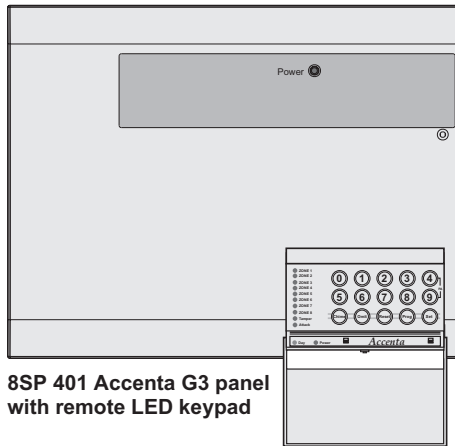


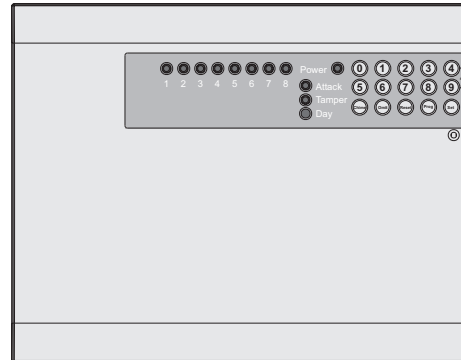
## Intruder alarm system



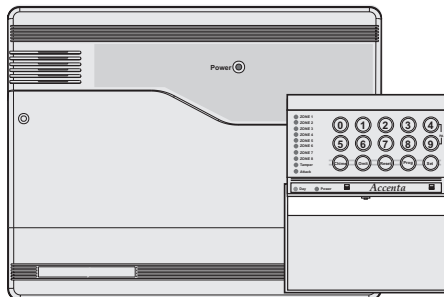
## Engineering Information



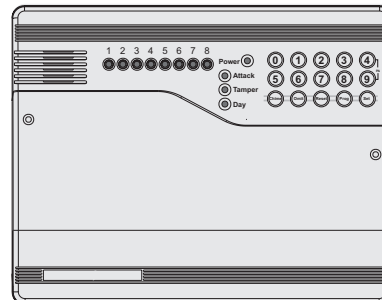
**8SP 401 Accenta G3 panel  
with remote LED keypad**



**8EP 395 Optima G3 panel  
with built-in keypad**



**8SP 400 Accenta mini G3 panel  
with remote LED keypad**

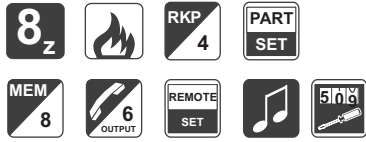


**8EP 396 Optima compact G3 panel  
with built-in keypad**

The above intruder systems are designed to comply with the installation requirements of BS 4737 1986/87.

This manual provides information on Installation design, panel fixing, wiring, power up and programming of the intruder panels.

Features



- 8 zones, all programmable for Security, Fire, 24H Fire, PTS or keyswitch applications
- PA input
- Tamper input
- Outputs for Bell and Strobe
- 4 Access level Codes, User 1, User 2, Engineer and Duress, all programmable
- 3 fully selectable part set programs
- Chime on any zone
- 8 event memory
- Programmable timers including bell cut off
- Walk Test facilities
- Quick set feature
- Remote keypad with on board PA and illuminated keys standard for Accenta panels and Optional for Optima panels
- Option for connection of Lighting controllers
- Options to connect up to four remote keypads / Lighting controllers
- NVM for protection of engineer programme
- 6 digital outputs for a wire-in digital communicator, Red Care STU or dialler **(Not applicable for Optima compact G3 panel)**
- Service warning indicator, programmable between 100 and 800 set and unset events
- Battery capacity of up to :  
2.1Ah in Accenta/Optima G3 mini enclosure  
7Ah in Accenta/Optima G3 enclosure
- Optima G3 and Optima G3 mini are supplied with built in keypad

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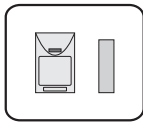
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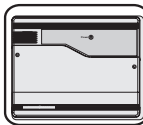
Features

**Installation Design**

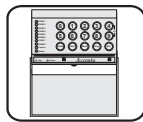
The purchase of this alarm system represents a major step forward in the protection of the property and its occupants. It is important to plan the installation before proceeding and the follow the procedures and advice contained in this manual.



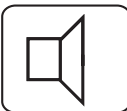
Plan the position of each part of the alarm system and the cable runs. **Detectors** should be sited with particular regard to the degree of coverage required and the function of each of the zones.



All of the system wiring is connected directly to the **panel**. The Accenta panel may be concealed inside a cupboard or loft space, but it must be installed within the protected premises and in a position which is convenient for a mains supply. The Optima panel may be installed near an entry/exit point.



The **Remote keypads (RKPs)** should be mounted in positions which allows ease of operation for the system users, typically within the entry/exit route close to the final door and the master bedroom.



Additional internal **sound speakers** are recommended, these will provide high volume alarm tones and low volume entry/exit tones. Speakers should be positioned to provide good sound distribution throughout the building and so that the exit tone is audible outside the main entry / exit door. This will enable the system operator to check that the system is setting correctly.



Finally note that the **total current** output of this control system (in alarm condition) is 1Amp when supported by a fully charged battery. Calculate the total current consumption of every part of the system including the panel, remote keypads,

bell/sounders, strobes and detectors to ensure that this rating is not exceeded.



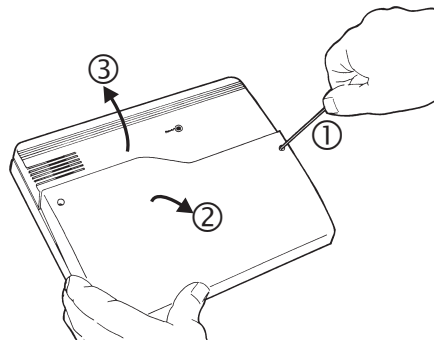
Depending on which area you live, you may be required, by law to notify the **Local Authority** and Police of the new security alarm installation. The local authority requirements may differ from area to area, therefore, it is advisable to contact local environmental officer to obtain full details of your area requirements.

**Fixing**

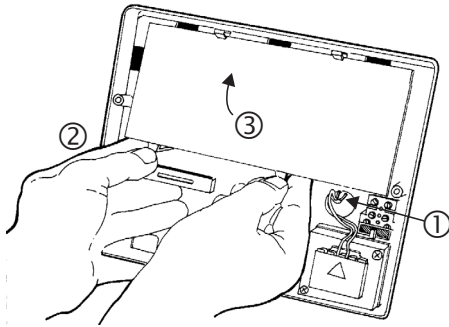
**Caution:** When positioning the control panel ensure that it is located in a dry place away from damp areas.

The Accenta mini G3 enclosure is illustrated here, however the procedures for the other panels are similar.

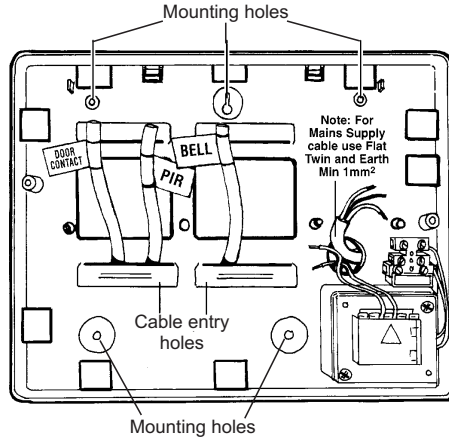
- a. Remove the front cover(s) from the panel.



Disconnect the transformer wires from the transformer marked *AC* terminals on the board. Carefully remove the PCB by gently pushing down the holding clips on the bottom edge of the PCB and withdraw it from the base.



**Note:** When replacing the PCB align it on the round support pillars to the bottom and allow it to click down past the clips at the top of the case. Refit the transformer wires into the terminal.



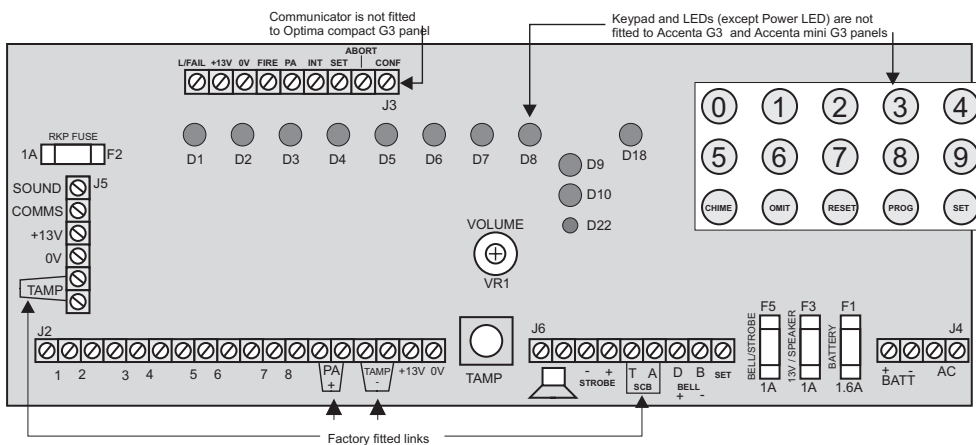
- b. Fit the panel to the wall with suitable fixings. Ensure the wall surface is flat to prevent base distortion. There are cable entry holes provided in the rear of the base and around the outside edges through the thinned out plastic sections which may be cut away as required.
- c. The hole provided adjacent to the mains transformer is a dedicated mains cable entry point.

**Board**

There are four fuses mounted on the circuit board, all are 20mm quick blow.

- F1 1.6A - to protect the +ve line of 12V battery
- F2 1A - to protect the RKP 13V supply
- F3 1A - to protect the Speaker 13V supply
- F5 1A - to protect the Bell and Strobe supply

As supplied, wire links are fitted across the PA and Tamper terminals to represent a closed circuit.



**Wiring the system**

**Caution:** Always **power-down** the panel when wiring external circuits, to prevent damage to the panel electronics.

Systematically wire and test each circuits.:

- Zone, Tamper circuit and PA circuits
- Finish by wiring any additional extension speaker sounders, external bell/sounder, strobe and the 13V supply.

**Tamper network**

The Tamper circuit is used to protect all cables and detectors in the system from unauthorised access including the panel and RKP covers.

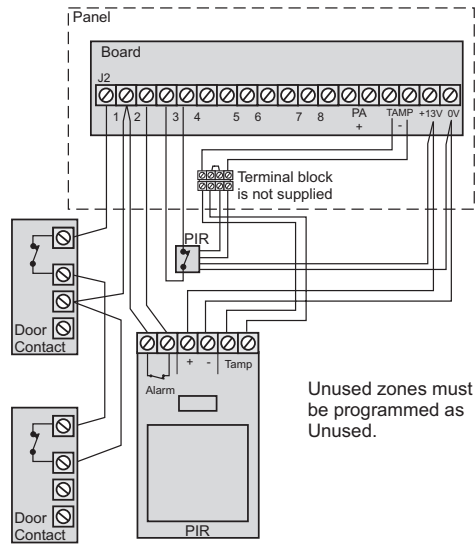
The zone and PA tampers should be series wired and connected to the TAMP terminals. Terminals T & A are for the external bell / sounder tamper. The TAMP terminals at the bottom left of the PCB are for the RKP tampers. Tamper alarms that occur in the Day mode operate internal sounders only. Tamper alarms in Set cause a full alarm condition. Tamper is indicated on the control panel and RKPs by the **Tamper** indicator.

**Connect Remote Keypads / Lighting controllers**

**Note:** Where an Accenta G3 or Accenta mini G3 panel is being installed ensure there is at least one remote keypad wired to the panel before first power up.

A combination of up to four remote keypads and lighting controller can be connected to the panel.

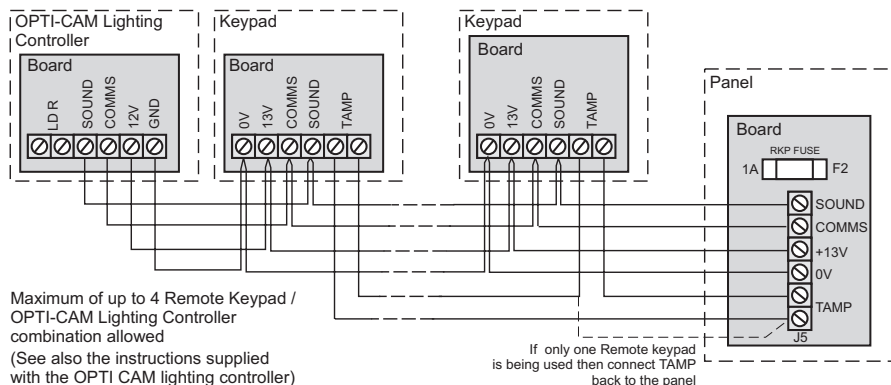
**Security zones**



**Note:** The G3 range of panels are **not supplied with wire links** for unused zones. All unused zones must be programmed out by setting them to *disabled* using the **Zone Type** function see page 19.

It is recommended that no more than 10 magnetic contacts are connected to the same zone.

Wiring the system

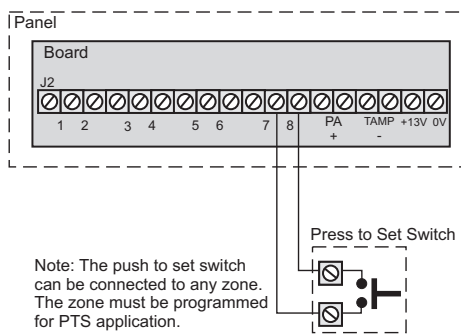


## Engineering information

## Accenta/Optima G3 Intruder system

### Push to set zone

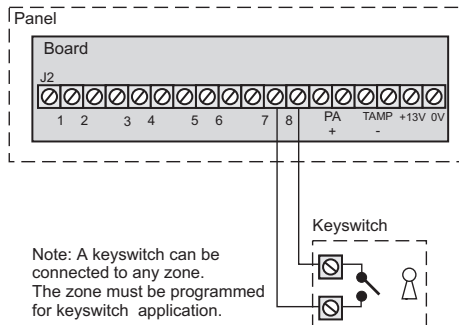
Any zone can be wired and configured as a Push to Set input. This can be a standard door bell push located outside the premises. After starting the exit timer the building is vacated. As the switch is then momentarily closed, a chime tone is produced and the system Sets. Sometimes referred to as 'Terminate Set' this facility is mandatory for communicating systems installed to NACOSS guidelines.



Push to set zone

### Remote keyswitch zone

Any zone can be wired and programmed as a keyswitch input and used with a remote keyswitch or lock switch. For security reasons it is recommended that a tamper proof switch is used and that the switch wiring is not accessible from outside the premises.



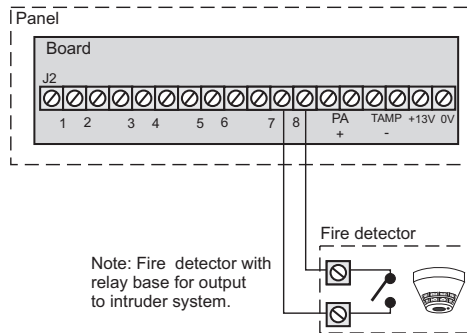
The keyswitch may be used to Set (open contacts) or Unset (closed contacts) independently of RKPs. However in this situation the keyswitch may have to 'catch up' with the system. For example if the system is Set via an RKP and Unset with the keyswitch, it

would have to be momentarily turned to its Set position then returned to its Unset position.

The keyswitch will always Set program 1. It will also Unset the system or switch off an alarm activation. To Reset after an alarm and return to Day mode, the Reset key on the RKP will have to be pressed.

### Fire zone

Any zone may be programmed as a fire zone. This will automatically exclude the availability of the zone from programs and normal security applications.

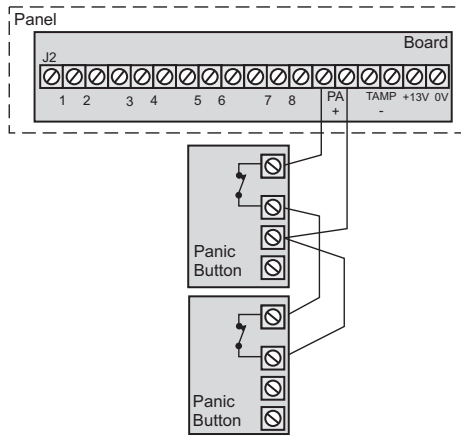


There are two types of fire zone, **Standard** and **24 hour** type. The **Standard fire** zone detects fires only when the system is Set, whereas the **24 hour fire** zone detects fires all the time and will operate whether the system is Set or Unset. A fire will cause a distinctive internal sounder tone. The external sounders will pulse on and off at 2 second intervals and all RKP indicators will flash the affected zone.

### PA circuit

Any quantity of normally closed type personal attack button may be wired in series and then connected to the PA circuit.

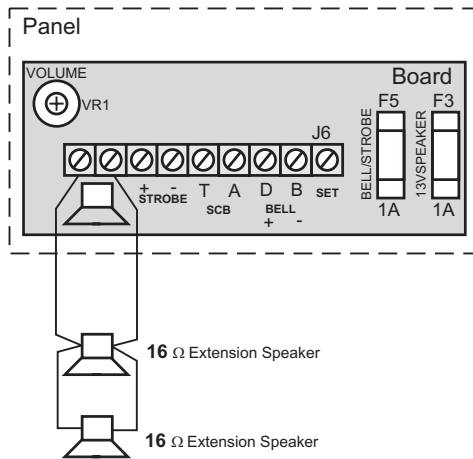
Operational in Day and Set, the PA circuit will cause a full alarm condition when activated. PA is indicated on the control panel or RKP as Attack.



PA buttons may be fitted near the front door, or in a bedroom.

**Extension speaker**

Extension speaker may be connected to the loudspeaker terminals to produce high volume alarm tones and low volume entry / exit fault tones.

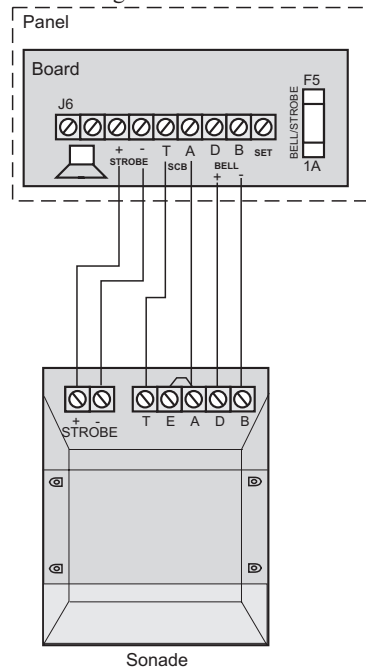


Up to two 16 ohm extension speakers may also be wired across the speaker terminals. Mounted in convenient positions within the installation the extension speakers will reproduce all of the alarm tones generated by the control panel.

A control marked VOLUME in the centre of the PCB may be used to adjust the low volume entry/exit tones to suit environmental conditions. To adjust this control, partially lift up the top cover.

**Bell Output (External sounder)**

The bell is usually installed in a high position from where the bell could be seen and heard. Terminal T A D B are for connection to the external bell or sounder. These terminals provide a power/hold-off supply, sounder trigger and tamper circuit to protect the external sounder housing.



The terminals are summarised as follows:

- T - -Ve tamper return
- A - -Ve supply (0V)
- D - +Ve supply (12V)
- B- -Ve Sounder trigger

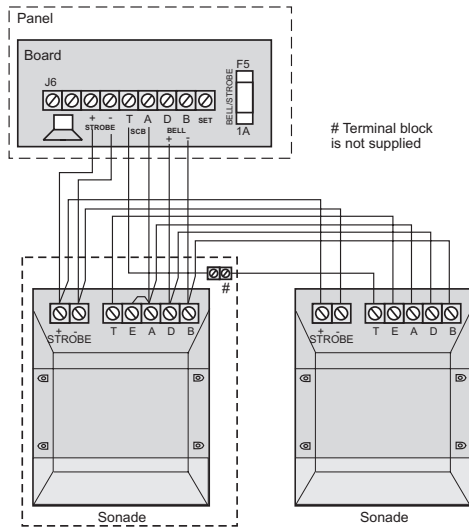
For ease of installation, ADE sounders and modules use the same markings.

Where a discrete bell sounder is used, it should be connected to terminals D & B. Terminals T &

Extension speaker

## Engineering information

Are then used for tamper protection for the sounder housing.



13V Supply output

Where self contained / powered sounders are used, carefully follow the manufacturers instructions, match each of the terminals to those above.

### 13V Supply output

The 13V output is to power detectors which require a voltage supply (PIR detectors etc). The supply is present at all times and may be used to supply a total load of 350mA.

### Set

The output, marked SET is used with latching detectors. The output becomes positive on correct Set of the system and is removed at the commencement of entry time or entry of the valid user code.

## Accenta/Optima G3 Intruder system

### Remote signalling Input and Outputs

These outputs are not applicable to the Optima compact G3 panel.

These terminals have been provided for connection to remote signalling equipment such as a digital communicator, Red Care STU or speech dialler.

**Note:** The operating polarity of the Communicator output terminals are programmable.

**L/FAIL** This is a telephone line fail input which is held at approximately 6V by the panel circuitry. The input is activated when pulled to 0V by the telephone line fault output of the communicator. This is usually a voltage free relay or open collector transistor.

When a telephone line fault occurs in the Day mode the panel provides an audible double beep every 10 minutes. This indication is automatically cleared when the fault is removed.

A telephone line fault which occurs while the system is Set will not cause an alarm condition but any bell delay which is programmed will be cancelled and any intruder alarm which is triggered will operate instant sounders.

**13V 0V** These terminals provide a 13V supply for the communicator up to a total load of 200mA. The output is protected by a 250mA thermal fuse. If this fuse operates it may be reset by removing the load and allowing a few seconds for it to recover.

**OUTPUT PORT** By default these outputs are programmed as active low output. They are held at 13V and fall to 0V when active, it can source or sink 10mA. The output polarity can be programmed.

These outputs would normally be connected directly to the input channels of wire in type communicators and STUs.

Alternatively each output can be used to drive a relay (coil resistance > 1200 Ω) connected between the output terminal and the 13V supply terminal. The relay will energise when the output port operates. It is recommended that a back EMF protection diode is used in parallel with the relay coil.

**FIRE** The fire output operates when the fire zone is triggered.

**PA** The PA output operates when a PA alarm is triggered or a duress code is used.

**INT** The intruder output is operated when an intruder condition is triggered whilst the system is set.

**SET** The Set output operates whenever the system becomes set and is used to indicate opening and closing.

**ABORT** Operates when an intruder alarm condition is switched off.

**CONF** The confirmed alarm output operates when 2 independent zones are activated during the same alarm condition.

**Important Notes**

- a. Each output has been configured as active low and will normally require the EPROM or NVM for the communicator or STU to be programmed as active low or positive removed. However there may be differences between some pieces of equipment and some Alarm Receiving Centres (ARCs).
- b. Where the communicator is powered from an external source, not the panel and the outputs are being used without relays, the panel and external power supply will require a commoned negative supply rail.

- c. If the communicator is not fitted inside the panel and abort is being used, care should be taken to ensure that the abort connection cannot be damaged or severed as this could cause the ARC to incorrectly filter an alarm signal.
- d. It is very important that communicating systems are fully tested and that all signals are correctly received at the ARC when the system is installed and serviced.

**Filtering of Intruder alarms**

A condition of most police Force Policies and under the guidance of NACOSS NACP 14 (Code of Practice for intruder Alarm Systems Signalling to Alarm Receiving Centres) is that all intruder alarm signals received by an Alarm Receiving Centre (ARC) must be filtered to establish their validity before passing to the police.

The exact method of filtering should be decided according to the regional Police Force Policy and ARC procedures.

In general, the panels offer the following methods which could be used to filter an alarm.

**Set/Unset** A Set or Unset signal which is received by the ARC at around the same time as an intruder signal can be used to filter the alarm.

**Abort Output** The abort output operates whenever a user code is entered or a keyswitch is used to switch off an intruder alarm condition. When an abort signal is received by ARC at or around the same time as an intruder signal, the alarm can be filtered.

**Restore of the Intruder Output** The intruder alarm output is restored to 12V whenever a user code is entered or a keyswitch is used to switch off an intruder alarm condition. Where an intruder alarm is shortly followed by a restore at the ARC, this can be used to filter the alarm.

Factory set condition

Factory set condition

User code 1 - - - - - 0123  
 User code 2 - - - - - Not programmed  
 Duress Code - - - - - Not programmed  
 Engineer Code - - - - - 9999  
 Bell Duration - - - - - 20 minutes  
 Bell Delay - - - - - No delay

*Program 1*

Zone 1- - - - - Timed  
 Zone 2- - - - - Time Inhibited  
 Zones 3...8 - - - - - Immediate  
 Exit time- - - - - 30seconds  
 Entry - - - - - 30seconds  
 Exit mode - - - - - timed

*Program 2*

Zone1 - - - - - Timed  
 Zone 2- - - - - Time inhibited  
 Zone 3...8 - - - - - Immediate  
 Exit time- - - - - 30seconds  
 Entry time - - - - - 30seconds  
 Exit mode - - - - - Disabled

*Program 3*

Zone 1- - - - - Timed  
 Zone 2- - - - - Time Inhibited  
 Zone3...8 - - - - - Immediate  
 Exit time- - - - - 30seconds  
 Entry time - - - - - 30seconds  
 Exit mode - - - - - Disabled

Security Zones - - - - - Zones 1...8  
 Standard Fire zones - - - - - None programmed  
 24 hour Fire zones - - - - - None programmed  
 Push to set zones - - - - - None programmed  
 Keyswitch zones - - - - - None programmed  
 Double Knock zones - - - - - None programmed  
 Omit prevent zones- - - - - None programmed  
 Zone debounce period - - - 300mS ALL zones

*Flag A*

Silent PA - - - - - No  
 RKP PA Enable - - - - - Yes  
 Engineer Reset- - - - - No  
 Anti Code Reset - - - - - No  
 Door bell on push to set - - - No  
 Single key setting - - - - - No  
 Strobe on setting - - - - - No  
 External bell on Fire - - - - - No

*Flag B*

**Note:** The entries marked # are not applicable for Optima compact G3 panel.

#Communicator Output  
 active high - - - - - No (active low)  
 #Line Fail  
 active high - - - - - No (active low)  
 User Reset PA - - - - - No  
 User Reset Fire - - - - - No  
 #Program 1 to report - - - - - Yes  
 #Program 2 to report - - - - - Yes  
 #Program 3 to report - - - - - Yes  
 Rearm counter - - - - - 3 (re-arms)  
 Service counter - - - - - Off  
 Site Code - - - - - 00

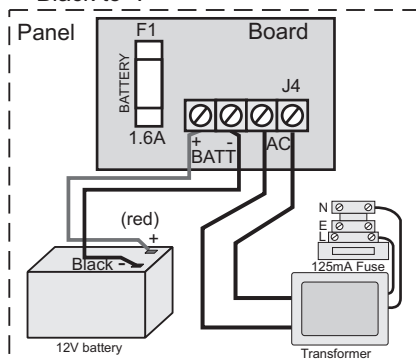
*Light Controller*

Light Threshold - - - - - 50%  
 Light Hold Time - - - - - 30 seconds  
 Light Channel 1 - - - - - No zones assigned  
 Light Channel 2 - - - - - No zones assigned  
 Light Channel 3 - - - - - No zones assigned  
 Light Channel 4 - - - - - No zones assigned  
 Light Channel 5 - - - - - No zones assigned  
 Light Channel 6 - - - - - No zones assigned  
 Light Channel 7 - - - - - No zones assigned  
 Light Channel 8 - - - - - No zones assigned

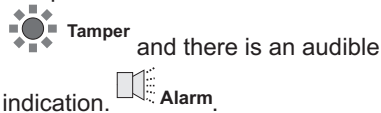
**First Power up**

Before power up for Optima compact only - fit the top cover on to the base and connect the speaker wires. Leave the cover in position throughout the reset of the installation.

- a. Check that the factory fitted links are connected to terminals PA, TAMP and T-A.
- b. Fit the battery wires to the BATT terminals on the PCB, Red to + and Black to -.



- c. On connecting the battery the system will now go into alarm condition and Tamper is indicated



- d. Fit the cover to hold down the tamper spring at the bottom centre of the PCB.

- e. Enter the user code:  
0 1 2 3 (factory set at 0123). The alarm condition will cease and the system will go to Day mode



- f. Immediately enter the engineer code



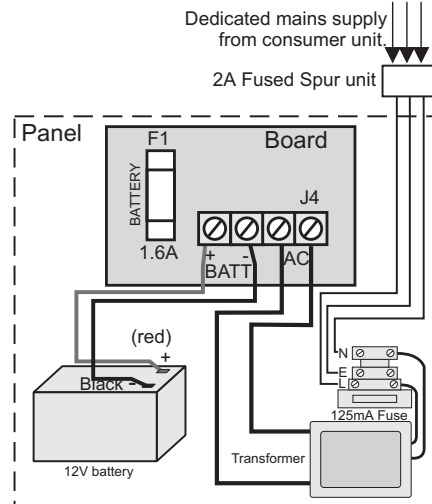
The system is now in *Engineer program mode* and can be programmed. Note the



**Note:** The G3 range of panels are **not supplied with wire links** for unused zones. All unused zones must be programmed out by setting them to *disabled* using the **Zone Type** function see page 19.

**Mains Connection**

The mains power should be connected using a 3 core cable of not less than 0.75mm sq. from a fused spur to the mains connector inside the control panel. The 2 Amp fused spur must be located close to the control panel.



**Note:** The mains supply must be connected by a technically competent person and according to current IEE regulations.

**CAUTION:** To avoid the risk of electrical shock you must always totally isolate the mains supply before opening the control panel cover(s).

- Mains Input Fuse rating: 125mA, 250V type T (anti surge) and of a type approved to IEC 127 part 2 sheet III.

On connecting the mains supply to the panel the power indicator is lit.



First Power up

## Engineering information

### Testing the system

Complete the wiring of the system and then:

- fully test the system and ensure it is fault free.
- Fully program the system
- Fill in the installation log at the back of the manual and retain if for future reference.
- Finally explain the operation of the system to the end user. The Operating Instructions are attached to the centre of this manual. Detach them and leave them with the user.

### Engineer program mode

The panel may be programmed to suit a wide variety of installations. .

Once the *engineer program mode* has been accessed, each configuration may be changed in any order. As each configuration is completed the system will automatically return to top level of engineering program mode.

Before entering *engineer program mode* the system should be in the Day mode, with the Day and Power indicators lit.

Key

	LED steady On indication
	LED flashing indication
<input type="radio"/>	LED Off
	ARC Output to Alarm Receiving Centre Communicator outputs are not applicable for Optima compact G3 panel
	Internal sound
	Sound description
	NOTE: In general a flat beep is an indication of an incorrect key press.
	External devices
	Strobe
	Bell

### To exit

- Quit the current function
- Leave program menu
- Down one menu level

## Accenta/Optima G3 Intruder system

### System indications

Day Power - Unset system indication

Power - Set system indication

### To enter Engineer program mode

**Note:** The factory configured engineer's access code is 9999. If however this code is changed then enter the appropriate code.

Prog

ZONE 1 - 8 Momentarily On

9 9 9 9

Acknowledge

Tamper  Day

### To Exit Engineer program mode

Reset

Day

### To reset panel to Factory set conditions

**CAUTION:** All configurations of the panel are restored to factory 'default' conditions.

Within 5 seconds of powering up the panel

Reset

reset beeps

**Access Codes**

There are four codes used in the system, all are 4 digit and can be set to any number from 0000 to 9999. The access codes ensure that only authorised users can operate the system.

*User 1 and 2 codes*

The user 1 and user 2 codes have the same operation for testing, Setting and Unsetting, but user 1 code which is usually considered to be the Managers code has the authority to add, change or delete the user 2 code and duress code.

*Duress code*

Should be used in a hold up situation where there is pressure to Set or Unset the system. Entry of the code will allow the system to work normally but also generate a silent PA type alarm by operating the PA communicator output.

*Engineer code*

Accesses the Engineer Program mode to allow the system to be programmed. The engineer code will not set or unset the system.

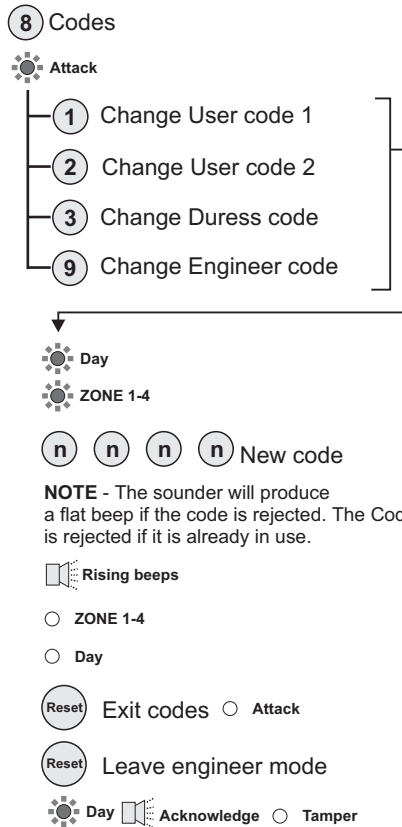
If configured the Engineers access code can be used to reset the system after an alarm.

**Note:** Entering an invalid user code will operate the code tamper. After nineteen incorrect key pushes a full alarm condition will be generated.

Example: To change User 1 code to 3457 Press:



Enter Engineer program mode



**NOTE** - The sounder will produce a flat beep if the code is rejected. The Code is rejected if it is already in use.

Access Codes

## Engineering information

### Programs

The panel uses 3 Part Set routines known as Programs. In each Program the exit mode can be changed and the zone may be set up to have a different function.

The examples below show how 3 typical Programs could be used in a house.

- Program 1** : To arm all of the zones and become Set as the user leaves the property and closes the final door.
- Program 2** : To protect the perimeter of the property in the evening and become Set after say 20 seconds.
- Program 3** ; To protect the downstairs areas of the house at night and become Set instantly and silently.

**Note:** The above are purely examples. The installer must program the panel to configure all the circuits to the customer's exact requirements.

### Zone Function per Program

**Timed** : This function would be used to protect the main entry/exit door of the entry route.

**Time inhibited** : This is a zone which, on setting the panel, allows access to the Entry / Exit zone. However, if the panel is set and an time inhibited zone is triggered before an Entry /Exit zone then an alarm will be generated immediately.

**Immediate**: This is a zone which will, when entered, go into alarm when the panel is set.

**Unused** : A zone that is programmed as an Unused zone by the Engineer, then is ignored by the panel. Primarily used for Part set options.

## Accenta/Optima G3 Intruder system

### Exit Modes program

**Timed** A timed Program will become Set as the Exit timer expires.

#### Terminated Set

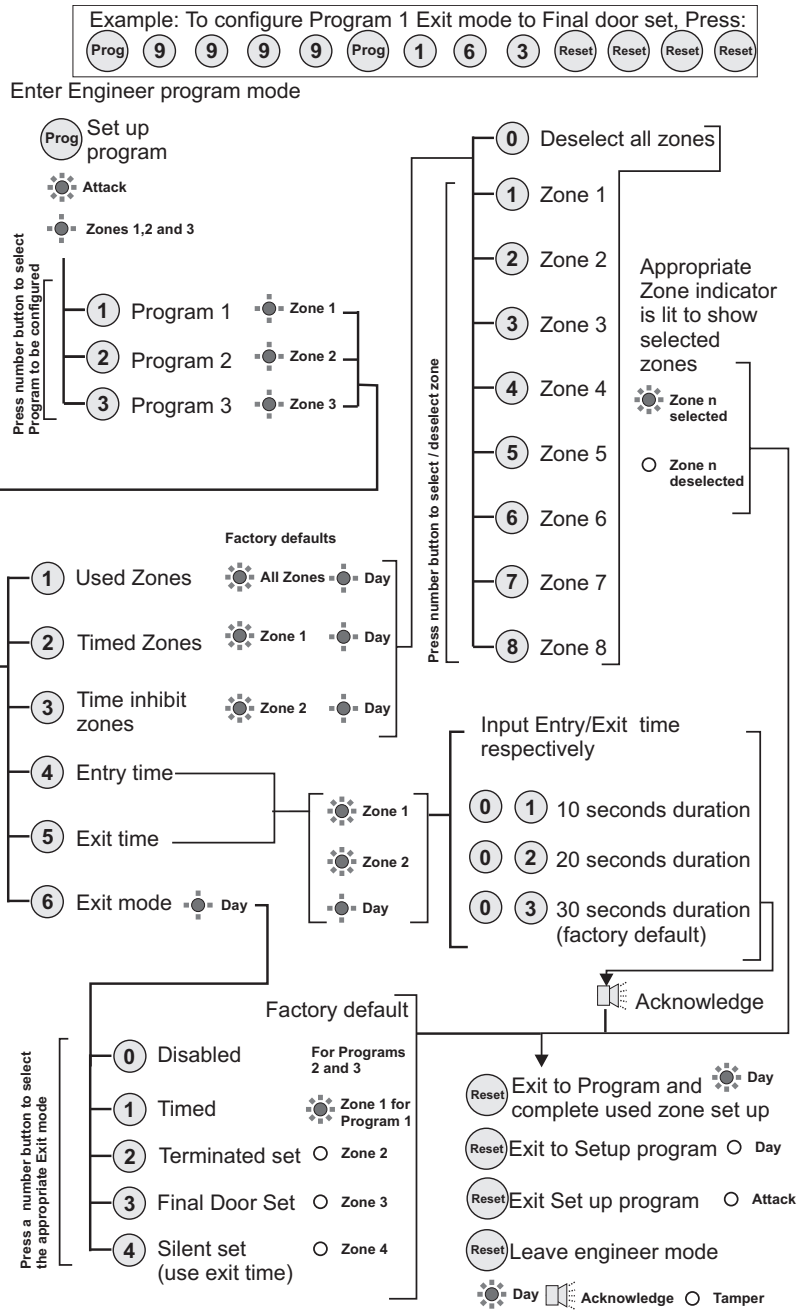
This sets an infinite time out, which will only set once the PTS input is operated.

**Final Door** A final door program will be Set 5 seconds after a timed zone has opened and closed.

**Silent Set** This operates exactly the same as 'Timed' but completely silent without the internal sounder signal.

**Note:** If a program is not selected when the user Sets the system, Program 1 will automatically Set. Therefore Program 1 is usually considered as the Full Set Program containing all of the zones.

Programs 1,2 and 3



Programs 1,2 and 3

Alarm and Walk tests

Alarm and Walk tests

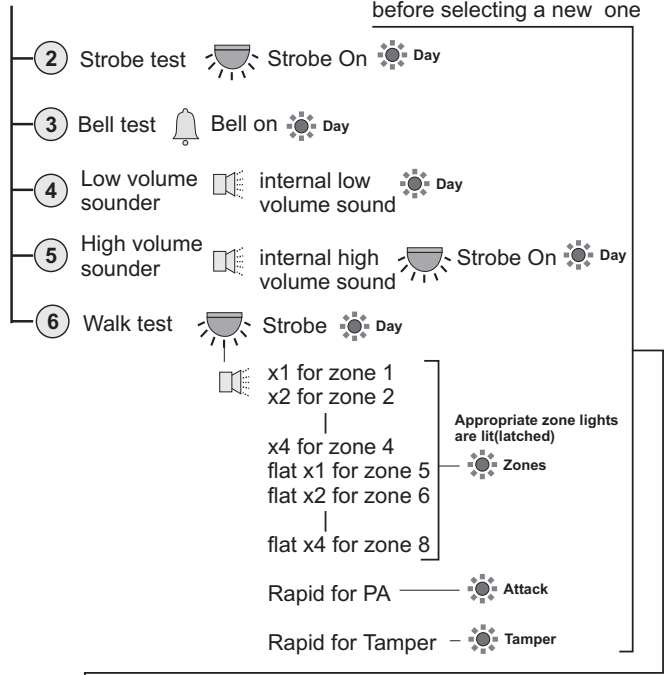
Example: To start bell test and thereafter to stop bell test.  
 Prog 9 9 9 9 1 3 0 Reset Reset

Enter Engineer program mode

1 Alarm test

Attack

Press zero to turn off options 2,3,4 and 5 before selecting a new one



0 OFF Day

Reset Exit current level Attack

Reset Leave engineer mode

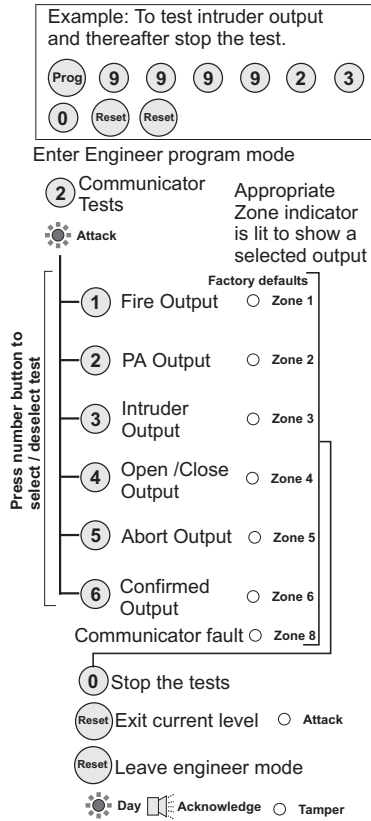
Day Acknowledge Tamper

The alarm test function allows you to test the Strobe, Bell, Low and high volume sounders of the system.

The walk test function allows each detector to be checked in order to verify that they are functioning correctly.

**Communicator tests**

**Note:** These tests are not applicable to Optima compact G3 panel.



The Zone 8 LED is lit to show there is a communicator line fault.

*Flag A descriptions:*

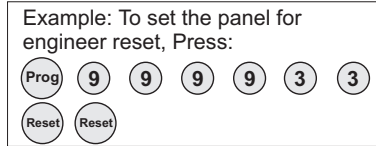
**Silent PA :** When this flag is set and on operating PA will cause a Silent PA alarm.

**RKP PA Enable:** When this flag is set the keypad PA buttons are enabled.

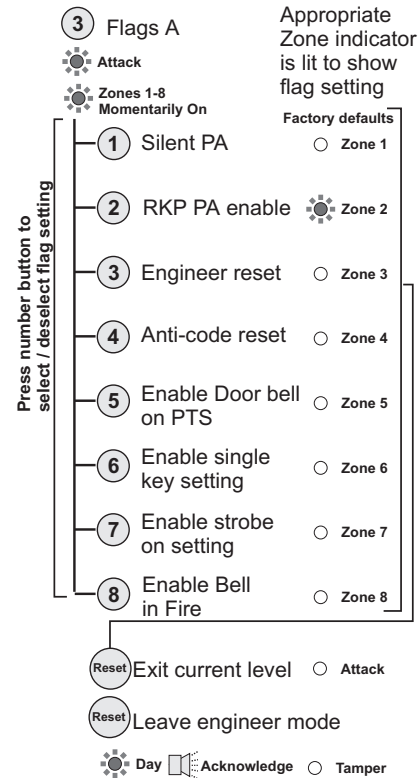
**Engineer Reset:** When this flag is set an Engineer code must be entered to reset the system after a full alarm. When the flag is clear the system can be reset by the user.

**Anti-code Reset:** When this flag is set it enables the anti code reset function.

**'Flag A' Options**



Enter Engineer program mode



Communicator tests

**Enable Door bell on PTS:** When this flag is set it allows a zone circuit programmed as PTS to operate as a door bell.

**Enable single key setting:** When this flag is set it allows the panel to be set by pressing the SET button (ie code entry is not needed), however a 4 digit code is needed to Unset the panel.

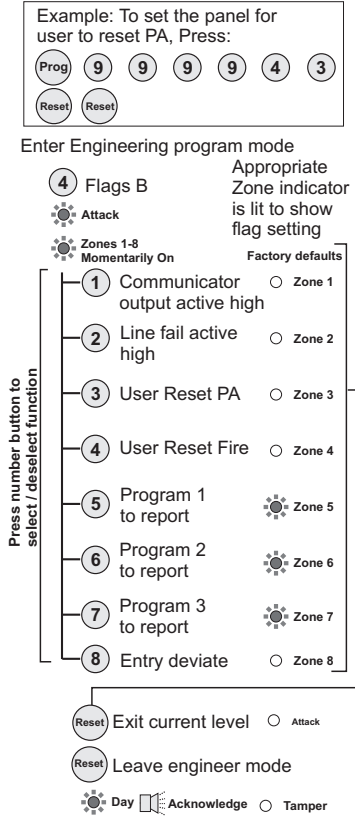
**Enable strobe on setting:** When this flag is set the external strobe will flash for 3 seconds once the panel has successfully set.

**Enable external Fire bell:** When this flag is set the system bell will sound 3 seconds On / 3 seconds Off during a fire alarm.

**'Flag B' options**

**Note:** The following settings: *Communicator output, Line Fail, Program 1, 2 and 3 to report* are not applicable to Optima compact G3 panel.

'Flag B' options



**Viewing the event log**

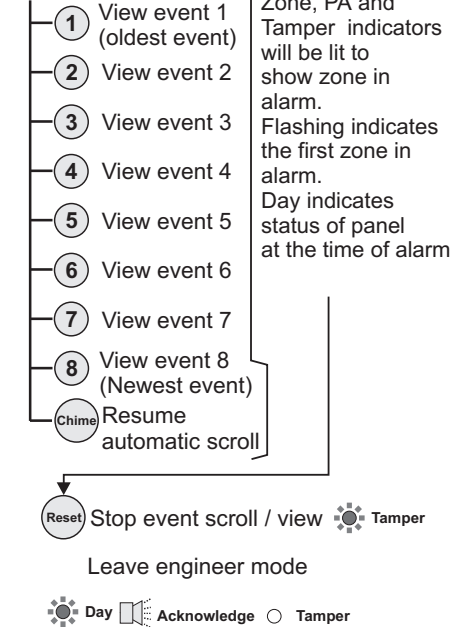
Example: To view up to 8 previous events and thereafter to stop the event scroll, Press:

Enter Engineer program mode

Chime View the event log

Tamper  
Automatic event scroll  
Starting from event 1 to 8

To manually scroll



*Flag B descriptions:*

**Communicator output active high:** When this flag is set it configures the polarity of communicator outputs to active high, that is output is held at 0V rising to 12V in alarm.

**Line fail active high:** When this flag is set it configures the polarity of line fail input.

**User Reset PA:** When this flag is set it permits the user code to reset the system after a PA alarm, even if Engineer reset flag is set.

**User Reset Fire:** When this flag is set it permits the user code to reset the system after a Fire alarm, even if Engineer reset flag is set.

**Program n to Report:** When this flag is set it allows program n to activate the intruder and confirmed outputs. (Main use is to prevent a night time program from communicating).

**Entry deviate:** When this flag is set it permits an immediate zone to be activated during the entry period without causing a full alarm.

### Zone Type

The G3 range of panels are **not supplied with wire links** to terminate unused zones. Therefore all unused zones must be programmed out by setting them to *disabled* using the **Zone Type** function.

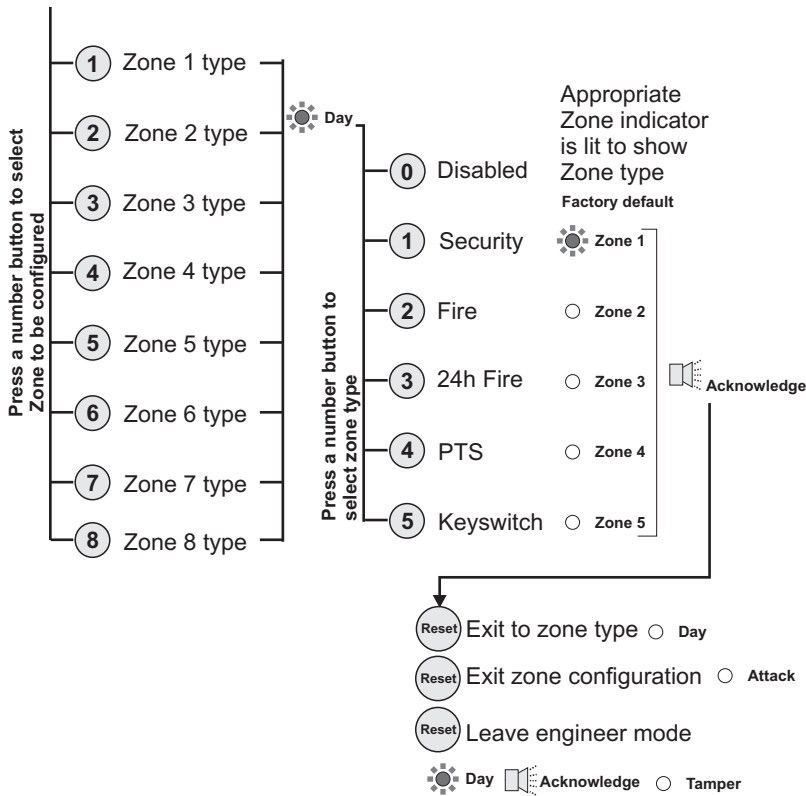
Example: To disable an unused zone 8, Press:

Enter Engineer program mode

**5** Zone Configuration

Attack

All Zones



Zone Type

Zone Attributes

Example: To configure zones 4 and 5 for 'Double knock' operation, Press:  
 (Prog) (9) (9) (9) (9) (6) (1) (4) (5) (Reset) (Reset) (Reset)

Enter Engineer program mode

(6) Zone Attributes

☀ Attack

(1) Double Knock

(2) Omit Prevent

☀ ZONE 1 - 8 Momentarily On

(3) Zone Delay

☀ Day

(0) Deselect all zones

(1) Zone 1

(2) Zone 2

(3) Zone 3

(4) Zone 4

(5) Zone 5

(6) Zone 6

(7) Zone 7

(8) Zone 8

Factory defaults:

All zones have delay of 300mS

No Zones are set as omit prevent

No zones are in double knock

Press number button to select / deselect zone delay, Omit zone or Double knock

☀ Zone n selected

○ Zone n deselected

(Reset) Exit to zone type ○ Day

(Reset) Exit zone attributes ○ Attack

(Reset) Leave program mode

☀ Day ☀ Acknowledge ○ Tamper

Zone Attributes

Zone attribute descriptions

**Double knock:** The panel will require 2 activations of the same detector before causing an alarm condition. This setting is used as a false alarm measure.

**Note:** Double knock must not be used on zones having magnetic door/window contacts.

**Omit Prevent:** The panel will prevent the zone from being omitted by the user when setting the system.

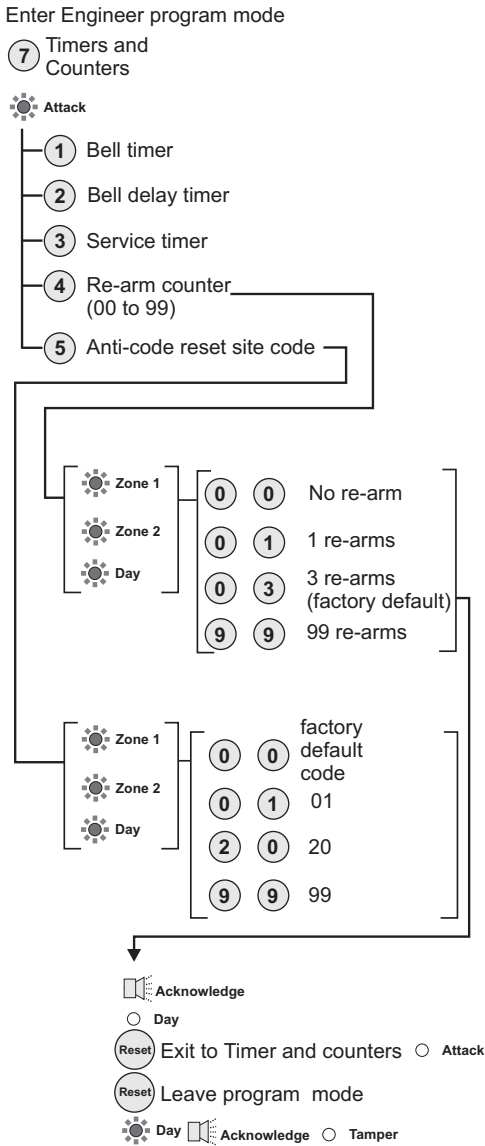
**Zone Delay:** The panel programs a zone delay to 800mS to give extra immunity to false alarms.



Re-arm and Anticode reset code

Example: To set panel re-arms to 10 times before panel is shut down, Press:

Re-arm and Anticode reset code



Re-arm

After an alarm the panel will automatically reset itself when the bell timer has expired. Any zones which still remain open at that time will be omitted automatically.

**Note:** By default there are 3 automatic re-arms before the panel is shut down.

Anti code reset (Engineer reset)

If the system has been programmed to be engineer reset, after an alarm it will lock out and the RKP will continually display the cause of the alarm. The engineer would then be required to attend the site and use the engineer code to reset the system.

Where anti-code reset has also been enabled, the RKP will still show the alarm cause and also display a 4 digit 'quote code' by sequentially flashing zone indicators 1-8.

At this point the end user would contact the engineer. After determining the cause of the alarm and deciding that a engineer call was not necessary, a 6 digit anti-code would be given to the user which would reset the system.

This anti-code is generated from a small computer program which is installed at most UK Alarm receiving Centres, or alternatively can be run on a PC by the engineer.

Security of the anti-code reset system is maintained by a 2 digit site code which is set up in the anti-code generator programme. The same 2 digit site must also be set up in the control panel during installation.

Lighting controller

Example: To assign zones 1 and 2 to lighting controller channel 1, Press:  
 (Prog) (9) (9) (9) (9) (9) (1) (1) (2) (Reset) (Reset) (Reset)

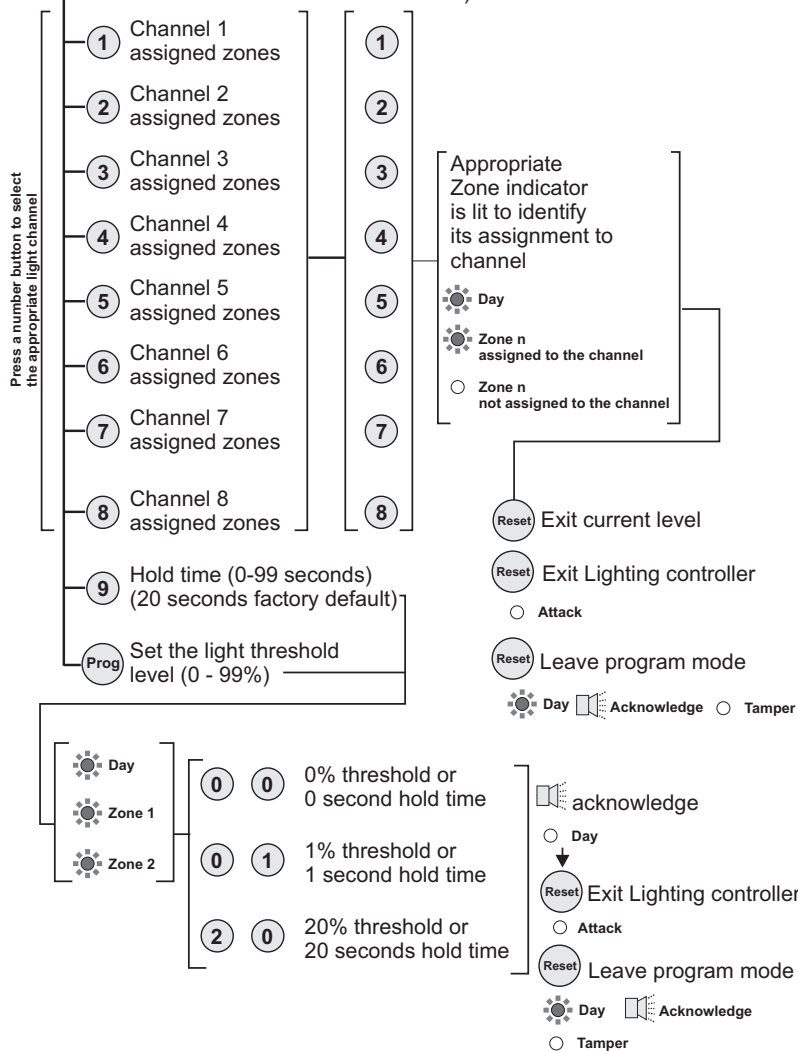
Enter Engineer program mode

(9) Lighting Controller

☀ Attack

☀ All Zones

To assign zones to channel press to select and again to deselect zone (Factory default: No zones are selected)



Lighting controller

## Engineering information

### Faults

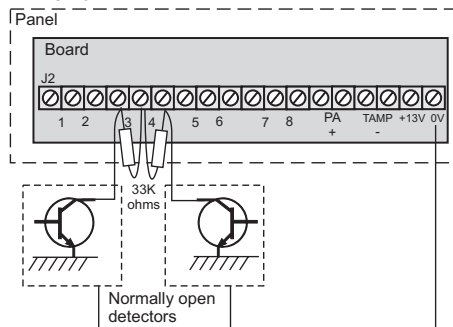
Fault conditions are often the result of minor installation errors or misinterpretation of the equipment being installed. The following points outline the most common installation and commissioning faults.

- As supplied the user code is 0123 and the engineer code is 9999. Both codes will revert back to these default settings on clearing the NVM.
- The Engineer Program is accessed directly from Day mode via the engineer code.
- If a tamper, PA or 24Hr fire fault is present on the system, it will go to a lock out condition (showing the appropriate indication). The keypad will not produce any audible responses and the system will not operate until the fault has been found and rectified.
- The most common cause of a zone not responding to detection is incorrect wiring. Normally closed detectors must be wired together in a series loop before connecting into the appropriate ZONE terminals. Tamper is series wired in the same manner.
- Where a permanent zone fault is showing and the loop resistance is found to be in order, the most probable cause is a short circuit between the zone wiring and the tamper wiring. When measured with a multimeter the series resistance between the zone and tamper wiring should be infinitely high.
- If totally lost as to the cause of a fault, remove ALL wiring from the PCB. Refit the 4-links and test the system. Never fit links to any positions other than those marked on the PCB.

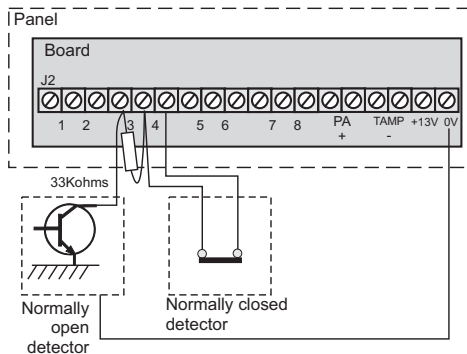
## Accenta/Optima G3 Intruder system

- Before testing or replacing any fuses, ALL power must be removed. Fuses which fail continually are almost certainly the result of a short circuit or low resistance across the 13V supply or external bell supply (terminal D).
- Whenever working close to the mains supply or connector, you should exercise extreme caution. Always isolate the mains supply before removing the control panel covers.
- Where normally open detectors are connected to adjacent zones two pull-up resistors (not supplied) of value 33kohms must be installed.

The example below shows how to wire normally open detectors on zones 3 and 4.



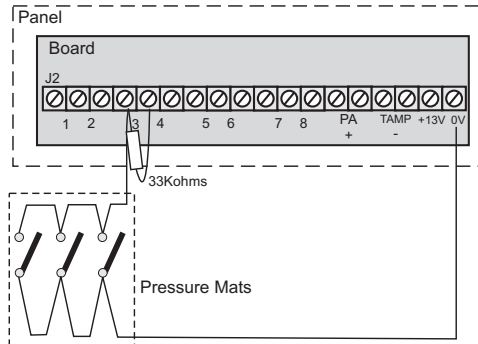
The example below shows how to wire normally open detector on zones 3 and a normally closed detector on zone 4.



## Accenta/Optima G3 intruder system

## Engineering information

- j. Where **Pressure mats** are being used these must be connected to a zone in the manner shown. The example below shows pressure mats connected to zones 3.



## Specification

Indicators on Control panel or RKP's	Zone 1-8, Power, Attack, Tamper and Day
8 Zones	+ve loop, programmable function in each program
Tamper	-ve loop, internal sounders in Day – Full alarm in Set
PA	+ve loop, always active
Bell Output	12V, adjustable timer (1-99 mins) or continuous
Strobe Output	12V latching
Extension Speaker	16 ohms (2 maximum) 130mA each
Exit/Entry timers seconds	Programmable (10-990 seconds)
Zone Input Delay	300 or 800mS
Set +ve Output	0V in Day (sinking 40mA)
Current Consumption Control panel	Standby 80mA Alarm 250mA

Current consumption RKP	Standby 40mA Alarm 70mA
Low voltage output	13.8V dc stabilised (+/-5%) up to 350mA Accenta/Optima G3 mini/compact - 12V, 1.2 or 2.1Ah Accenta/Optima G3 - 12V, up to 7Ah
Rechargeable Battery	
Charge Voltage	13.8V dc (+/-5%)
PCB Fuses	1.6A & 1A 20mm quick blow
Mains Input fuse	125mA, 250V type T (anti-surge) type approved to IEC 127, part 2 sheet III
Total Current Output	1Amp when supported by a fully charged battery
Mains Supply Voltage	230V (+/-10%) 50Hz max load 0.2A
Total Current Output	1Amp when supported by a fully charged battery
Mains Supply Voltage	230V (+/-10%) 50Hz max load 0.2A
Ambient Operating temperature	0 –40degC
Enclosure construction	3mm Polycarbonate
Dimensions	Accenta/Optima G3 mini/compact H 200mm W 253mm D 55mm Accenta/Optima G3 H 230mm W 290mm D 80mm RKP H 85mm W 122mm D 28mm

Specification

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**Servicing organisation Details**

**Parts**

Servicing organisation name:

Below is a list of approved parts and accessories.

Telephone number:

- 8SP 401 Accenta G3 panel
- 8SP 400 Accenta mini G3 panel
- 8EP 395 Optima G3
- 8EP 396 Optima compact G3 panel
- 8EP 219 Accenta LED RKP
- 8EP 332 Accenta LCD RKP
- 8EP 336 Accenta Speech Dialler
- 8EP 276 Informa
- 8EP 289 Extension Speaker
- 8EP 372 Opti-Cam Lighting Controller

Date of installation:

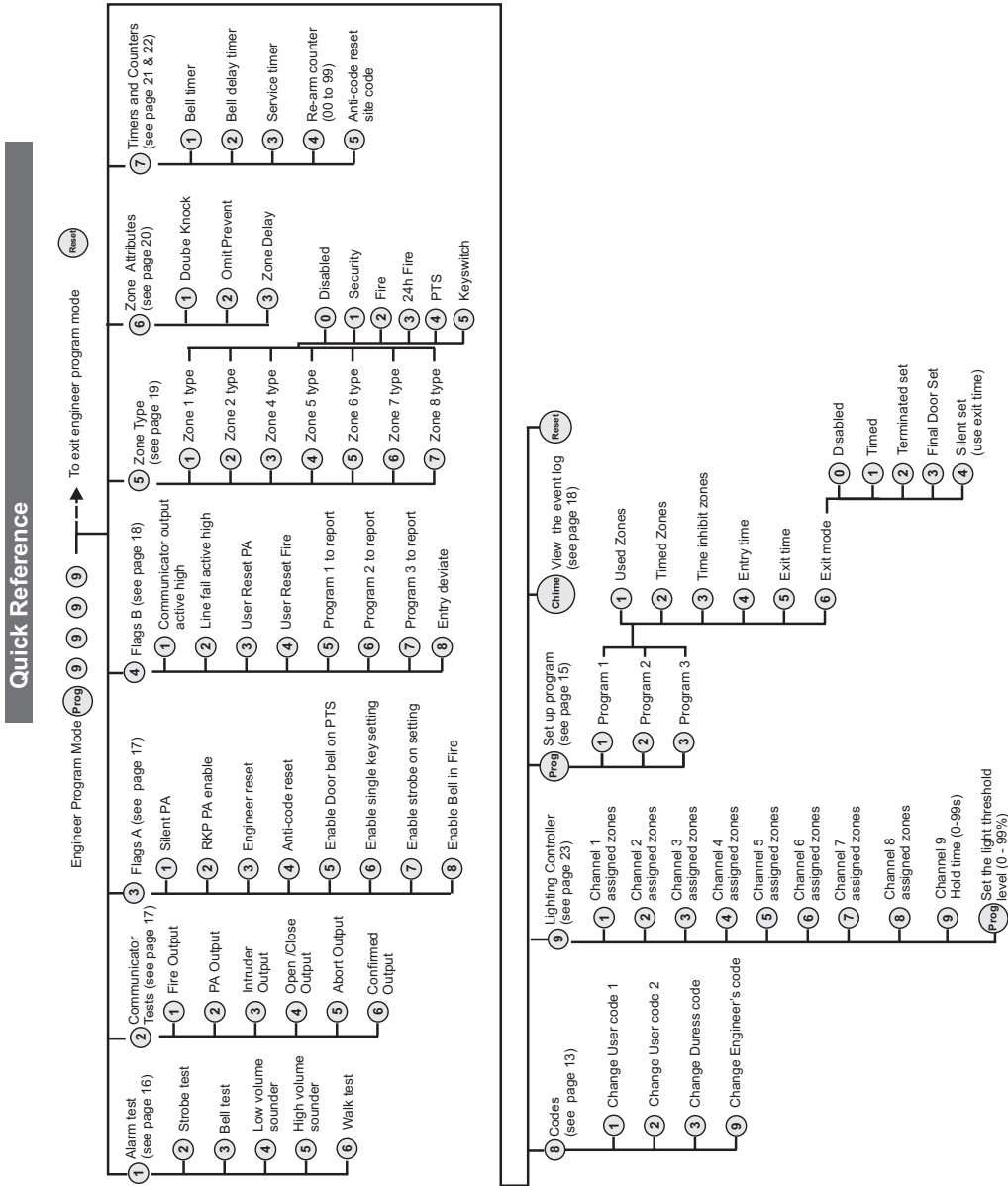
Account Number:

A range of detectors are also available, for more information contact your supplier.

	Resistance	Area protection and equipment used (eg PIR, Contacts..)
Zone 1		
Zone 2		
Zone 3		
Zone 4		
Zone 5		
Zone 6		
Zone 7		
Zone 8		

Servicing organisation Details

Quick Reference



The panels conform to the requirements of the European EMC and Low Voltage directives, and carries the CE mark

For Technical Support

: 0151 549 1550