIRCUIT INDICATES ALARM	Changes the trigger threshold of the
72*	ZONE 2 SHORT CIRCUIT INDICATES ALARM	zone so that the control panel can be
73*	ZONE 3 SHORT CIRCUIT INDICATES ALARM	used on older systems that had no short
74*	ZONE 4 SHORT CIRCUIT INDICATES ALARM	circuit monitoring.
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
82*	ZONE 2 NON-LATCHING	it can be used to receive signals from
83*	ZONE 3 NON-LATCHING	other systems and will reset when the
84*	ZONE 4 NON-LATCHING	input is removed.
85*	ZONE 5 NON-LATCHING	Note: It can take up to 20 seconds for zone to reset itself when
		sounders are operating
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
92	ZONE 2 DOES NOT SOUND ALARMS	outputs.
93	ZONE 3 DOES NOT SOUND ALARMS	
94	ZONE 4 DOES NOT SOUND ALARMS	
95	ZONE 5 DOES NOT SOUND ALARMS	
95		
_	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
A2*	ZONE 2 ANY ALARM DELAYED	before an alarm is generated.
A3*	ZONE 3 ANY ALARM DELAYED	
A4*	ZONE 4 ANY ALARM DELAYED	
A5*	ZONE 5 ANY ALARM DELAYED	
A5 A6*		
-	ZONE 6 ANY ALARM DELAYED	<u> </u>
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
C2	ZONE 2 SOUNDERS INHIBITED	sounders.
C3	ZONE 3 SOUNDERS INHIBITED	On 2 wire "T" series panels this enables individual zones to be
C4	ZONE 4 SOUNDERS INHIBITED	configured for use with conventional (non 2-wire) detector
C5	ZONE 5 SOUNDERS INHIBITED	bases.
C6	ZONE 6 SOUNDERS INHIBITED	
C7	ZONE 7 SOUNDERS INHIBITED	
		SOFTWARE VERSIONS SIGMA242.HEX and above only
C8	ZONE 8 SOUNDERS INHIBITED	
E1*	ZONE 1 WILL NOT OPERTATE FIRE RELAY	Enables individual zones to be selected to not operate the fire
E2*	ZONE 2 WILL NOT OPERTATE FIRE RELAY	relay. This is sometimes combined with the non-latching
E3*	ZONE 3 WILL NOT OPERTATE FIRE RELAY	function to prevent ring around on interconnected panels.
E4*	ZONE 4 WILL NOT OPERTATE FIRE RELAY	
E5*	ZONE 5 WILL NOT OPERTATE FIRE RELAY	
E6*	ZONE 5 WILL NOT OPERTATE FIRE RELAY	
E7*	ZONE 7 WILL NOT OPERTATE FIRE RELAY	SOFTWARE VERSIONS SIGMA242.HEX and above only
E8*	ZONE 8 WILL NOT OPERTATE FIRE RELAY	

#### NOTE: Setting the options marked with asterisks does not comply with EN54-2

Once the required configuration options have been set, the Write enable switch **must** be returned to its normal position to the right. The General fault indicator will remain lit if the Write enable switch is not turned off.

## 18. 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 FAULT LEDs on the front panel, the CPU fault LED 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 can not be silenced and will continue to sound until the watchdog activation is reset.

### **19. 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.

### 20. 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:

#### 20.1 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.

#### 20.2 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 battery. Disconnect battery and ensure that 28 Volts can be measured on battery charger leads.

#### 20.3 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. Press watchdog reset. If system does not return to normal then the panel is probably damaged and needs the circuit board replacing. (See maintenance section).

#### 20.4 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.

#### 20.5 Batt low

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

#### 20.6 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.

#### 20.7 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.

#### 20.8 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.

#### 20.9 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.

## 21. 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.

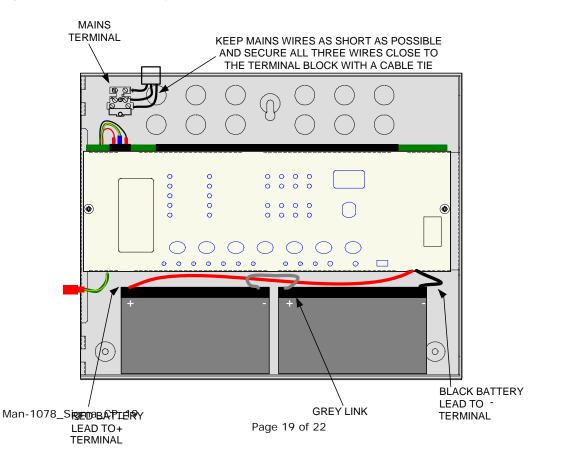
Battery leads are supplied wired to the PCB along with a link to connect the two batteries in series. The PCB is fitted with a 20mm, 3.15A T1 glass fuse (F13) in the battery charging circuit which must only be replaced with one of the same type.

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



## 22. Maintenance

Sigma CP 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 4 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 BS5839: Part 1: 2002 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.

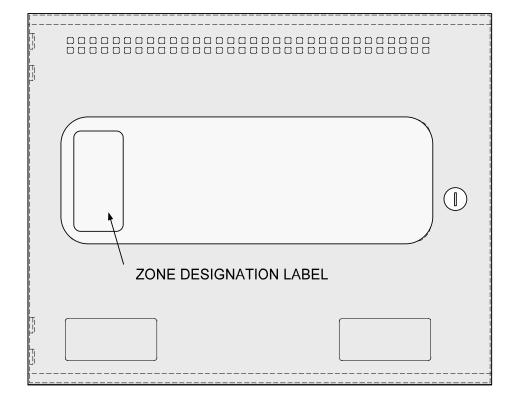
The field wiring should be carefully labelled and removed from the terminals.

The PCB can now be taken out of the panel by removing the 2 holding the plate in position. Fitting the new PCB is the reverse of the procedure for removing the board.

## 23. Zone designation label

All Sigma CP 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.



## 24. 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	311
01	SOUNDER DELAY TIME = 1 MINUTE	configuration codes 31 to 48 and access level 2 function AD.	
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 07	SOUNDER DELAY TIME = 6 MINUTES SOUNDER DELAY TIME = 7 MINUTES		├
07	SOUNDER DELAY TIME = 7 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* 23	DISABLE FAULT OUTPUT DISABLE EARTH FAULT MONITORING	Fault relay will not operate except upon total power failure Connection of fire alarm wiring will not announce a fault	
23	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	Silenced sounders will not re-sound upon further zone activations	
	ZONE		
31	ZONE 1 ALARM FROM DETECTOR DELAYED	Sounder outputs will be delayed by time set at options	
32	ZONE 2 ALARM FROM DETECTOR DELAYED	0-9 when selected zone(s) triggered by detector only.	
33	ZONE 3 ALARM FROM DETECTOR DELAYED	Note access level 2 function Ad must be set for this to take effect.	
34 35	ZONE 4 ALARM FROM DETECTOR DELAYED		
35 36	ZONE 5 ALARM FROM DETECTOR DELAYED ZONE 6 ALARM FROM DETECTOR DELAYED		
30	ZONE 7 ALARM FROM DETECTOR DELATED		
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	
42	ZONE 2 ALARM FROM CALL POINT DELAYED	0-9 when selected zone(s) triggered by call point only.	
43	ZONE 3 ALARM FROM CALL POINT DELAYED	Note access level 2 function Ad must be set for this to take	
44 45	ZONE 4 ALARM FROM CALL POINT DELAYED ZONE 5 ALARM FROM CALL POINT DELAYED	effect.	
45 46	ZONE 5 ALARM FROM CALL POINT DELAYED ZONE 6 ALARM FROM CALL POINT DELAYED		
40	ZONE 7 ALARM FROM CALL POINT DELAYED		<b>├──</b> ┤
48	ZONE 8 ALARM FROM CALL POINT DELATED		
51	COINCIDENCE ZONE 1	Zone contributes to ancillary board coincidence O/P. Any number	
52	COINCIDENCE ZONE 2	of zones can be selected to contribute.	
53	COINCIDENCE ZONE 3		
54	COINCIDENCE ZONE 4		
55			<u> </u>
56 57	COINCIDENCE ZONE 6 COINCIDENCE ZONE 7		<b>├</b> ───┤
57	COINCIDENCE ZONE 7		
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 LS BARRIER		
67 68	CONFIGURE Z7 FOR I.S BARRIER CONFIGURE Z8 FOR I.S BARRIER		┝───┤
00	CONTIGURE 20 FOR 1.3 DARRIER		

71*     ZONE 1 SHORT CIRCUIT INDICATES ALARM     Changes the trigger threshold of the       72*     ZONE 3 SHORT CIRCUIT NOICATES ALARM     Zone so that the control panel can be       74*     ZONE 4 SHORT CIRCUIT NOICATES ALARM     zone so that the control panel can be       75*     ZONE 5 SHORT CIRCUIT NOICATES ALARM     circuit monitoring.       76*     ZONE 6 SHORT CIRCUIT NOICATES ALARM     circuit monitoring.       76*     ZONE 6 SHORT CIRCUIT NOICATES ALARM     circuit monitoring.       78*     ZONE 7 NON-LATCHING     the short circuit noicates ALARM       78*     ZONE 7 NON-LATCHING     the short circuit noicates alard to receive signals from       81*     ZONE 7 NON-LATCHING     other systems and will reset when the       82*     ZONE 1 NON-LATCHING     other systems and will reset when the       84*     ZONE 1 NON-LATCHING     other systems and will reset when the       85*     ZONE 1 NON-LATCHING     non-LATCHING       86*     ZONE 1 NON-LATCHING     Note: It can take up to 20 seconds for zone to reset itself when sounders are operating       97     ZONE 1 DOES NOT SOUND ALARMS     Prevents the zone from operating the two common sounder outputs       97     ZONE 1 DOES NOT SOUND ALARMS     Prevents the zone from operating the two common sounder outputs       98     ZONE 1 DOES NOT SOUND ALARMS     Prevents the zone from operating the two common sounder outputs <tr< th=""><th>CODE</th><th>FUNCTION</th><th>COMMENTS</th><th>SET</th></tr<>	CODE	FUNCTION	COMMENTS	SET
72*         ZONE 2 SHORT CIRCUIT INDICATES ALARM         zene so that the control panel can be           73*         ZONE & SHORT CIRCUIT INDICATES ALARM         zene so that the control panel can be           74*         ZONE & SHORT CIRCUIT INDICATES ALARM         circuit monitoring.           74*         ZONE & SHORT CIRCUIT INDICATES ALARM         circuit monitoring.           74*         ZONE & SHORT CIRCUIT INDICATES ALARM         circuit monitoring.           74*         ZONE & SHORT CIRCUIT INDICATES ALARM         circuit monitoring.           74*         ZONE & SHORT CIRCUIT INDICATES ALARM         circuit monitoring.           74*         ZONE & NON-LATCHING         the used to receive signals from           84*         ZONE & NON-LATCHING         ther systems man will reset when the           85*         ZONE & NON-LATCHING         Note: It can take up to 20 seconds for zone to reset itself when           85*         ZONE & NON-LATCHING         sounders are operating           91         ZONE & NON-LATCHING         outputs           92         ZONE & DOES NOT SOUND ALARMS         prevents the zone from operating the two common sounder           93         ZONE & DOES NOT SOUND ALARMS         prevents the zone from operating the two common sounder           94         ZONE & DOES NOT SOUND ALARMS         prevents the zone from operating the two common sound				
73*       ZONE 3 SHORT CIRCUIT INDICATES ALARM Circuit monitoring.       used on older systems that had no short circuit monitoring.         74*       ZONE 5 SHORT CIRCUIT INDICATES ALARM 75*       zone 5 SHORT CIRCUIT INDICATES ALARM 75*       zone 5 SHORT CIRCUIT INDICATES ALARM 75*         75*       ZONE 6 SHORT CIRCUIT INDICATES ALARM 76*       zone 6 SHORT CIRCUIT INDICATES ALARM 76*       zone 1 NON-LATCHING 75*         81*       ZONE 1 NON-LATCHING       Renders the zone self-resetting so that 75*       transmitter         82*       ZONE 1 NON-LATCHING       tit can be used to receive signals from 75*       totate self-resetting so that 75*         84*       ZONE 1 NON-LATCHING       nput is removed.       Note: It can take up to 20 seconds for zone to reset itself when sounders are operating         84*       ZONE 4 NON-LATCHING       sounders are operating       sounders are operating         91       ZONE 1 DOES NOT SOUND ALARMS       Prevents the zone from operating the two common sounder outputs         92       ZONE 1 DOES NOT SOUND ALARMS       Prevents the zone from operating the two common sounder outputs         93       ZONE 1 DOES NOT SOUND ALARMS       Prevents the zone from operating the two common sounder outputs         94       ZONE 1 DOES NOT SOUND ALARMS       Prevents the zone from operating the two common sounder outputs         94       ZONE 1 ANY ALARM DELAYED       Zone needs to be triggered for 30 second	72*		zone so that the control panel can be	
74*       ZONE 4 SHORT CIRCUIT INDICATES ALARM       circuit monitoring.         75*       ZONE 5 SHORT CIRCUIT INDICATES ALARM	73*	ZONE 3 SHORT CIRCUIT INDICATES ALARM	used on older systems that had no short	
76*     ZONE 6 SHORT CIRCUIT INDICATES ALARM       77*     ZONE 7 SHORT CIRCUIT INDICATES ALARM       78*     ZONE 8 SHORT CIRCUIT INDICATES ALARM       78*     ZONE 1 NON-LATCHING       81*     ZONE 1 NON-LATCHING       82*     ZONE 2 NON-LATCHING       83*     ZONE 8 NON-LATCHING       84*     ZONE 1 NON-LATCHING       85*     ZONE 5 NON-LATCHING       86*     ZONE 5 NON-LATCHING       87*     ZONE 5 NON-LATCHING       88*     ZONE 5 NON-LATCHING       91     ZONE 1 DOES NOT SOUND ALARMS       92     ZONE 2 DOES NOT SOUND ALARMS       93     ZONE 3 DOES NOT SOUND ALARMS       94     ZONE 4 DOES NOT SOUND ALARMS       95     ZONE 5 NOT SOUND ALARMS       96     ZONE 6 DOES NOT SOUND ALARMS       97     ZONE 7 ANY ALARM DELAYED       A1*     ZONE 1 ANY ALARM DELAYED       A3*     ZONE 3 ANY ALARM DELAYED       A4*     ZONE 3 ANY ALARM DELAYED       A5*     ZONE 3 ANY ALARM DELAYED       A6*     ZONE 5 ANY ALARM DELAYED       A6*     ZONE 6 ANY ALARM DELAYED       A6* <td< td=""><td>74*</td><td>ZONE 4 SHORT CIRCUIT INDICATES ALARM</td><td></td></td<>	74*	ZONE 4 SHORT CIRCUIT INDICATES ALARM		
77*       ZONE 7 SHORT CIRCUIT INDICATES ALARM         78*       ZONE 8 SHORT CIRCUIT INDICATES ALARM         81*       ZONE 1 NON-LATCHING         82*       ZONE 2 NON-LATCHING         83*       ZONE 2 NON-LATCHING         84*       ZONE 4 NON-LATCHING         84*       ZONE 5 NON-LATCHING         85*       ZONE 6 NON-LATCHING         86*       ZONE 6 NON-LATCHING         86*       ZONE 6 NON-LATCHING         86*       ZONE 6 NON-LATCHING         87*       ZONE 7 NON-LATCHING         88*       ZONE 6 NON-LATCHING         89*       ZONE 6 NON-LATCHING         91       ZONE 7 NON-LATCHING         92       ZONE 7 NON-LATCHING         93       ZONE 7 NON-LATCHING         94       ZONE 7 NON-LATCHING         95       ZONE 7 NON-LATCHING         94       ZONE 7 NON-LATCHING         95       ZONE 7 DOES NOT SOUND ALARMS         96       ZONE 7 DOES NOT SOUND ALARMS         97       ZONE 7 DOES NOT SOUND ALARMS         98       ZONE 7 ANY ALARM DELAYED         A4*       ZONE 7 ANY ALARM DELAYED         A5*       ZONE 7 ANY ALARM DELAYED         A6*       ZONE 7 ANY ALARM DELAYED	75*	ZONE 5 SHORT CIRCUIT INDICATES ALARM		
78*       ZONE 8 SHORT CIRCUIT INDICATES ALARM         81*       ZONE 1 NON-LATCHING       it can be used to receive signals from         82*       ZONE 2 NON-LATCHING       it can be used to receive signals from         83*       ZONE 4 NON-LATCHING       it can be used to receive signals from         84*       ZONE 5 NON-LATCHING       input is removed.         85*       ZONE 6 NON-LATCHING       input is removed.         86*       ZONE 6 NON-LATCHING       sounders are operating         87*       ZONE 6 NON-LATCHING       sounders are operating         88*       ZONE 8 NON-LATCHING       sounders are operating         88*       ZONE 8 NON-LATCHING       outputs         91       ZONE 1 DOES NOT SOUND ALARMS       outputs         93       ZONE 1 DOES NOT SOUND ALARMS       outputs         94       ZONE 1 DOES NOT SOUND ALARMS       outputs         95       ZONE 1 DOES NOT SOUND ALARMS       outputs         96       ZONE 1 DOES NOT SOUND ALARMS       outputs         97       ZONE 1 ANY ALARM DELAYED       Zone needs to be triggered for 30 seconds continuously before an alarm is generated.         A1*       ZONE 4 ANY ALARM DELAYED       Zone needs to be configured not to operate zonal sounders.         CA*       ZONE 5 ANY ALARM DELAYED	76*	ZONE 6 SHORT CIRCUIT INDICATES ALARM		
BI*         ZONE 1         NON-LATCHING           82*         ZONE 2         NON-LATCHING         It can be used to receive signals from           84*         ZONE 4         NON-LATCHING         It can be used to receive signals from           84*         ZONE 4         NON-LATCHING         Input is removed.           85*         ZONE 5         NON-LATCHING         Note: It can take up to 20 seconds for zone to reset itself when sounders are operating           86*         ZONE 6         NON-LATCHING         Note: It can take up to 20 seconds for zone to reset itself when sounders are operating           87*         ZONE 6         NON-LATCHING         Note: It can take up to 20 seconds for zone to reset itself when sounders are operating           97         ZONE 1         DOES NOT SOUND ALARMS         outputs           92         ZONE 1         DOES NOT SOUND ALARMS         outputs           93         ZONE 5         DOES NOT SOUND ALARMS         outputs           94         ZONE 6         DOES NOT SOUND ALARMS         outputs           97         ZONE 7         DOES NOT SOUND ALARMS         outputs           98         ZONE 8         DOES NOT SOUND ALARMS         outputs           97         ZONE 7         ZONE 7         SOUND ALARMS           98         ZONE	77*	ZONE 7 SHORT CIRCUIT INDICATES ALARM		
82*       ZONE 2 NON-LATCHING       it can be used to receive signals from         83*       ZONE 3 NON-LATCHING       other systems and will reset when the input is removed.         84*       ZONE 5 NON-LATCHING       Note: it can take up to 20 seconds for zone to reset itself when sounders are operating         85*       ZONE 6 NON-LATCHING       Note: it can take up to 20 seconds for zone to reset itself when sounders are operating         87*       ZONE 6 NON-LATCHING       sounders are operating         88*       ZONE 8 NON-LATCHING       outputs         91       ZONE 1 DOES NOT SOUND ALARMS       outputs         92       ZONE 2 DOES NOT SOUND ALARMS       outputs         94       ZONE 4 DOES NOT SOUND ALARMS       outputs         95       ZONE 5 DOES NOT SOUND ALARMS       outputs         96       ZONE 6 DOES NOT SOUND ALARMS       outputs         97       ZONE 7 DOES NOT SOUND ALARMS       outputs         98       ZONE 6 DOES NOT SOUND ALARMS       outputs         97       ZONE 7 DOES NOT SOUND ALARMS       outputs         98       ZONE 8 ANY ALARM DELAYED       Zone needs to be triggered for 30 seconds continuously before an alarm is generated.         A4*       ZONE 5 ANY ALARM DELAYED       Zone 6 ANY ALARM DELAYED       outputs         A6*       ZONE 8 ANY ALARM	78*	ZONE 8 SHORT CIRCUIT INDICATES ALARM		
82*         ZONE 2 NON-LATCHING         It can be used to receive signals from           83*         ZONE 3 NON-LATCHING         other systems and will reset when the input is removed.           84*         ZONE 5 NON-LATCHING         Note: It can take up to 20 seconds for zone to reset itself when sounders are operating           85*         ZONE 6 NON-LATCHING         Note: It can take up to 20 seconds for zone to reset itself when sounders are operating           87*         ZONE 1 DOES NOT SOUND ALARMS         prevents the zone from operating the two common sounder outputs           91         ZONE 2 DOES NOT SOUND ALARMS         outputs           92         ZONE 4 DOES NOT SOUND ALARMS         outputs           94         ZONE 4 DOES NOT SOUND ALARMS         outputs           95         ZONE 5 DOES NOT SOUND ALARMS         outputs           96         ZONE 6 DOES NOT SOUND ALARMS         prevents the zone from operating the two common sounder outputs           97         ZONE 1 DOES NOT SOUND ALARMS         prevents the zone from operating the two common sounder outputs           97         ZONE 7 DOES NOT SOUND ALARMS         prevents the zone from operating the two common sounder outputs           98         ZONE 6 DOES NOT SOUND ALARMS         prevents the zone from operating the two common sounder outputs           84         ZONE 1 ANY ALARM DELAYED         Zone needs to be triggered for 30 seconds c	0.1.1	2015 / 1101 / 1201 110		
83*         ZONE 3 NON-LATCHING         other systems and will reset when the input is removed.           84*         ZONE 5 NON-LATCHING         input is removed.           85*         ZONE 5 NON-LATCHING         sounders are operating           86*         ZONE 5 NON-LATCHING         sounders are operating           87*         ZONE 7 NON-LATCHING         sounders are operating           91         ZONE 1 DOES NOT SOUND ALARMS         Prevents the zone from operating the two common sounder outputs           92         ZONE 5 DOES NOT SOUND ALARMS         Prevents the zone from operating the two common sounder outputs           93         ZONE 5 DOES NOT SOUND ALARMS         outputs           94         ZONE 6 DOES NOT SOUND ALARMS         outputs           97         ZONE 1 DOES NOT SOUND ALARMS         prevents the zone from operating the two common sounder outputs           98         ZONE 6 DOES NOT SOUND ALARMS         prevents the zone from operating the two common sounder outputs           99         ZONE 1 ANY ALARM DELAYED         Zone needs to be triggered for 30 seconds continuously before an alarm is generated.           A5*         ZONE 6 ANY ALARM DELAYED         Zone 7 ANY ALARM DELAYED           A6*         ZONE 6 ANY ALARM DELAYED         Sounders.           C1         ZONE 1 SOUNDERS INHIBITED         Cone 7 ANY ALARM DELAYED <tr< td=""><td></td><td></td><td></td><td><u> </u></td></tr<>				<u> </u>
84*         ZONE 4 NON-LATCHING         input is removed.           85*         ZONE 5 NON-LATCHING         Note: It can take up to 20 seconds for zone to reset itself when sounders are operating           87*         ZONE 7 NON-LATCHING         sounders are operating           88*         ZONE 8 NON-LATCHING         sounders are operating           91         ZONE 1 DOES NOT SOUND ALARMS         prevents the zone from operating the two common sounder           92         ZONE 3 DOES NOT SOUND ALARMS         outputs           94         ZONE 4 DOES NOT SOUND ALARMS         outputs           95         ZONE 5 DOT SOUND ALARMS         outputs           96         ZONE 6 DOES NOT SOUND ALARMS         outputs           97         ZONE 7 DOES NOT SOUND ALARMS         prevents the zone from operating the two common sounder           98         ZONE 6 DOES NOT SOUND ALARMS         prevents the zone from operating the two common sounder           98         ZONE 6 DOES NOT SOUND ALARMS         prevents the zone from operating the two common sounder           97         ZONE 7 DOES NOT SOUND ALARMS         prevents the zone from operating the two common sounder           98         ZONE 6 ADV ALARM DELAYED         Zone needs to be triggered for 30 seconds continuously before an alarm is generated.           A1*         ZONE 5 ANY ALARM DELAYED         ZONE 6 ANY ALARM DELAYED	_			
85*       ZONE 5 NON-LATCHING       Note: It can take up to 20 seconds for zone to reset itself when sounders are operating         86*       ZONE 6 NON-LATCHING       sounders are operating         97*       ZONE 7 NON-LATCHING       sounders are operating         91       ZONE 1 DOES NOT SOUND ALARMS       Prevents the zone from operating the two common sounder outputs         91       ZONE 1 DOES NOT SOUND ALARMS       Prevents the zone from operating the two common sounder outputs         93       ZONE 2 DOES NOT SOUND ALARMS       Prevents the zone from operating the two common sounder outputs         94       ZONE 4 DOES NOT SOUND ALARMS       Prevents the zone from operating the two common sounder outputs         94       ZONE 5 DOES NOT SOUND ALARMS       Prevents the zone from operating the two common sounder outputs         97       ZONE 5 DOES NOT SOUND ALARMS       Prevents the zone from operating the two common sounder outputs         98       ZONE 8 DOES NOT SOUND ALARMS       Prevents the zone from operating the two common sounder outputs         98       ZONE 8 DOES NOT SOUND ALARMS       Prevents the zone from operating the two common sounder outputs         99       ZONE 1 ANY ALARM DELAYED       Zone needs to be triggered for 30 seconds continuously before an alarm is generated.         A3*       ZONE 4 ANY ALARM DELAYED       Enables individual zones to be configured not to operate zonal sounders.				-
86*         ZONE 6 NON-LATCHING         sounders are operating           87*         ZONE 8 NON-LATCHING         sounders are operating           91         ZONE 1 DDES NOT SOUND ALARMS         prevents the zone from operating the two common sounder outputs           91         ZONE 2 DOES NOT SOUND ALARMS         outputs           92         ZONE 3 DOES NOT SOUND ALARMS         outputs           94         ZONE 4 DOES NOT SOUND ALARMS         outputs           95         ZONE 5 DOES NOT SOUND ALARMS         outputs           96         ZONE 6 DOES NOT SOUND ALARMS         outputs           97         ZONE 7 DOES NOT SOUND ALARMS         outputs           99         ZONE 8 DOES NOT SOUND ALARMS         outputs           99         ZONE 1 ANY ALARM DELAYED         Zone needs to be triggered for 30 seconds continuously before an alarm is generated.           A3*         ZONE 6 ANY ALARM DELAYED         Zone 6 ANY ALARM DELAYED         A4*           A4*         ZONE 6 ANY ALARM DELAYED         Sounders.         On 2 wire "T" series panels this enables individual zones to be configured not to operate zonal sounders.           C3         ZONE 8 SOUNDERS INHIBITED         Sounders.         On 2 wire "T" series panels this enables individual zones to be configured for use with conventional (non-sawire) detector bases.               CA         ZONE 8 SOUNDE				
87*       ZONE 7 NON-LATCHING         88*       ZONE 8 NON-LATCHING         91       ZONE 1 DOES NOT SOUND ALARMS         92       ZONE 3 DOES NOT SOUND ALARMS         93       ZONE 4 DOES NOT SOUND ALARMS         94       ZONE 5 DOES NOT SOUND ALARMS         95       ZONE 5 DOES NOT SOUND ALARMS         96       ZONE 4 DOES NOT SOUND ALARMS         97       ZONE 7 DOES NOT SOUND ALARMS         98       ZONE 8 DOES NOT SOUND ALARMS         99       ZONE 8 DOES NOT SOUND ALARMS         97       ZONE 8 DOES NOT SOUND ALARMS         98       ZONE 8 DOES NOT SOUND ALARMS         99       Zone 8 any ALARM DELAYED         A1*       ZONE 4 ANY ALARM DELAYED         A4*       ZONE 6 ANY ALARM DELAYED         A5*       ZONE 6 ANY ALARM DELAYED         A6*       ZONE 8 ANY ALARM DELAYED         A6*       ZONE 8 ANY ALARM DELAYED         C1       ZONE 1 SUNDERS INHIBITED         C3       ZONE 3 SOUNDERS INHIBITED         C4       ZONE 3 SOUNDERS INHIBITED         C5       ZONE 3 SOUNDERS INHIBITED<				
88*       ZONE 8 NON-LATCHING         91       ZONE 1 DOES NOT SOUND ALARMS       Prevents the zone from operating the two common sounder outputs         93       ZONE 3 DOES NOT SOUND ALARMS       outputs         94       ZONE 4 DOES NOT SOUND ALARMS       outputs         95       ZONE 5 DOES NOT SOUND ALARMS       outputs         96       ZONE 6 DOES NOT SOUND ALARMS       outputs         97       ZONE 7 DOES NOT SOUND ALARMS       outputs         98       ZONE 8 DOES NOT SOUND ALARMS       outputs         99       ZONE 8 DOES NOT SOUND ALARMS       outputs         99       ZONE 8 DOES NOT SOUND ALARMS       outputs         99       ZONE 8 DOES NOT SOUND ALARMS       outputs         94       ZONE 8 DOES NOT SOUND ALARMS       outputs         99       ZONE 8 DOES NOT SOUND ALARMS       outputs         94       ZONE 8 DOES NOT SOUND ALARMS       outputs         94       ZONE 1 ANY ALARM DELAYED       Zone needs to be triggered for 30 seconds continuously before an alarm is generated.         A3*       ZONE 5 ANY ALARM DELAYED       Zone 6 ANY ALARM DELAYED       outputs         A4*       ZONE 7 ANY ALARM DELAYED       on 2 wire 'T* series panels this enables individual zones to be configured not to operate zonal sounders.         C3 <td< td=""><td></td><td></td><td></td></td<>				
91       ZONE 1 DDES NOT SOUND ALARMS       Prevents the zone from operating the two common sounder outputs         92       ZONE 2 DDES NOT SOUND ALARMS       outputs         93       ZONE 3 DDES NOT SOUND ALARMS       outputs         94       ZONE 5 DDES NOT SOUND ALARMS       outputs         95       ZONE 5 DDES NOT SOUND ALARMS       outputs         96       ZONE 5 DDES NOT SOUND ALARMS       outputs         97       ZONE 7 DDES NOT SOUND ALARMS       outputs         98       ZONE 8 DDES NOT SOUND ALARMS       outputs         99       ZONE 1 ANY ALARM DELAYED       Zone needs to be triggered for 30 seconds continuously before an alarm is generated.         A3*       ZONE 4 ANY ALARM DELAYED       Zone needs to be triggered for 30 seconds continuously before an alarm is generated.         A4*       ZONE 6 ANY ALARM DELAYED       As*         A5*       ZONE 6 ANY ALARM DELAYED       as         A6*       ZONE 8 ANY ALARM DELAYED       as         A6*       ZONE 8 ANY ALARM DELAYED       as         C1       ZONE 8 ANY ALARM DELAYED       configured for use with conventional (non-sawire) detector bases.         C3       ZONE 4 SOUNDERS INHIBITED       Configured for use with conventional (non-sawire) detector bases.         C4       ZONE 7 SOUNDERS INHIBITED       Configured	-			
92       ZONE 2 DOES NOT SOUND ALARMS       outputs         93       ZONE 3 DOES NOT SOUND ALARMS       outputs         94       ZONE 4 DOES NOT SOUND ALARMS       outputs         95       ZONE 5 DOES NOT SOUND ALARMS       outputs         96       ZONE 7 DOES NOT SOUND ALARMS       outputs         97       ZONE 7 DOES NOT SOUND ALARMS       outputs         98       ZONE 8 DOES NOT SOUND ALARMS       outputs         99	<u>୪୪</u> ^	ZUNE & NUN-LATCHING		
92       ZONE 2 DOES NOT SOUND ALARMS       outputs         93       ZONE 3 DOES NOT SOUND ALARMS       outputs         94       ZONE 4 DOES NOT SOUND ALARMS       outputs         95       ZONE 5 DOES NOT SOUND ALARMS       outputs         96       ZONE 7 DOES NOT SOUND ALARMS       outputs         97       ZONE 7 DOES NOT SOUND ALARMS       outputs         98       ZONE 8 DOES NOT SOUND ALARMS       outputs         99       At*       ZONE 1 ANY ALARM DELAYED       Zone needs to be triggered for 30 seconds continuously before an alarm is generated.         A3*       ZONE 4 ANY ALARM DELAYED       Zone needs to be triggered for 30 seconds continuously before an alarm is generated.         A4*       ZONE 4 ANY ALARM DELAYED       Zone needs to be triggered for 30 seconds continuously before an alarm is generated.         A5*       ZONE 4 ANY ALARM DELAYED       ZONE 7 ANY ALARM DELAYED         A6*       ZONE 8 ANY ALARM DELAYED       CONE 7 ANY ALARM DELAYED         A8*       ZONE 7 ANY ALARM DELAYED       CONE 7 ANY ALARM DELAYED         C1       ZONE 7 ANY ALARM DELAYED       CONE 7 ANY ALARM DELAYED         C3       ZONE 8 SOUNDERS INHIBITED       Cone 7 ANY ALARM DELAYED         C4       ZONE 5 SOUNDERS INHIBITED       Configured for use with conventional (non-savwire) detector bases.      <	91	ZONE 1 DOES NOT SOUND ALARMS	Prevents the zone from operating the two common sounder	
93       ZONE 3 DOES NOT SOUND ALARMS         94       ZONE 4 DOES NOT SOUND ALARMS         95       ZONE 6 DOES NOT SOUND ALARMS         96       ZONE 7 DOES NOT SOUND ALARMS         97       ZONE 7 DOES NOT SOUND ALARMS         98       ZONE 8 DOES NOT SOUND ALARMS         99       ZONE 1 ANY ALARM DELAYED         A1*       ZONE 2 ANY ALARM DELAYED         A3*       ZONE 3 ANY ALARM DELAYED         A4*       ZONE 6 ANY ALARM DELAYED         A4*       ZONE 7 ANY ALARM DELAYED         A5*       ZONE 6 ANY ALARM DELAYED         A6*       ZONE 8 NAY ALARM DELAYED         A7*       ZONE 8 NAY ALARM DELAYED         A7*       ZONE 8 NAY ALARM DELAYED         C1       ZONE 1 SOUNDERS INHIBITED         C3       ZONE 1 SOUNDERS INHIBITED         C3       ZONE 3 SOUNDERS INHIBITED         C4       ZONE 4 SOUNDERS INHIBITED         C6       ZONE 6 SOUNDERS INHIBITED         C7       ZONE 7 SOUNDERS INHIBITED         C7       ZONE 8 SOUNDERS INHIBITED				
94       ZONE 4 DOES NOT SOUND ALARMS         95       ZONE 6 DOES NOT SOUND ALARMS         96       ZONE 7 DOES NOT SOUND ALARMS         97       ZONE 7 DOES NOT SOUND ALARMS         98       ZONE 8 DOES NOT SOUND ALARMS         99				
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         99       A1*         A1*       ZONE 2 ANY ALARM DELAYED         A3*       ZONE 3 ANY ALARM DELAYED         A4*       ZONE 6 ANY ALARM DELAYED         A5*       ZONE 6 ANY ALARM DELAYED         A6*       ZONE 6 ANY ALARM DELAYED         A6*       ZONE 6 ANY ALARM DELAYED         A6*       ZONE 7 ANY ALARM DELAYED         A6*       ZONE 8 ANY ALARM DELAYED         A6*       ZONE 8 ANY ALARM DELAYED         A7*       ZONE 7 ANY ALARM DELAYED         A8*       ZONE 8 ANY ALARM DELAYED         A8*       ZONE 8 SOUNDERS INHIBITED         C1       ZONE 1 SOUNDERS INHIBITED         C2       ZONE 2 SOUNDERS INHIBITED         C3       ZONE 4 SOUNDERS INHIBITED         C4       ZONE 5 SOUNDERS INHIBITED         C6       ZONE 6 SOUNDERS INHIBITED         C7       ZONE 7 SOUNDERS INHIBITED         C6       ZONE 8 SOUNDERS INHIBITED         C7       ZONE 8 SOUNDERS INHIBITED         C6       ZONE 8 SOUNDERS INHIBITED				
96       ZONE 6 DOES NOT SOUND ALARMS         97       ZONE 7 DOES NOT SOUND ALARMS         98       ZONE 8 DOES NOT SOUND ALARMS         99       A1*         A1*       ZONE 1 ANY ALARM DELAYED         A3*       ZONE 2 ANY ALARM DELAYED         A4*       ZONE 3 ANY ALARM DELAYED         A4*       ZONE 6 ANY ALARM DELAYED         A5*       ZONE 7 ANY ALARM DELAYED         A6*       ZONE 6 ANY ALARM DELAYED         A6*       ZONE 7 ANY ALARM DELAYED         A6*       ZONE 7 ANY ALARM DELAYED         A8*       ZONE 7 ANY ALARM DELAYED         A8*       ZONE 8 ANY ALARM DELAYED         C1       ZONE 1 SOUNDERS INHIBITED         C3       ZONE 4 ANY ALARM DELAYED         C4       ZONE 7 ANY ALARM DELAYED         C5       ZONE 8 SOUNDERS INHIBITED         C6       ZONE 4 SOUNDERS INHIBITED         C6       ZONE 4 SOUNDERS INHIBITED         C6       ZONE 7 SOUNDERS INHIBITED         C7       ZONE 7 SOUNDERS INHIBITED         C8       ZONE 8 SOUNDERS INHIBITED         C6       ZONE 8 SOUNDERS INHIBITED         C7       ZONE 7 SOUNDERS INHIBITED         C8       ZONE 8 SOUNDERS INHIBITED         C8				
97       ZONE 7 DOES NOT SOUND ALARMS         98       ZONE 8 DOES NOT SOUND ALARMS         99				
98       ZONE 8 DOES NOT SOUND ALARMS         99	97			
99       ZONE 1 ANY ALARM DELAYED         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 7 ANY ALARM DELAYED         A6*       ZONE 7 ANY ALARM DELAYED         A6*       ZONE 7 ANY ALARM DELAYED         A6*       ZONE 8 ANY ALARM DELAYED         A7*       ZONE 7 ANY ALARM DELAYED         A8*       ZONE 8 ANY ALARM DELAYED         C1       ZONE 8 ANY ALARM DELAYED         C2       ZONE 9 ANY ALARM DELAYED         C3       ZONE 1 SOUNDERS INHIBITED         C3       ZONE 2 SOUNDERS INHIBITED         C3       ZONE 3 SOUNDERS INHIBITED         C4       ZONE 4 SOUNDERS INHIBITED         C6       ZONE 5 SOUNDERS INHIBITED         C7       ZONE 7 SOUNDERS INHIBITED         C8       ZONE 8 SOUNDERS INHIBITED         C8       ZONE 1 WILL NOT OPERATE FIRE RELAY         E1*       ZONE 1 WILL NOT OPERATE FIRE RELAY         E4*       ZONE 4 WILL NOT OPERATE FIRE RELAY         E5*       ZONE 4 WILL NOT OPERATE FIRE RELAY         E6*       ZONE 6 WILL NOT OPERATE FIRE RELAY         E6*				
A2*       ZONE 2 ANY ALARM DELAYED       before an alarm is generated.         A3*       ZONE 3 ANY ALARM DELAYED         A4*       ZONE 4 ANY ALARM DELAYED         A5*       ZONE 5 ANY ALARM DELAYED         A6*       ZONE 6 ANY ALARM DELAYED         A6*       ZONE 7 ANY ALARM DELAYED         A8*       ZONE 8 ANY ALARM DELAYED         A8*       ZONE 1 SOUNDERS INHIBITED         C1       ZONE 3 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         C6       ZONE 8 SOUNDERS INHIBITED         C7       ZONE 8 SOUNDERS INHIBITED         C8       ZONE 8 SOUNDERS INHIBITED         C8       ZONE 8 SOUNDERS INHIBITED         C8       ZONE 1 WILL NOT OPERATE FIRE RELAY         E1*       ZONE 1 WILL NOT OPERATE FIRE RELAY         E1*       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 OPE	99			
A2*       ZONE 2 ANY ALARM DELAYED       before an alarm is generated.         A3*       ZONE 3 ANY ALARM DELAYED         A4*       ZONE 4 ANY ALARM DELAYED         A5*       ZONE 5 ANY ALARM DELAYED         A6*       ZONE 6 ANY ALARM DELAYED         A6*       ZONE 7 ANY ALARM DELAYED         A8*       ZONE 8 ANY ALARM DELAYED         A8*       ZONE 1 SOUNDERS INHIBITED         C1       ZONE 3 SOUNDERS INHIBITED         C3       ZONE 3 SOUNDERS INHIBITED         C4       ZONE 5 SOUNDERS INHIBITED         C5       ZONE 5 SOUNDERS INHIBITED         C6       ZONE 6 SOUNDERS INHIBITED         C7       ZONE 7 SOUNDERS INHIBITED         C7       ZONE 7 SOUNDERS INHIBITED         C8       ZONE 8 SOUNDERS INHIBITED         C8       ZONE 8 SOUNDERS INHIBITED         C8       ZONE 8 SOUNDERS INHIBITED         C8       ZONE 1 WILL NOT OPERATE FIRE RELAY         E1*       ZONE 1 WILL NOT OPERATE FIRE RELAY         E1*       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 OPE	A1*	ZONE 1 ANY ALARM DELAYED	Zone needs to be triggered for 30 seconds continuously	
A3*       ZONE 3 ANY ALARM DELAYED         A4*       ZONE 4 ANY ALARM DELAYED         A5*       ZONE 5 ANY ALARM DELAYED         A6*       ZONE 7 ANY ALARM DELAYED         A7*       ZONE 7 ANY ALARM DELAYED         A8*       ZONE 8 ANY ALARM DELAYED         A8*       ZONE 8 ANY ALARM DELAYED         A8*       ZONE 8 ANY ALARM DELAYED         C1       ZONE 1 SOUNDERS INHIBITED         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         C6       ZONE 7 SOUNDERS INHIBITED         C7       ZONE 7 SOUNDERS INHIBITED         C8       ZONE 8 SOUNDERS INHIBITED         C8       ZONE 8 SOUNDERS INHIBITED         C8       ZONE 8 SOUNDERS INHIBITED         C9       ZONE 1 WILL NOT OPERATE FIRE RELAY         E1*       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         E5*       ZONE 5 WILL NOT OPERATE FIRE RELAY         E5* <td>A2*</td> <td>ZONE 2 ANY ALARM DELAYED</td> <td></td> <td></td>	A2*	ZONE 2 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         A8*       ZONE 8 ANY ALARM DELAYED         C1       ZONE 1 SOUNDERS INHIBITED         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         C6       ZONE 8 SOUNDERS INHIBITED         C7       ZONE 8 SOUNDERS INHIBITED         C8       ZONE 8 SOUNDERS INHIBITED         C8       ZONE 2 WILL NOT OPERATE FIRE RELAY         E1*       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 6 WILL NOT OPERATE FIRE RELAY         E7*       ZONE 7 WILL NOT OPERATE FIRE RELAY<	A3*			
A5*       ZONE 5 ANY ALARM DELAYED         A6*       ZONE 6 ANY ALARM DELAYED         A7*       ZONE 7 ANY ALARM DELAYED         A8*       ZONE 8 ANY ALARM DELAYED         A8*       ZONE 8 ANY ALARM DELAYED         C1       ZONE 1 SOUNDERS INHIBITED         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         C6       ZONE 8 SOUNDERS INHIBITED         C7       ZONE 8 SOUNDERS INHIBITED         C8       ZONE 8 SOUNDERS INHIBITED         C8       ZONE 2 WILL NOT OPERATE FIRE RELAY         E1*       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 6 WILL NOT OPERATE FIRE RELAY         E7*       ZONE 7 WILL NOT OPERATE FIRE RELAY<	A4*	ZONE 4 ANY ALARM DELAYED		
A7*       ZONE 7 ANY ALARM DELAYED         A8*       ZONE 8 ANY ALARM DELAYED         C1       ZONE 1 SOUNDERS INHIBITED         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         C8       ZONE 8 SOUNDERS INHIBITED         C8       ZONE 1 WILL NOT OPERATE FIRE RELAY         E1*       ZONE 2 WILL NOT OPERATE FIRE RELAY         E3*       ZONE 3 WILL NOT OPERATE FIRE RELAY         E5*       ZONE 3 WILL NOT OPERATE FIRE RELAY         E6*       ZONE 4 WILL NOT OPERATE FIRE RELAY         E6*       ZONE 7 WILL NOT OPERATE FIRE RELAY         E6*       ZONE 7 WILL NOT OPERATE FIRE RELAY	A5*			
A8*       ZONE 8 ANY ALARM DELAYED         C1       ZONE 1 SOUNDERS INHIBITED         C2       ZONE 2 SOUNDERS INHIBITED         C3       ZONE 3 SOUNDERS INHIBITED         C4       ZONE 4 SOUNDERS INHIBITED         C5       ZONE 5 SOUNDERS INHIBITED         C6       ZONE 7 SOUNDERS INHIBITED         C7       ZONE 7 SOUNDERS INHIBITED         C8       ZONE 7 SOUNDERS INHIBITED         C8       ZONE 8 SOUNDERS INHIBITED         C8       ZONE 1 WILL NOT OPERATE FIRE RELAY         E1*       ZONE 2 WILL NOT OPERATE FIRE RELAY         E3*       ZONE 3 WILL NOT OPERATE FIRE RELAY         E5*       ZONE 4 WILL NOT OPERATE FIRE RELAY         E5*       ZONE 5 WILL NOT OPERATE FIRE RELAY         E5*       ZONE 6 WILL NOT OPERATE FIRE RELAY         E5*       ZONE 7 WILL NOT OPERATE FIRE RELAY         E5*       ZONE 6 WILL NOT OPERATE FIRE RELAY         E5*       ZONE 7 WILL NOT OPERATE FIRE RELAY         E5*       ZONE 6 WILL NOT OPERATE FIRE RELAY         E5*       ZONE 7 WILL NOT OPERATE FIRE RELAY         E5*       ZONE 6 WILL NOT OPERATE FIRE RELAY         E5*       ZONE 7 WILL NOT OPERATE FIRE RELAY				
C1       ZONE 1 SOUNDERS INHIBITED       Enables individual zones to be configured not to operate zonal sounders.         C3       ZONE 3 SOUNDERS INHIBITED       On 2 wire "T" series panels this enables individual zones to be configured for use with conventional (non-savwire) detector bases.         C4       ZONE 5 SOUNDERS INHIBITED       On 2 wire "T" series panels this enables individual zones to be configured for use with conventional (non-savwire) detector bases.         C6       ZONE 6 SOUNDERS INHIBITED       SOFTWARE VERSIONS SIGMA242.HEX hex and above only         C7       ZONE 7 SOUNDERS INHIBITED       SOFTWARE VERSIONS SIGMA242.HEX hex and above only         C8       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.         E4*       ZONE 4 WILL NOT OPERATE FIRE RELAY       Enables individual cones 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.         E5*       ZONE 5 WILL NOT OPERATE FIRE RELAY       E6*         E6*       ZONE 6 WILL NOT OPERATE FIRE RELAY       E0         E6*       ZONE 6 WILL NOT OPERATE FIRE RELAY       E0         E6*       ZONE 7 WILL NOT OPERATE FIRE RELAY       E0				
C2ZONE 2 SOUNDERS INHIBITEDsounders.C3ZONE 3 SOUNDERS INHIBITEDOn 2 wire "T" series panels this enables individual zones to beC4ZONE 4 SOUNDERS INHIBITEDconfigured for use with conventional (non-savwire) detectorC5ZONE 5 SOUNDERS INHIBITEDbases.C6ZONE 6 SOUNDERS INHIBITEDSOFTWARE VERSIONS SIGMA242.HEX hex and above onlyC7ZONE 8 SOUNDERS INHIBITEDSOFTWARE VERSIONS SIGMA242.HEX hex and above onlyC8ZONE 8 SOUNDERS INHIBITEDSOFTWARE VERSIONS SIGMA242.HEX hex and above onlyE1*ZONE 1 WILL NOT OPERATE FIRE RELAYEnables individual zones to be selected to not operate the fireE2*ZONE 2 WILL NOT OPERATE FIRE RELAYrelay. This is sometimes combined with the non-latching functionE3*ZONE 3 WILL NOT OPERATE FIRE RELAYto prevent ring around on interconnected panels.E4*ZONE 4 WILL NOT OPERATE FIRE RELAYE6*E6*ZONE 6 WILL NOT OPERATE FIRE RELAYCONTENDED VEROLOGIA CONTENDED VEROLOGIA	A8*	ZONE 8 ANY ALARM DELAYED	1	
C2ZONE 2 SOUNDERS INHIBITEDsounders.C3ZONE 3 SOUNDERS INHIBITEDOn 2 wire "T" series panels this enables individual zones to beC4ZONE 4 SOUNDERS INHIBITEDconfigured for use with conventional (non-savwire) detectorC5ZONE 5 SOUNDERS INHIBITEDbases.C6ZONE 6 SOUNDERS INHIBITEDSOFTWARE VERSIONS SIGMA242.HEX hex and above onlyC7ZONE 8 SOUNDERS INHIBITEDSOFTWARE VERSIONS SIGMA242.HEX hex and above onlyC8ZONE 8 SOUNDERS INHIBITEDSOFTWARE VERSIONS SIGMA242.HEX hex and above onlyE1*ZONE 1 WILL NOT OPERATE FIRE RELAYEnables individual zones to be selected to not operate the fireE2*ZONE 2 WILL NOT OPERATE FIRE RELAYrelay. This is sometimes combined with the non-latching functionE3*ZONE 3 WILL NOT OPERATE FIRE RELAYto prevent ring around on interconnected panels.E4*ZONE 4 WILL NOT OPERATE FIRE RELAYE6*E6*ZONE 6 WILL NOT OPERATE FIRE RELAYCONTENDER FIRE RELAYE6*ZONE 6 WILL NOT OPERATE FIRE RELAYCONTENDER FIRE RELAYE6*ZONE 6 WILL NOT OPERATE FIRE RELAYCONTENDER FIRE RELAYE6*ZONE 7 WILL NOT OPERATE FIRE RELAYCONTENDER FIRE RELAY	01		Eachlas individual papers to be see formed and to see 1	
C3       ZONE 3 SOUNDERS INHIBITED       On 2 wire "T" series panels this enables individual zones to be configured for use with conventional (non-savwire) detector bases.         C4       ZONE 5 SOUNDERS INHIBITED       configured for use with conventional (non-savwire) detector bases.         C6       ZONE 6 SOUNDERS INHIBITED       configured for use with conventional (non-savwire) detector bases.         C7       ZONE 7 SOUNDERS INHIBITED       configured for use with conventional (non-savwire) detector bases.         C8       ZONE 8 SOUNDERS INHIBITED       SOFTWARE VERSIONS SIGMA242.HEX hex and above only         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.         E4*       ZONE 4 WILL NOT OPERATE FIRE RELAY       Eables individual on interconnected panels.         E4*       ZONE 5 WILL NOT OPERATE FIRE RELAY       to prevent ring around on interconnected panels.         E5*       ZONE 6 WILL NOT OPERATE FIRE RELAY       configure and on interconnected panels.         E6*       ZONE 7 WILL NOT OPERATE FIRE RELAY       configure and on interconnected panels.         E7*       ZONE 7 WILL NOT OPERATE FIRE RELAY       configure and on interconnected panels.				
C4       ZONE 4 SOUNDERS INHIBITED       configured for use with conventional (non-savwire) detector bases.         C5       ZONE 5 SOUNDERS INHIBITED       bases.         C6       ZONE 6 SOUNDERS INHIBITED       SOFTWARE VERSIONS SIGMA242.HEX hex and above only         C8       ZONE 8 SOUNDERS INHIBITED       SOFTWARE VERSIONS SIGMA242.HEX hex and above only         E1*       ZONE 1 WILL NOT OPERATE FIRE RELAY       Enables individual zones to be selected to not operate the fire         E2*       ZONE 2 WILL NOT OPERATE FIRE RELAY       Enables individual zones combined with the non-latching function         E3*       ZONE 3 WILL NOT OPERATE FIRE RELAY       to prevent ring around on interconnected panels.         E4*       ZONE 4 WILL NOT OPERATE FIRE RELAY       E         E5*       ZONE 5 WILL NOT OPERATE FIRE RELAY       E         E6*       ZONE 6 WILL NOT OPERATE FIRE RELAY       E         E6*       ZONE 6 WILL NOT OPERATE FIRE RELAY       E         E7*       ZONE 7 WILL NOT OPERATE FIRE RELAY       E				
C5       ZONE 5 SOUNDERS INHIBITED       bases.         C6       ZONE 6 SOUNDERS INHIBITED          C7       ZONE 7 SOUNDERS INHIBITED       SOFTWARE VERSIONS SIGMA242.HEX hex and above only         C8       ZONE 8 SOUNDERS INHIBITED       SOFTWARE VERSIONS SIGMA242.HEX hex and above only         E1*       ZONE 1 WILL NOT OPERATE FIRE RELAY       Enables individual zones to be selected to not operate the fire         E2*       ZONE 2 WILL NOT OPERATE FIRE RELAY       Enables individual zones to be selected panels.         E3*       ZONE 3 WILL NOT OPERATE FIRE RELAY       to prevent ring around on interconnected panels.         E4*       ZONE 4 WILL NOT OPERATE FIRE RELAY       to prevent ring around on interconnected panels.         E5*       ZONE 5 WILL NOT OPERATE FIRE RELAY       E6*         E6*       ZONE 6 WILL NOT OPERATE FIRE RELAY       E055710000 control of 0.00000 control of 0.000000 control of 0.00000000 control of 0.00000 control of 0.00000				
C6       ZONE 3 SOUNDERS INHIBITED         C7       ZONE 7 SOUNDERS INHIBITED         C8       ZONE 8 SOUNDERS INHIBITED         C8       ZONE 8 SOUNDERS INHIBITED         E1*       ZONE 1 WILL NOT OPERATE FIRE RELAY         E1*       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			•	
C7       ZONE 7 SOUNDERS INHIBITED         C8       ZONE 8 SOUNDERS INHIBITED         C8       ZONE 8 SOUNDERS INHIBITED         E1*       ZONE 1 WILL NOT OPERATE FIRE RELAY         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				
C8       ZONE 8 SOUNDERS INHIBITED       SOFT WARE VERSIONS SIGMA242.HEX hex and above only         E1*       ZONE 1 WILL NOT OPERATE FIRE RELAY       Enables individual zones to be selected to not operate the fire         E2*       ZONE 2 WILL NOT OPERATE FIRE RELAY       Enables individual zones to be selected to not operate the fire         E3*       ZONE 3 WILL NOT OPERATE FIRE RELAY       Enables individual zones to be selected panels.         E4*       ZONE 4 WILL NOT OPERATE FIRE RELAY       to prevent ring around on interconnected panels.         E5*       ZONE 5 WILL NOT OPERATE FIRE RELAY       E         E6*       ZONE 6 WILL NOT OPERATE FIRE RELAY       E         E7*       ZONE 7 WILL NOT OPERATE FIRE RELAY       E				
E1*       ZONE 1 WILL NOT OPERATE FIRE RELAY       Enables individual zones to be selected to not operate the fire         E2*       ZONE 2 WILL NOT OPERATE FIRE RELAY       relay. This is sometimes combined with the non-latching function         E3*       ZONE 3 WILL NOT OPERATE FIRE RELAY       to prevent ring around on interconnected panels.         E4*       ZONE 4 WILL NOT OPERATE FIRE RELAY       E         E5*       ZONE 5 WILL NOT OPERATE FIRE RELAY       E         E6*       ZONE 6 WILL NOT OPERATE FIRE RELAY       E         E7*       ZONE 7 WILL NOT OPERATE FIRE RELAY       E			SOFTWARE VERSIONS SIGMA242.HEX hex and above only	
E2*       ZONE 2 WILL NOT OPERATE FIRE RELAY       relay. This is sometimes combined with the non-latching function to prevent ring around on interconnected panels.         E3*       ZONE 3 WILL NOT OPERATE FIRE RELAY       to prevent ring around on interconnected panels.         E4*       ZONE 4 WILL NOT OPERATE FIRE RELAY       E5*         E5*       ZONE 5 WILL NOT OPERATE FIRE RELAY       E6*         E6*       ZONE 6 WILL NOT OPERATE FIRE RELAY       E6*         E7*       ZONE 7 WILL NOT OPERATE FIRE RELAY       E6*	50	TOINE & 2001NDEK2 INHIRITED		
E2*       ZONE 2 WILL NOT OPERATE FIRE RELAY       relay. This is sometimes combined with the non-latching function to prevent ring around on interconnected panels.         E3*       ZONE 3 WILL NOT OPERATE FIRE RELAY       to prevent ring around on interconnected panels.         E4*       ZONE 4 WILL NOT OPERATE FIRE RELAY       E5*         E5*       ZONE 5 WILL NOT OPERATE FIRE RELAY       E6*         E6*       ZONE 6 WILL NOT OPERATE FIRE RELAY       E6*         E7*       ZONE 7 WILL NOT OPERATE FIRE RELAY       E6*	E1*	ZONE 1 WILL NOT OPERATE FIRE RELAY	Enables individual zones to be selected to not operate the fire	
E3*       ZONE 3 WILL NOT OPERATE FIRE RELAY       to prevent ring around on interconnected panels.         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				
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	-		5	
E5*       ZONE 5 WILL NOT OPERATE FIRE RELAY         E6*       ZONE 6 WILL NOT OPERATE FIRE RELAY         E7*       ZONE 7 WILL NOT OPERATE FIRE RELAY				
E6*       ZONE 6 WILL NOT OPERATE FIRE RELAY         E7*       ZONE 7 WILL NOT OPERATE FIRE RELAY				
E7* ZONE 7 WILL NOT OPERATE FIRE RELAY				
			SOFTWARE VERSIONS SIGMA242.HEX hex and above only	

NOTE: Setting the options marked with asterisks does not comply with EN54-2