

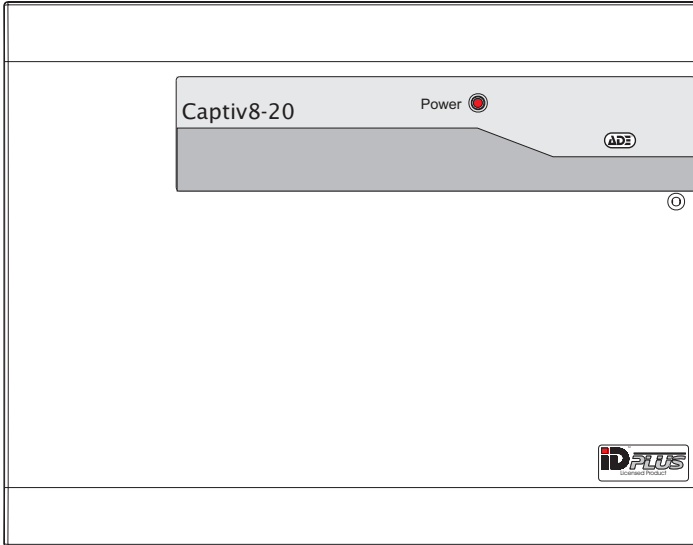
Captiv8-20

Intruder alarm system

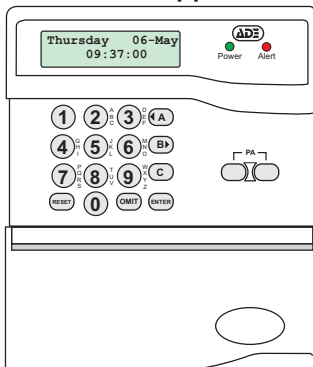
Engineering Information



Panel



Remote Keypad



The Captiv8-20 is a microprocessor based intruder alarm control system.

This document contains Engineering information on how to install and program a Captiv8-20 system.

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Introduction

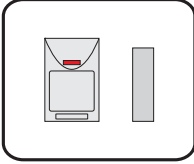
A Captiv8-20 panel based intruder alarm system can accommodate a maximum of 20 zones. The panel can have up to 20 iD Plus zones connected with a mix of up to 8 conventional closed loop or double end-of-line zones, as long as the total number of zones used does not exceed 20 zones. Additional conventional zones are possible by means of installing a single Zone Expander Unit (ZEX) and up to 4 Remote keypads (RKPs). A ZEX can have 8 conventional zones, while a Remote Keypad (RKP) can accept the connection of two conventional zones.

The Captiv8-20 panel is supplied housed in a polycarbonate box that may be mounted anywhere within the premises in location convenient for mains supply and access for future maintenance and service.

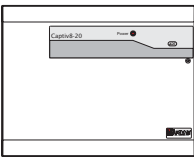
The control and indications of the system are given at the remote keypads. Each keypad has a 32 character display and push button controls, both having backlights. There are two indicators giving status of Power and Alert condition. The engineer programming of the system can be carried out at the installed keypads or using the upload download (UDL) software.

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 following the procedures and advice contained in this manual.



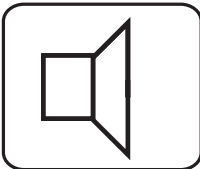
Plan the position of each part of the alarm system and the cable runs. **Detectors** should be sited with particular regard to the degree of coverage required and the function of each of the zones.



All of the system wiring is connected directly to the **panel**. The 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 **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 1A when supported by a fully charged battery. Calculate the total current consumption of every part of the system including the panel, remote keypads, external siren with strobe light (also called bell box) and detectors to ensure that this rating is not exceeded.

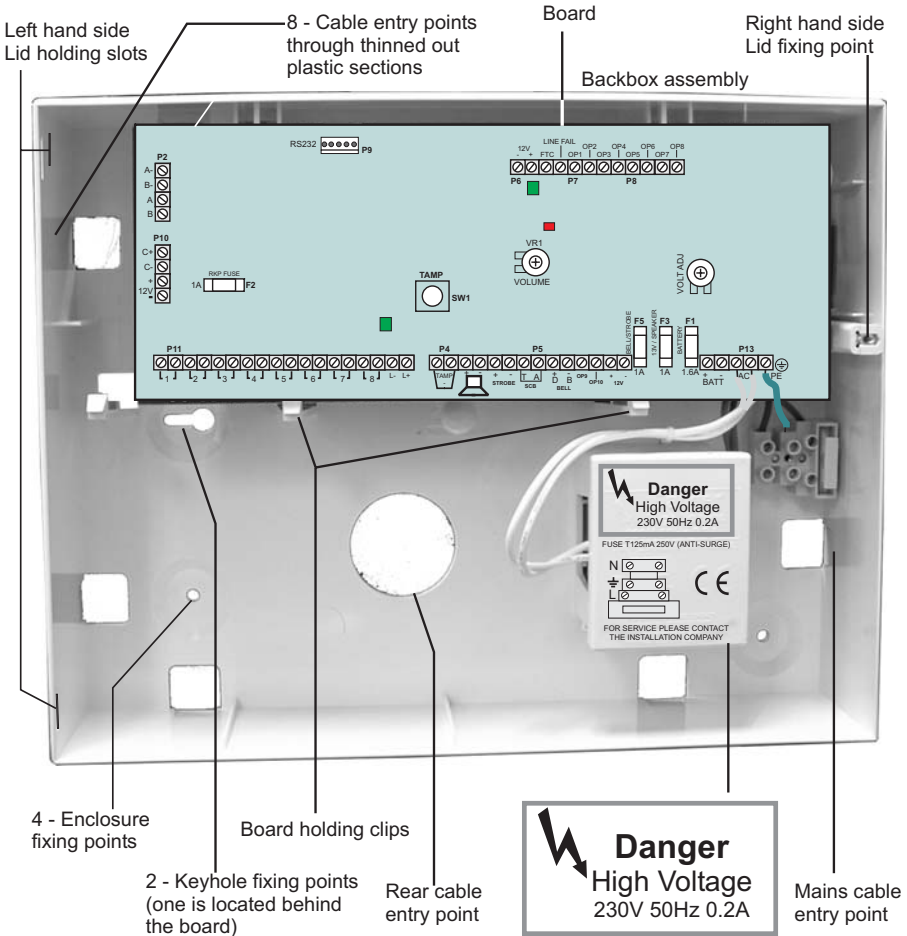



Depending on which area you live, you may be required, by law to notify the **Local Authority** and Police of the new security alarm installation. The local authority requirements may differ from area to area, therefore, it is advisable to contact local environmental officer to obtain full details of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

Panel installation

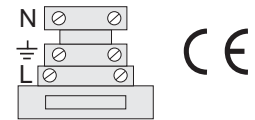
Remove the panel lid by removing the fixing screw and open the lid to the left to dislodge it from the backbox.

 **When mounting the panel ensure that it is located in a dry place away from damp areas.**






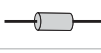
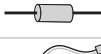


 **Danger High Voltage 230V 50Hz 0.2A**

FUSE T125mA 250V (ANTI-SURGE)



FOR SERVICE PLEASE CONTACT THE INSTALLATION COMPANY

Parts supplied with panel

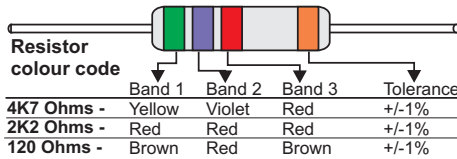
Part		Quantity
Fuse 1A 20mm x 5mm		1
Fuse 125mA 20mm x 5mm		1
Fuse 1.6A 20mm x 5mm		1
Resistor 2K2		8
Resistor 4K7		8
Battery lead		1
Telephone lead		1
Instructions		1

Mounting the panel

Disconnect the transformer wires from the board, these are marked AC. Carefully remove the board by gently pushing down the holding clips on the bottom edge of the board and withdraw it from the backbox.



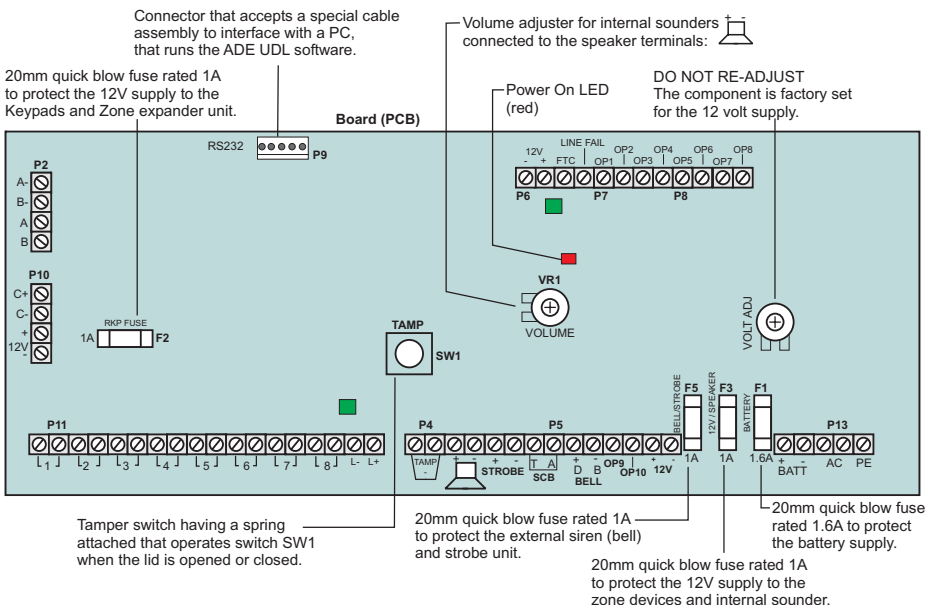
When replacing the board insert it into the top retaining slots while aligning it onto the bottom round support pillars. Push the bottom edge of the board down until it clips into place. Refit the transformer wires into the terminal.



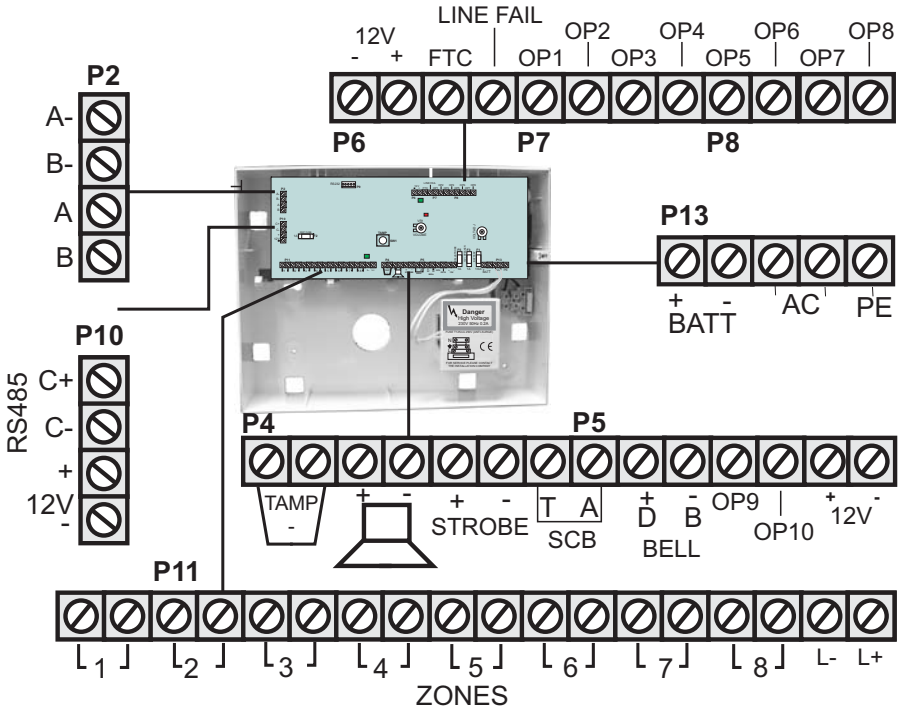
Fit the backbox to the wall with suitable fixings. Ensure the wall surface is flat to prevent backbox distortion. There are cable entry holes provided in the rear of the backbox and around the outside edges through the thinned out plastic sections which may be cut away as required.

Board (PCB)


Only the main components on Board are illustrated.



PCB Terminals



AC (P13)	Connects to the low voltage AC output (17.5V) of the mains transformer.	L- L+ (P11)	These terminals can accept the parallel connection of up to 20 iD Plus Zones, devices wired with iD Plus biscuits. The L+ terminal is protected by a thermal fuse rated at 200mA. Each zone can be set to: <i>SECURITY</i> <i>FIRE</i> <i>AUDIBLE PA</i> <i>SILENT PA</i> <i>24 HOUR</i> <i>TERMINATOR</i> <i>SHUNT CONTROL</i> <i>DOOR BELL</i> SECURITY is the factory default setting
BATT - + (P13)	Connects to a 12V rechargeable battery (up to 7Ah capacity) via the red and black wires supplied. The system is powered from battery should there be a mains failure.		
ZONES 1 to 8 (P11)	These are conventional CPU zones circuits of the panel. They can be wired as closed loop or double end-of-line. Each zone can be set to: <i>SECURITY</i> <i>FIRE</i> <i>AUDIBLE PA</i> <i>SILENT PA</i> <i>24 HOUR</i> <i>TERMINATOR</i> <i>SHUNT CONTROL</i> <i>DOOR BELL</i> SECURITY is the factory default setting	TAMP (P4)	This is a general purpose closed loop tamper circuit to protect closed loop zones, extension speakers etc. When the tamper loop is broken the local alarm will sound in Unset mode and full alarm will sound in Set mode .

 (P4)	This output delivers an audio signal to drive 16-Ohms extension speakers. Fitted at various points throughout the installation each speaker provides high volume alarm tones and low volume entry/exit warning tones. This output is protected by a 1A fuse (F5).	12V (P5)	This 12V supply is protected by a 1A fuse (F3), it can be used to supply power to the Zone devices and Output Ports.
+ - STROBE (P4)	This output is for connection of a suitable 12V strobe.	12V (P6)	This 12V supply is protected by a 200mA resettable fuse, it can be used to supply Output Ports.
T A D B (P5)	These terminals provide a power/hold off supply, trigger and tamper protection for external sirens (bell). T - -ve tamper return A - -ve supply (0V) D - +ve supply (12V) B - -ve sounder (bell) trigger	LINE FAIL (P6)	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 on communicator. This is usually a voltage free relay or open collector transistor.
OP1 - OP10 (P7, P8, P5)	These are 10 output ports, typically to drive into the input channels of standalone digital communicators and auto diallers. Each Output Port can be configured for Active High (source 10mA) or Active Low (sink 30mA) level output.	FTC (P6)	Fail to Communicate, an input that is used to override Bell delay. Pulled low by external communication equipment.
	Also each output is programmable to operate in one of the following conditions: BELL STROBE PA FIRE INTRUDER TAMPER SET ALARM ENTRY/EXIT SET RECEIPT CONFIRMED DETECTOR ISOLATE WALK TEST ENGINEERS ACCESS OK FOR SET MAINS FAIL BATTERY FAIL SYSTEM FAULT SHUNT FAULT SHUNT ACTIVE LINE FAULT Not Used VIPER RESET Not Used is Factory default setting	COMMS (P9)	A 5 pin socket that accepts a special communication lead. The lead consists of a 5 pin plug on short cable. The D type connector on the cable is used to plug into a PC serial port. This facilitates local and remote up/down loading of system for engineer programming and fault diagnosis.
		A- B- (P2)	PSTN Line out
		A B (P2)	PSTN Line in
		C+ C- (P10)	These terminals are the RS485 communication bus for the Remote keypads (RKP) and Zone expander Unit (ZEX), wired in parallel. A 120 Ohms resistor must be fitted in the last device on the bus.
		12V (P10)	This 12V supply is protected by a 1A fuse, it can be used to supply the Keypads and Zone Expander Units.

Wiring the system



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

Systematically wire and test each circuit and finish by wiring any internal sounders, external siren (bell) / strobe circuits.

Wiring conventional zones

The panel can accept conventional zone wiring in either closed loop or with double end-of-line resistors. It is possible to mix closed loop zones or double end of line zones with iD Plus zones.

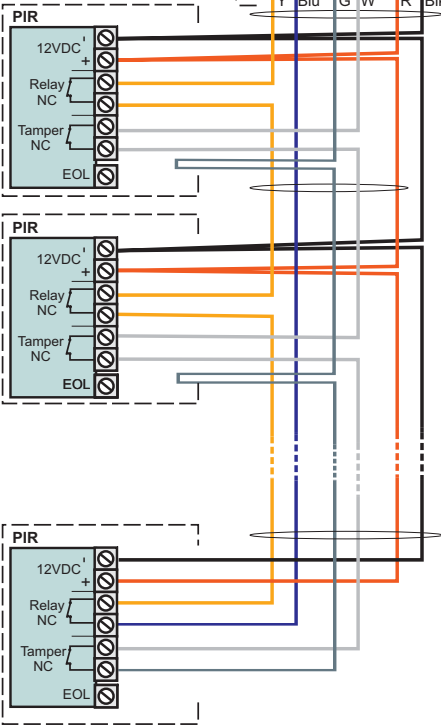
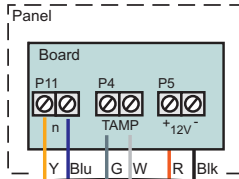


It is not possible to mix closed loop and double end-of-line zone circuits.

Closed loop Zone wiring

- Blk - Black
- R - Red
- Bl - Blue
- Y - Yellow
- G - Green
- W - White

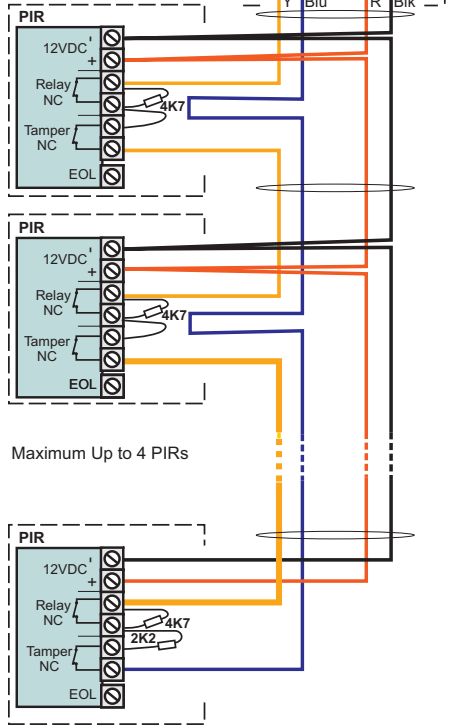
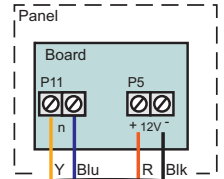
n - Zone 1,2 --- or 8



Double End-Of-Line (DEOL) Zone wiring

- Blk - Black
- R - Red
- Bl - Blue
- Y - Yellow

n - Zone 1,2 --- or 8



Maximum Up to 4 PIRs

Wiring iD Plus Zones

The panel can accept up to 20 devices, each wired with an iD Plus biscuit to communicate with the iD Plus bus. The furthest device can be 400m cable distance away from the panel. All the devices on the iD Plus bus are wired in parallel to the L+ and L- terminals.

Mixing conventional and iD Plus Zones

It is possible to mix conventional zones either closed loop zones or double end-of-line zones with iD Plus zones.



A zone cannot be double occupied. For example, if using iD Plus Zone 1 then it is not possible to have a conventional Zone 1. Equally if a conventional zone is used, then the same numbered iD Plus zone must be left unused.

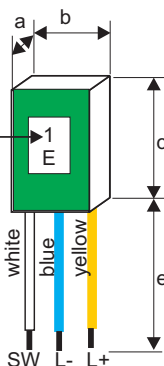
iD Plus biscuit

iD Plus - stands for 'intelligent device' Each iD Plus biscuit has its own internal sensor and an identification number between 1 and 20 for use in this system. The iD Plus biscuit fits inside a detector (such as a PIR, fire or PA), giving individual identification of alarm and tamper.

iD plus biscuit

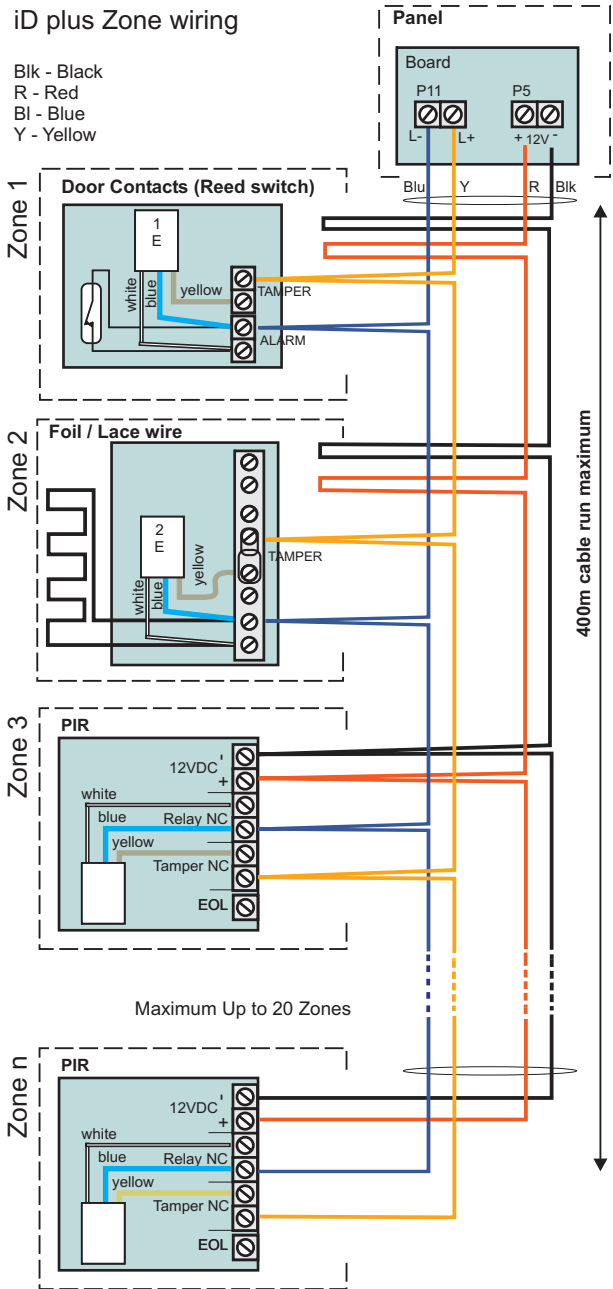
iD plus biscuit number 1

- a - 3.5mm
- b - 12mm
- c - 18mm
- e - 40mm



iD plus Zone wiring

- Blk - Black
- R - Red
- Bl - Blue
- Y - Yellow

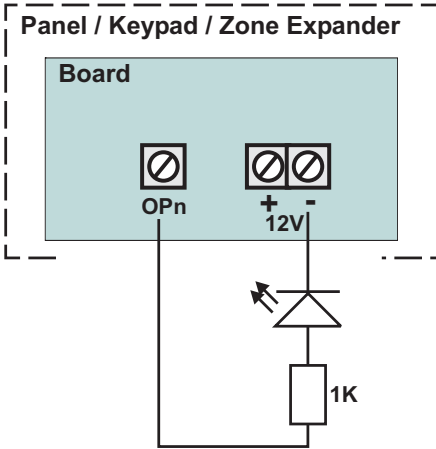


Wiring Outputs

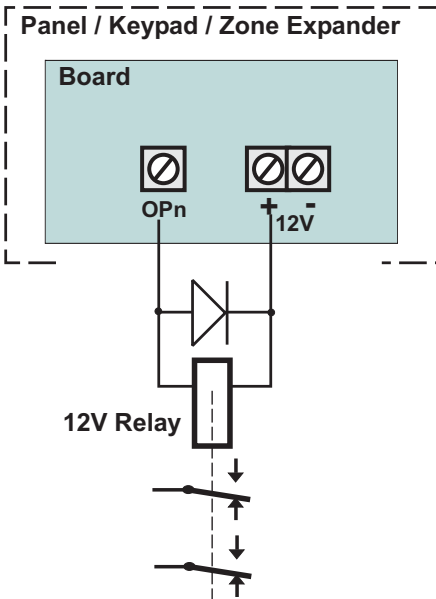
The panel has 10 outputs that can be configured to operate with a condition to provide active low or high output.

OPn - Output 1, 2--- or 18

Output Source (10mA)




Output Sink (30mA)




Remote Keypad (RKP)

The keypad is wired to the RS485 bus of the panel. Each remote keypad must be given an address from a range 1 to 4 along with a name, this is done by the engineer during programming of the system.

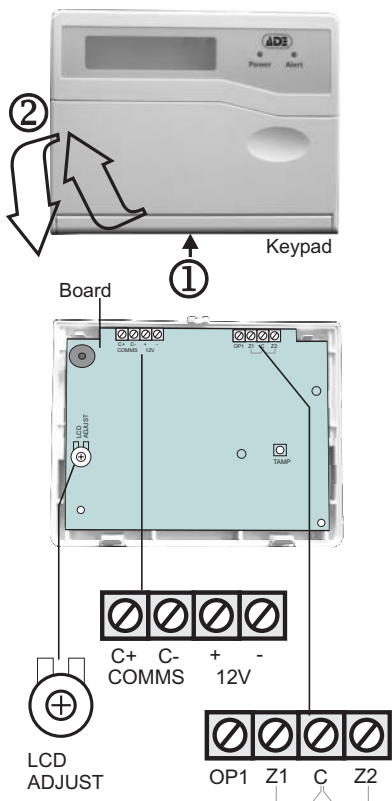


There must always be a Remote keypad 1 (RKP1).

Separate the keypad baseplate from the main assembly by slackening the retaining screw ① and by opening out the main assembly from the bottom edge to dislodge it from the top retaining slots ②.



The PCB board must not be removed from the main assembly.



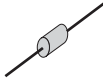
COMMS C+ C-	These are communication data terminals, they must be connected to the same terminals at the panel or previous/next RKP or ZEX..																						
12V + -	These are power supply terminals, they must be connected to the panel.																						
Z1 - C or Z2 - C	These are conventional RKP zone circuits. They can be wired closed loop or double end-of-line circuits. Each zone can be set to: <table style="width: 100%; border: none;"> <tr> <td><i>SECURITY</i></td> <td><i>FIRE</i></td> </tr> <tr> <td><i>AUDIBLE PA</i></td> <td><i>SILENT PA</i></td> </tr> <tr> <td><i>24 HOUR</i></td> <td><i>TERMINATOR</i></td> </tr> <tr> <td><i>SHUNT CONTROL</i></td> <td><i>DOOR BELL</i></td> </tr> </table> SECURITY is the factory default setting. Additionally Z2 terminals can be programmed at the keypad as tamper input for use with Z1, if using Z1 as a closed loop zone.	<i>SECURITY</i>	<i>FIRE</i>	<i>AUDIBLE PA</i>	<i>SILENT PA</i>	<i>24 HOUR</i>	<i>TERMINATOR</i>	<i>SHUNT CONTROL</i>	<i>DOOR BELL</i>														
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<i>AUDIBLE PA</i>	<i>SILENT PA</i>																						
<i>24 HOUR</i>	<i>TERMINATOR</i>																						
<i>SHUNT CONTROL</i>	<i>DOOR BELL</i>																						
LCD ADJUST	This control is used to adjust the contrast of the displayed text.																						
OP1	This is a single output port, typically to drive an external input. The Output Port can be configured for Active High (source 10mA) or Active Low (sink 30mA) level. Also each output is programmable to operate in one of the following conditions: <table style="width: 100%; border: none;"> <tr> <td><i>BELL</i></td> <td><i>STROBE</i></td> </tr> <tr> <td><i>PA</i></td> <td><i>FIRE</i></td> </tr> <tr> <td><i>INTRUDER</i></td> <td><i>TAMPER</i></td> </tr> <tr> <td><i>SET</i></td> <td><i>ALARM</i></td> </tr> <tr> <td><i>ENTRY/EXIT</i></td> <td><i>SET RECEIPT</i></td> </tr> <tr> <td><i>CONFIRMED</i></td> <td><i>DETECTOR ISOLATE</i></td> </tr> <tr> <td><i>WALK TEST</i></td> <td><i>ENGINEERS ACCESS</i></td> </tr> <tr> <td><i>OK FOR SET</i></td> <td><i>MAINS FAIL</i></td> </tr> <tr> <td><i>BATTERY FAIL</i></td> <td><i>SYSTEM FAULT</i></td> </tr> <tr> <td><i>SHUNT FAULT</i></td> <td><i>SHUNT ACTIVE</i></td> </tr> <tr> <td><i>LINE FAULT</i></td> <td><i>Not Used</i></td> </tr> </table> Not Used is the Factory default setting	<i>BELL</i>	<i>STROBE</i>	<i>PA</i>	<i>FIRE</i>	<i>INTRUDER</i>	<i>TAMPER</i>	<i>SET</i>	<i>ALARM</i>	<i>ENTRY/EXIT</i>	<i>SET RECEIPT</i>	<i>CONFIRMED</i>	<i>DETECTOR ISOLATE</i>	<i>WALK TEST</i>	<i>ENGINEERS ACCESS</i>	<i>OK FOR SET</i>	<i>MAINS FAIL</i>	<i>BATTERY FAIL</i>	<i>SYSTEM FAULT</i>	<i>SHUNT FAULT</i>	<i>SHUNT ACTIVE</i>	<i>LINE FAULT</i>	<i>Not Used</i>
<i>BELL</i>	<i>STROBE</i>																						
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<i>ENTRY/EXIT</i>	<i>SET RECEIPT</i>																						
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<i>SHUNT FAULT</i>	<i>SHUNT ACTIVE</i>																						
<i>LINE FAULT</i>	<i>Not Used</i>																						

Terminals

Parts supplied with the keypad

The following parts are supplied with the keypad in a spares pack:

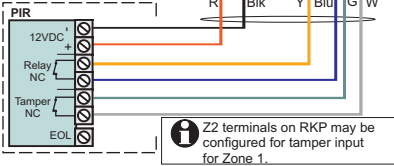
Part	Quantity
Resistor 2K2	2
Resistor 4K7	2
Resistor 120R	1



RKP Zone wiring

Closed loop Zone wiring

Blk - Black
R - Red
Bl - Blue
Y - Yellow
G - Green
W - White

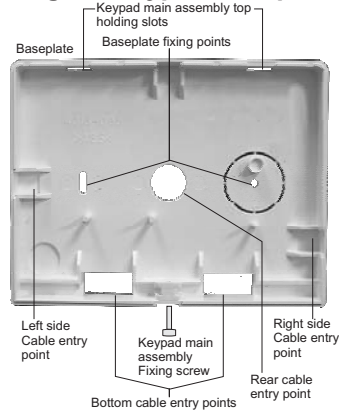


Double End-Of-Line (DEOL) Zone wiring

Blk - Black
R - Red
Bl - Blue
Y - Yellow



Mounting the keypad baseplate



Cut away the required thin wall sections around the edges of the baseplate for cable entry.

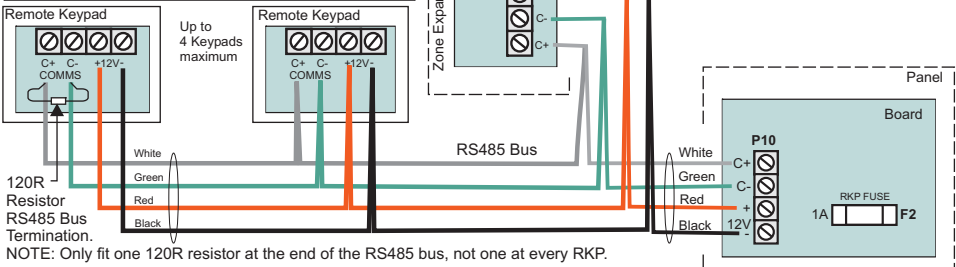
The baseplate may be fitted directly to the wall using suitable fixing. Bring the cables into the baseplate and wire to the terminal block on the keypad main assembly.

Refit the keypad main assembly to the baseplate by locating the top retaining clips into the inside top part of the baseplate. Close the main assembly onto the baseplate, ensuring that the wiring does not foul the tamper switch/spring. Resecure the screw in the bottom of the case.

Once keypad is powered up the local configuration can be changed, see page 18.

Wiring keypads to the panel

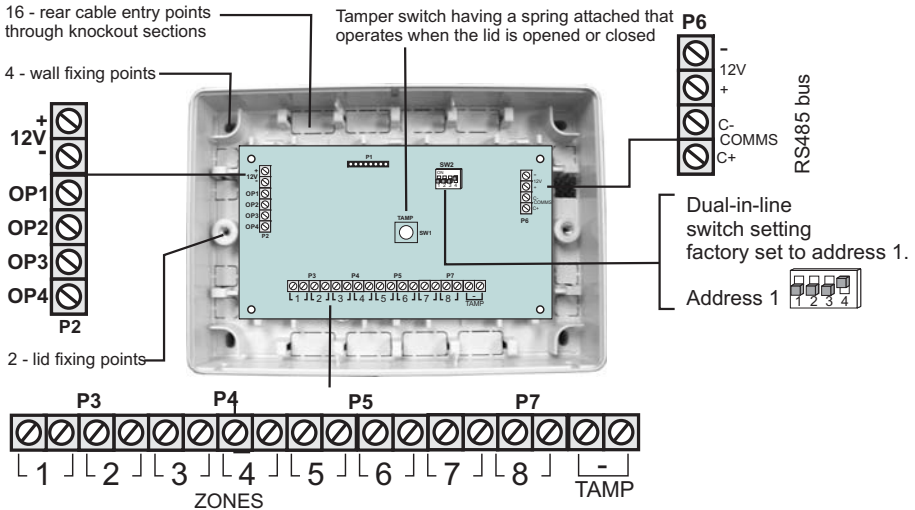
All Remote Keypads are factory configured with address 1. There must always be one RKP 1. If two or more keypads are installed, then additional keypad must each be locally configured with a new address from a range 2 to 4.



NOTE: Only fit one 120R resistor at the end of the RS485 bus, not one at every RKP.

Zone Expander Units (ZEX)

Only 1 Zone Expander Unit can be wired to the RS485 bus to provide 8 conventional zones and 4 outputs. Remove the two retaining screws from the unit and open the lid.

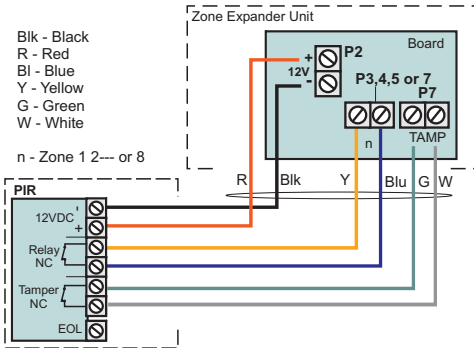


12V + - (P2)	These are power supply terminals they are used to power zones.	OP1 - OP4 (P2)	These are Output ports, typically to drive an external input. An Output port can be configured for Active High (source 10mA) or Active Low (sink 30mA) level.
12V + - (P6)	These are power supply input terminals, they are wired to the panel for supply to the ZEX.		
COMMS C+ C- (P6)	These are communication data terminals, they must be connected to the same terminals at the panel.		
Z1 - Z8 (P3, P4, P5 & P7)	These are conventional zones circuits of the Zone Expander Unit. They can be wired as either closed loop or double end-of-line circuit. Each zone can be set to: <i>SECURITY</i> <i>FIRE</i> <i>AUDIBLE PA</i> <i>SILENT PA</i> <i>24 HOUR</i> <i>TERMINATOR</i> <i>SHUNT CONTROL</i> <i>DOOR BELL</i>		Also each output is programmable to operate in one of the following conditions: <i>BELL</i> <i>STROBE</i> <i>PA</i> <i>FIRE</i> <i>INTRUDER</i> <i>TAMPER</i> <i>SET</i> <i>ALARM</i> <i>ENTRY/EXIT</i> <i>SET RECEIPT</i> <i>CONFIRMED</i> <i>DET ISOLATE</i> <i>WALK TEST</i> <i>ENG'S ACCESS</i> <i>OK FOR SET</i> <i>MAINS FAIL</i> <i>BATTERY FAIL</i> <i>SYSTEM FLT</i> <i>SHUNT FAULT</i> <i>SHUNT ACTIVE</i> <i>LINE FAULT</i> <i>Not Used</i> <i>VIPER RESET</i> Not Used is the Factory default setting

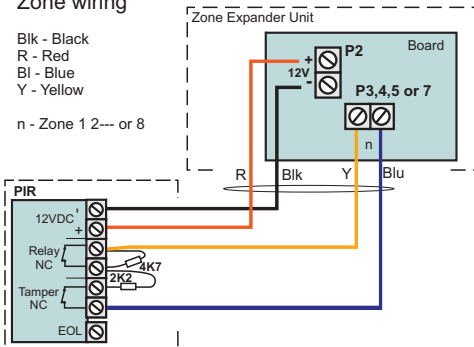
Wiring the ZEX Zones

The ZEX unit has terminals to accept up to 8 conventional zones, the zones can be wired as either closed loop or double end of line circuits.

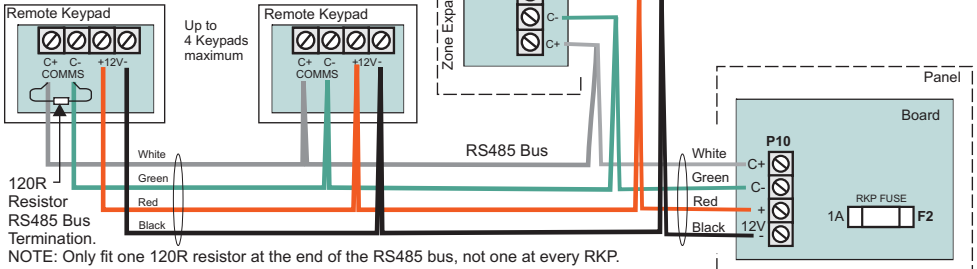
Closed loop Zone wiring



Double End-Of-Line (DEOL) Zone wiring



i All Remote Keypads are factory configured with address 1. There must always be one RKP 1. If two or more keypads are installed, then additional keypad must each be locally configured with a new address from a range 2 to 4.



Wiring Outputs

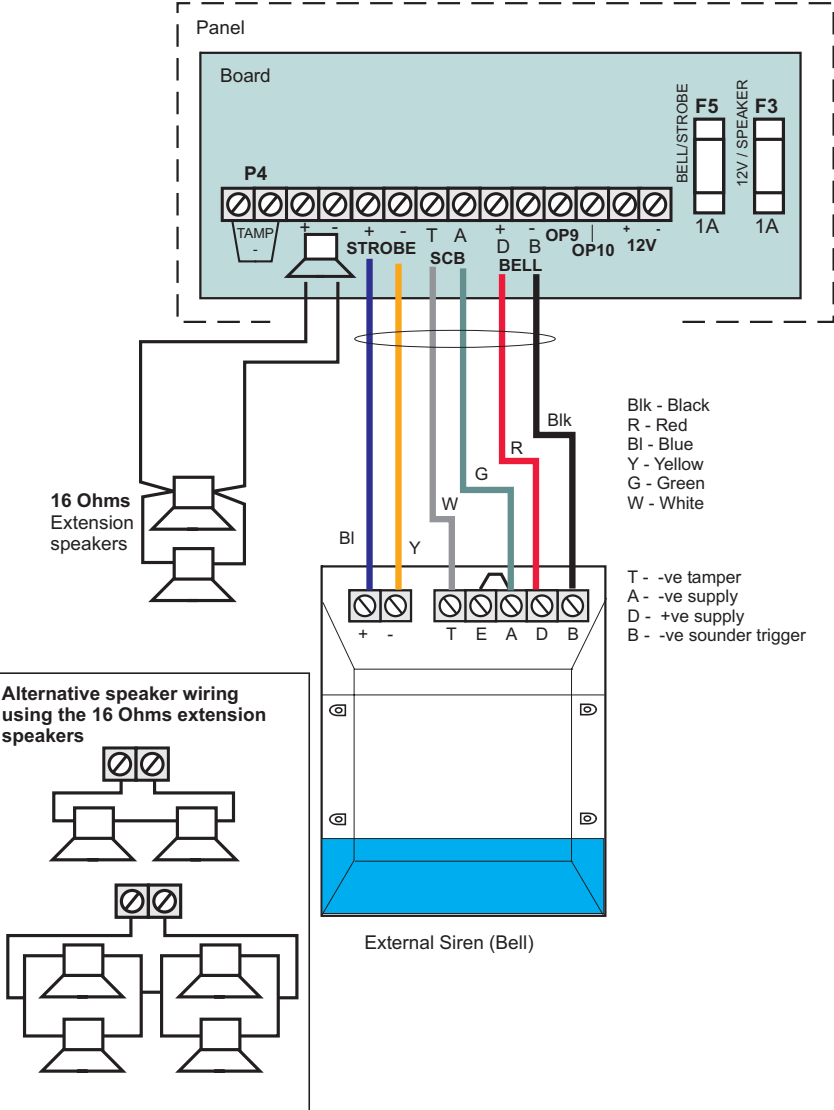
The ZEX has terminals to accept up to 4 outputs that can be configured to operate with a condition to provide active low or high output, see page 10.

External siren and Extension speaker wiring



Do not mix the wiring extension speaker or external siren (bell box) within the same multi-core cable.

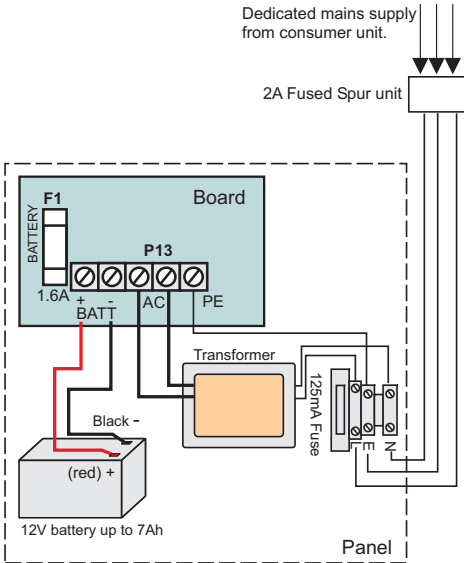
The external siren (bell) is usually installed in a high position from where the siren could be seen and heard. Extension speakers (16 Ohms) may be connected to the speaker terminals to provide high and low volume tones.



Power Up



The mains supply should only be connected by a technically competent person and according to the current IEE wiring regulations.



Power up procedures

- Apply power (mains or battery).
- The system will go in to alarm condition. Key in the Manager code 0123. The keypad display will alternate between two messages, 'POWER UP' and 'Enter Your Code'.
- Key in the Engineer code 9999.
- The keypad will now display a 'Faults: 1' message because the panel tamper is open. Key in the Engineer code 9999.
- The display will now show the Engineers menu:

1) Set system Zones?

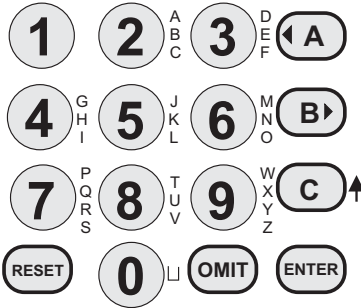
- You now have full access to all the Engineering menus for programming and testing.

Mains connection

The mains power should be connected using a 3 core cable of not less than 0.75mm² between the mains connector block and a fused spur unit mounted external to the panel case.

Using the keypad

The operation and programming of the panel is through routines called menus. There are 7 main menus, each divided down into sub-menus.



Text description

Each zone, user (but not engineer), program and keypad is identified within the system by a fully programmable 12 character text label.

During the programming of these descriptions the numerical keys ① and ② are used to select the number or the letters printed on the right of each key. For example if letter C is required. C is printed as part of ABC on key 2, so press ② until C is showing on the display and then the cursor moves to the next character position, similar to mobile phones.

The ① key is used in the same way for 1 or one of the following characters - , . / . The ② key is used for 0 or space, like on a mobile phone.

Finding and selecting a menu

On entering Engineering, the keypad will automatically display the main menu 1 screen.

Use the ◀ A and B ▶ keys to move up and down the main menus and press the ENTER key to access the menu required.

The keypad will then display the sub-menus attributed to the main menu.

Again using the ◀ A and B ▶ keys to move up and down the sub-menus and press the ENTER key to access the required function.

Item selector

When programming you will often be required to move through lists. This is done by using the ◀ A and B ▶ keys.

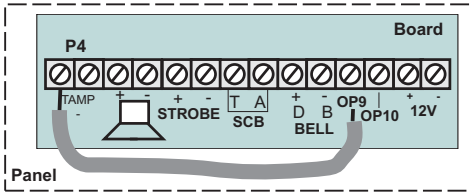
A arrow on the right of the display indicates what is selected for programming.

Clearing the main NVM

The main NVM can be reset back to factory conditions as follows:

Full Clear

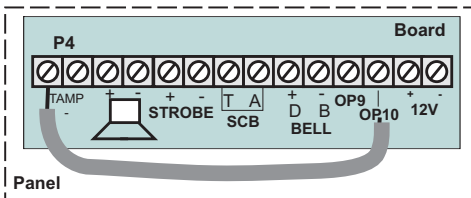
Power down the system and remove all wiring from output port OP9. Remove the wiring or link from the auxiliary tamper circuit (TAMP). Connect a link of wire between OP9 and the left TAMP terminal. This procedure will return programmable parameters to the factory settings.



Power down and remove the link. The original wiring must now be restored before power up.

Code Clear

To clear just the Engineer code to 9999 and Manager code to 0123, and leave the rest of the NVM intact, power down the system and remove all wiring from output port OP10. Remove the wiring or link from the auxiliary tamper circuit (TAMP). Connect a link of wire between OP10 to left TAMP terminal. The system will go into alarm on power up and the codes will be reset.

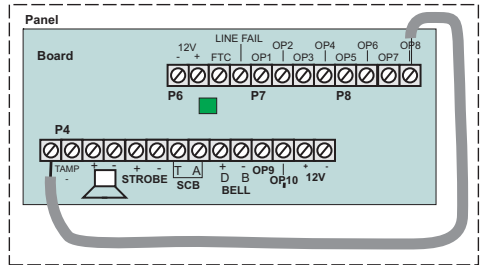


Power down and remove the link. The original wiring must now be restored before power up.

Panel identification reset

It may be necessary to reset the panel identification sent from the UDL. This reset will be required if the configuration file was deleted at the UDL.

Power down the system and remove all wiring from output port OP8. Remove the wiring or link from the auxiliary tamper circuit (TAMP). Connect a link of wire between OP8 to left TAMP terminal. The system will go into alarm on power up and the panel identification will be reset.



Power down and remove the link. The original wiring must now be restored before power up.

Commissioning

Before you begin to programme the system you should decide on the Zones Programming required. You should also have familiarised yourself with the use of the menu's.

The minimum programming required in order for the system to operate is to set up:

- Remote keypad addresses
- Conventional zones and or iD Plus zones
- Configure Zones using Engineering menus 1 and Programs A, B and C using Engineering menus 2.

To exit from the Engineering mode press the **RESET** key repeatedly. This will cause the system to back up through menus.

If any faults are present, the keypad will display a 'Fault' message.

After programming, the system must be fully tested to ensure correct operation.

Access Codes

There can be up to 17 access codes programmed at the panel. The access codes can be either 4 digit or 6 digit in length, see the System information. A 4 digit code can be set to any number from 0000 to 9999. The access codes ensure that only authorised users can operate the system.

Normal User (Codes 2 to 16)

The Normal user codes can be used to Set and Unset the system..

Manager code (Code 1)

The Manager code has the same operation as Normal user and additionally view events, add and change user codes and proximity tags, configure chime zones, set time and date, conduct walk test and test outputs.

Engineer code

The 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.



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

All the codes can be reset to the factory default settings, see page 18.

Engineer Access flag

If the Engineer access Flag is set then the panel will need entry of both engineer and manager codes, see also page 29.

(n) (n) (n) (n) Engineer code

(n) (n) (n) (n) Manager code

You will need to type in the Engineer code followed by the Manager code.
(Both codes must be entered within 60 seconds)

Factory settings

Zones

Zones - Security 1...8 (Zones 9...20 not used)

Attribute of Zones:

- Chime - No
- Reporting - Yes
- Omit Allow - Yes
- Double Knock - No
- Soak - No
- Normally Closed - Yes
- Shunt Group - No

Programs

- Program A Enabled
- Zones used 1...8
- Timed - zone 1
- Time inhibited - zone 2
- Entry time - 30 seconds
- Exit time - 30 seconds
- Timed exit
- Report - Yes
- Program B Disabled
- Program C Disabled

Others

- Bell Time - 15 minutes
- Bell Delay - None
- Re-arm count - 3
- Site Code - 00

System Flags

- Latch Strobe - Yes
- Strobe on Set - No
- Double end-of-line resistors - No
- Fire Bell - Yes
- Anti Code Reset - No
- Engineer Reset - No
- 24 Hour Unset - No
- 6 Digit Code - No
- Engineer Access - No
- PA User Reset - No
- Fire User Reset - No
- Single Key Set - No
- Entry Deviate - Yes
- RKP PA - Yes
- NO RKP on Entry - No

Access codes

- Manager - 0123(00)
- Engineer - 9999 (00)
- (Note: Add 00 at the end if 6 digit code is used)
- Normal user - None

Remote keypad local menu access code - 1234

Telecom Flags

- Modem On - No
- Communicator On - No
- Contact ID - Yes
- Call Back - No
- Aux line Monitor - No
- Report Restores - No
- FTC Monitor - No
- PC Time/Date - No
- PC Unset - No
- PC Report - No

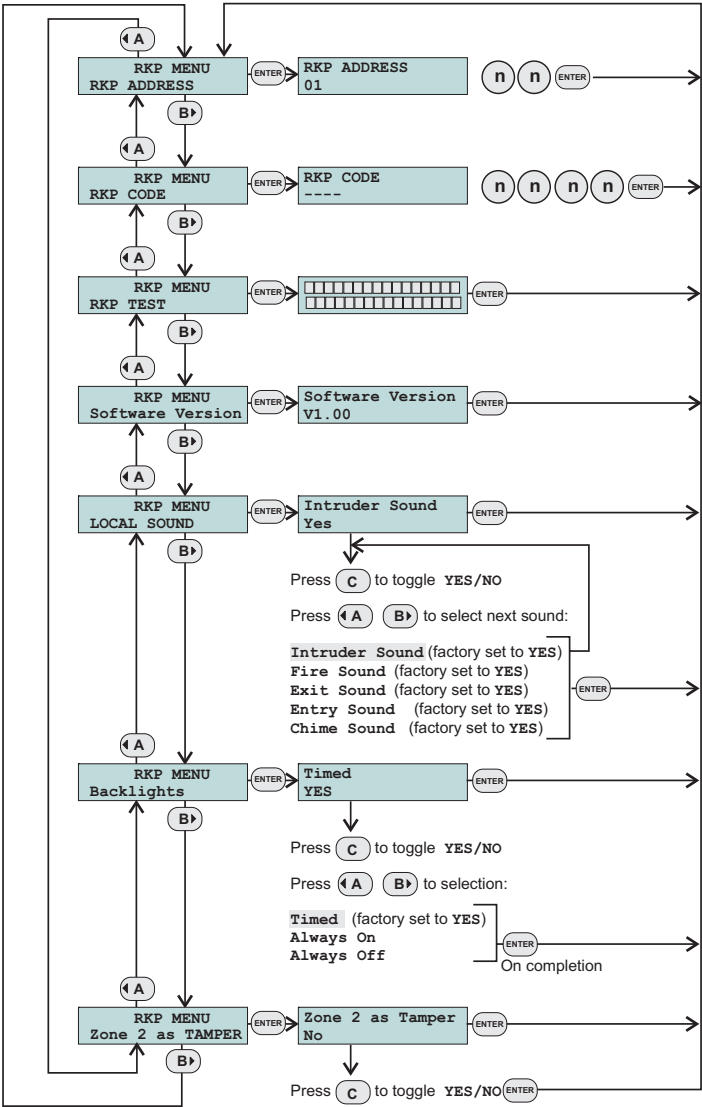
- Ring count - 15
- Call back number - None
- Account number 1 - None
- Account number 2 - None
- Account telephone number 1 - None
- Account telephone number 2 - None
- Outputs - All not used

- Channel 1 - Fire
- Channel 2 - PA
- Channel 3 - Intruder
- Channel 4 - open / closed
- Channel 5 - Tamper
- Channel 6 - Mains fail
- Channel 7 - Detector isolate
- Channel 8 - Confirmed alarm

RKP local menus

To enter RKP menu - press and hold **RESET** Key for 5 seconds.

Enter your code ENTER RKP CODE type in the RKP code 1 2 3 4



The Remote keypad has a local menu to allow individual keypad setting to be changed and permit local tests. The RKP local menu allow changes to:

- RKP address
- RKP local code
- Display test
- RKP software version
- RKP sounds setting
- Backlight operation
- Configuration of Zone 2 circuit to be used as closed loop tamper.

If the RKP code to the RKP menus is not known then you can reset the RKP code to factory setting.

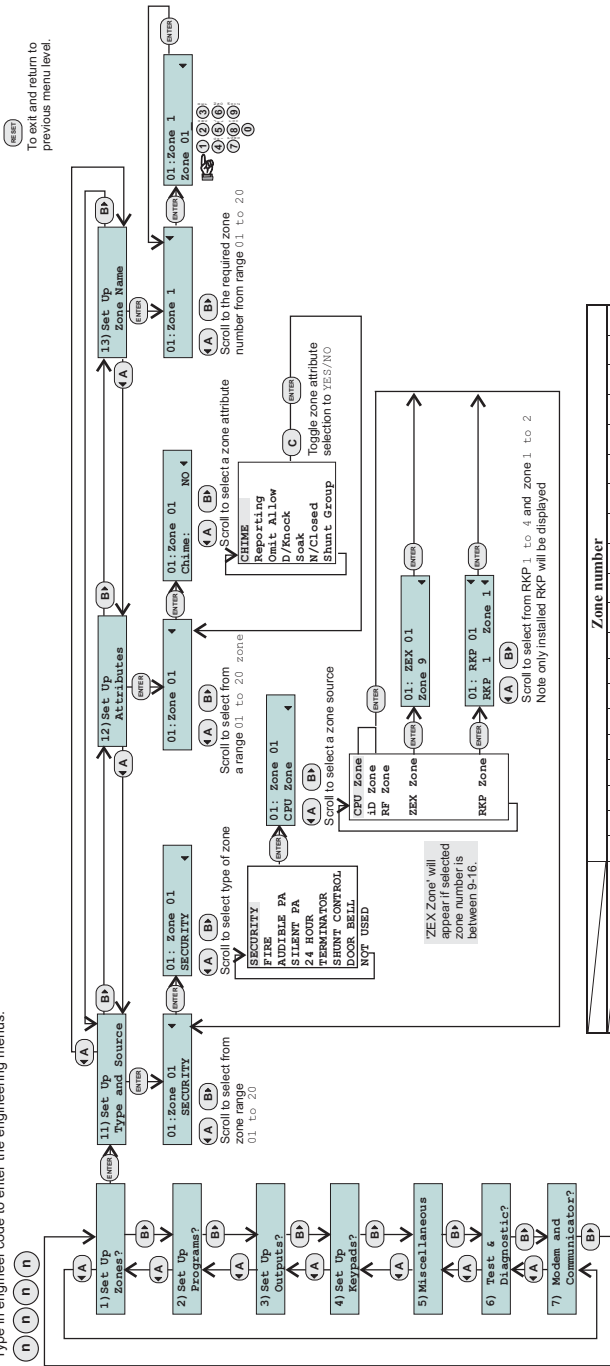
To reset the RKP code to factory setting:

To leave the menu press **RESET**

Press **PA** while powering up the keypad.

Engineering Menu 1 - Zone sup

Type in engineer code to enter the engineering menus:



		Zone number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CPU zone	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
ID zone	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Expander (ZEX) zone	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
RKP zone	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

A - allowed
Only one selection allowed per column.

Zone Source and Type

The system can have up to 20 zones sourced from the Panel (CPU), iD Plus bus, Zone Expander (ZEX) or Remote keypad (RKP), see table on previous page.

- Security Zones:** The majority of the zones in a typical system will be security zones, which are active only when the system has been set. A security zone can be made to function as a final exit zone, an entry/exit inhibited zone or an immediate zone. The function of a security zone is determined by the program which is used to set the system, see Eng. Menu 2. Security zones may be omitted by the user when the system is set if the *Allow omit* attribute has been set.
- Fire Zones:** For the connection of smoke and heat sensors with a relay output. Fire zones cause both inside sounders and, optionally, outside bell (pulsed 2s on, 2s off) without bell delay.
- PA Zone (silent and audible):** A silent PA will only trigger the PA channel of the communicator. An audible PA also sounds the inside sounder and outside bell (without bell delay).
- 24 Hour:** These zones are typically used for perimeter protection (vibration sensors, window foil, etc.). When activated in Set mode they cause the inside sounders to operate. When activated during the set period they cause a full alarm and trigger the Intruder channel of the communicator. Note that 24 Hour zones cause immediate bells (no bell delay). 24 Hour zones may be omitted during the unset period by use of the manager code provided that the *allow omit* attribute has been set. Omitted 24 Hour zones are automatically re-instated when the system is set.
- Terminator:** A zone can be wired to a push button which is fixed outside of the exit route, and programmed to operate as a Terminator zone. Pressing the button during the exit period, activating the zone, will cause the system to set provided that there are no exit faults.
- Shunt Control:** A Shunt Control zone is used to perform an intelligent shunt on a group of zones so that they can be disabled or enabled by means of a keyswitch.
- Door Bell:** Produces a distinct Big Ben chime sound. Although intended for use as a door bell this could be used for other signalling applications.

Zone Attributes

- Chime:** The chime attribute can be applied to any Security zone by the manager. When a chime zone is activated the system will produce a short tone on the inside sounder, and all of the keypads will display the number of the zone which has just opened. This feature is useful on shop doors to warn of a customer entering the shop, and on the back door of domestic installations to warn of a possible intrusion whilst the premises are occupied.
- Reporting:** When zone reporting is set to Yes an intruder alarm in any set Zone will be reported (communicated).
- Allow Omit:** The omit allow attribute can be applied to Security and 24 Hour zones. When this attribute is set on a Security zone the zone can be omitted by any user when the system is set. 24 Hour zones can only be omitted in Set mode by use of the manager code.
- Double Knock:** The double knock attribute can only be applied to Security zones. When this attribute is set the zone must be violated twice before an alarm is generated.



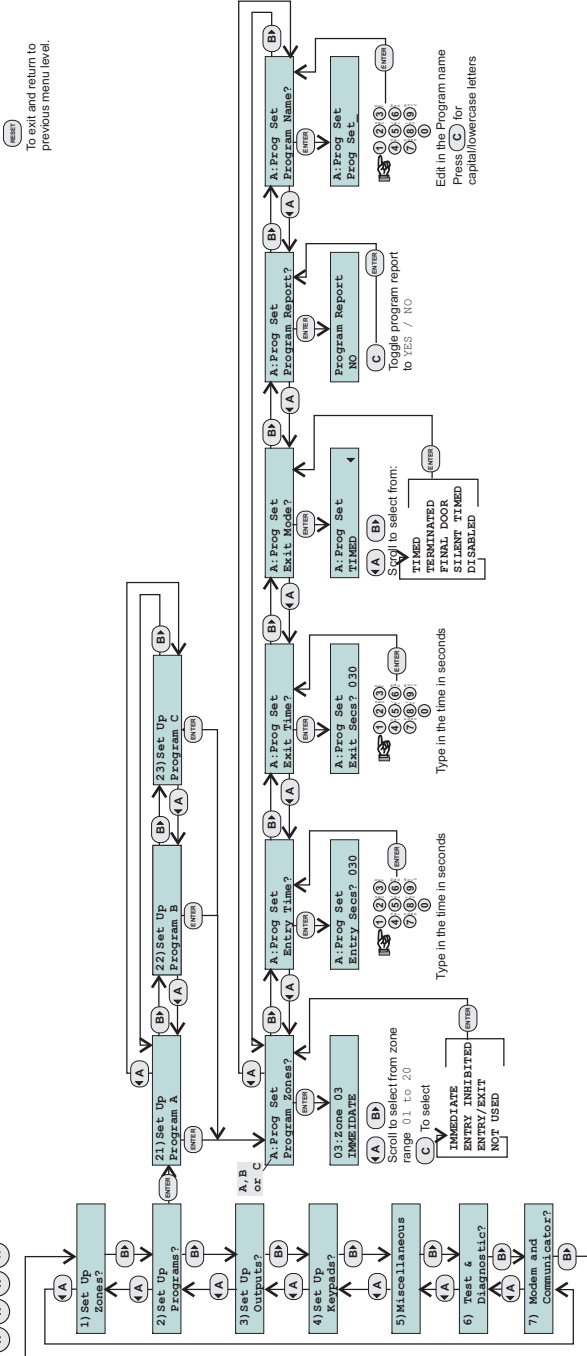
Double knock should not be applied to door contacts.

- Soak:** Security and 24 Hour zones may be placed on soak test. Normal operation of that zone will be inhibited and any activation of the zone which would normally have caused an alarm will cause a zone event to be logged. A tamper condition will cause both a *zone test* event and a zone tamper event to be logged.
- Normally closed:** By default all zones are assumed to be normally closed, such that they generate an alarm condition when they are opened.
- Shunt Group:** The shunt group attribute can be applied to Security and 24 Hour zones. When the Control zone is activated all zones which have this attribute will be disabled.

Engineering Menu 2 - Program set up

Type in engineer code to enter the engineering menus:

- (A)
- (B)
- (C)
- (N)
- (P)
- (R)



(B) To exit and return to previous menu level.

Edit in the Program name Press (A) for Capital/uppercase letters

Type in the time in seconds

Type in the time in seconds

Type in the time in seconds

Type in the time in seconds

Program zones

- Immediate:** These zones are not part of the entry or exit route. They will cause a full alarm condition once the system has set. During the entry period the operation of an immediate zone depends on the setting of the Entry Deviate flag. If entry deviate is allowed then activating an immediate zone during the entry period will cause the inside sounder to produce an alarm sound and the entry timer will be reloaded with the original entry time. If entry deviate is not allowed then activating an immediate zone will cause immediate full alarm (subject to bell delay).
- Entry inhibited:** These zones are normally in the route between the entry/exit door and the keypad. During the entry or exit period these zones are inhibited and can not cause an alarm. They become fully active once the system has been set.
- Entry Exit:** Usually a magnetic contact on the main entry/exit door is programmed as a final exit zone. During the exit period this zone may be opened without causing an alarm. When the system has been set opening this zone will cause the entry period to start. When used with a final door set program closing the final exit zone will cause the system to set.

Entry time

Each program has its own entry time. By default this is 30 seconds, but it can be changed to any value in the range 0 to 999 seconds.

Exit time

Each program has its own exit time. By default this is 30 seconds, but it can be changed to any value in the range 0 to 999 seconds

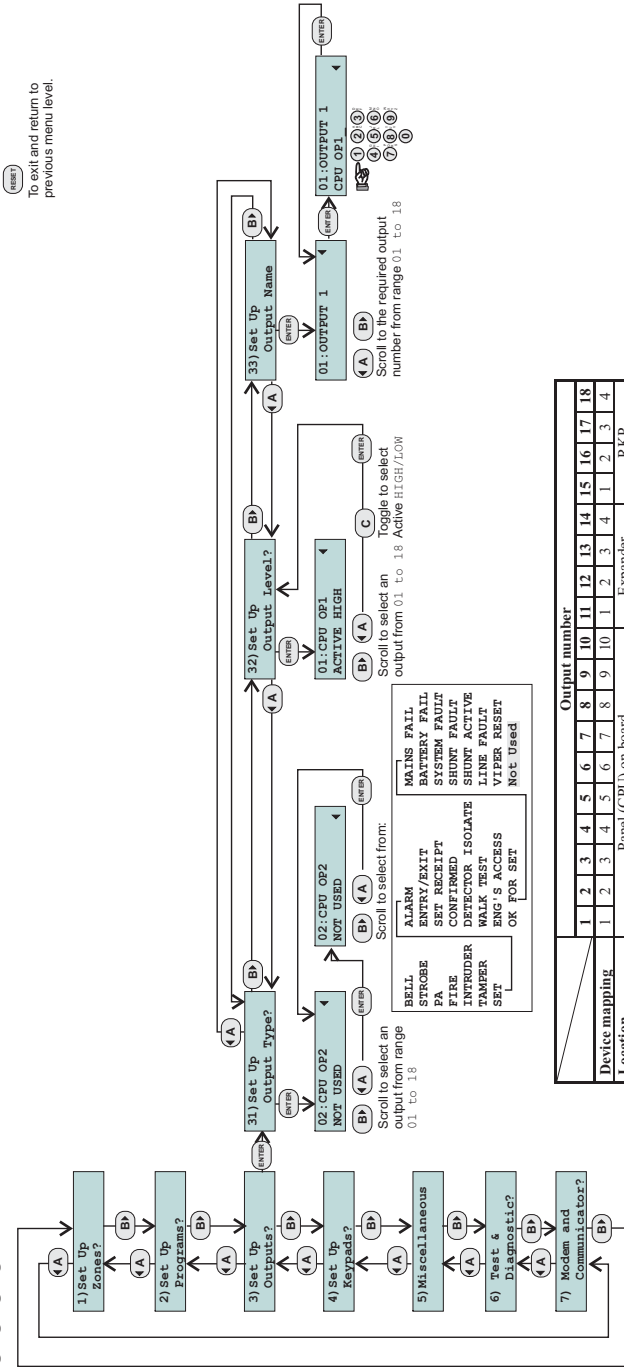
Exit mode

- Timed:** The system will set when the exit time has expired. However, each time that a zone is activated the exit timer will be stopped; it will be restarted when the zone closes. This means that the system will not set until all of the zones in the program are clear.
- Terminated:** The system will only set when a Terminator zone has been activated and all other zones are clear. Consistent with certain police force policies there is no time limit on this. If the Terminator button is not pressed the system will not set. If you want to force the system to set under such circumstances use a timed exit with a long exit time. The Terminator zone can still be used during a timed exit.
- Final Door:** The system will set 5 seconds after a final exit zone (the final door) closes. This 5 second period is to allow detectors on the exit route to clear before the system finally sets. If any zones are active at the end of this period the system will not set. There is no time limit on this.
- Silent timed:** The system will set as if a Timed exit had been selected, however the exit sounder will be silent during the exit period. Using the 'Sound' control feature of the remote keypad, each keypad may have their sound profile customised.
- Program reporting:** Normally, when the system has been set using a program, a violation of a security zone contained in that program will cause the system to report (i.e. communicate) to the central station if reporting is set to 'Yes'.

Engineering Menu 3 - Output set up

Type in engineer code to enter the engineering menus:

0 0 0 0 0



	Output number																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Device mapping	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Location	1	2	3	4	5	6	7	8	9	10	1	2	3	4	1	2	3	4
Outputs	Panel (CPU) on board																	
Outputs	CPU OPn (n=1...10)																	
Outputs	ZEX OPn (n=1...4)																	
Outputs	RKP 1 OP																	
Outputs	RKP 2 OP																	
Outputs	RKP 3 OP																	
Outputs	RKP 4 OP																	

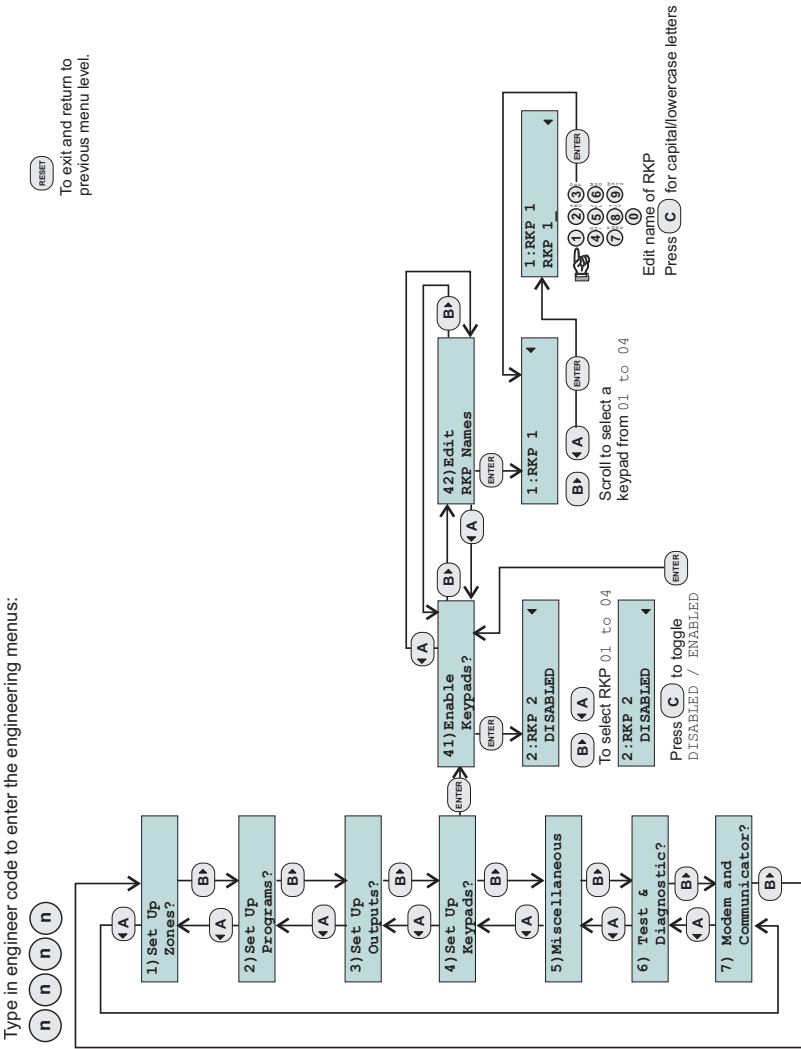
Output Type

The system can have up to 18 outputs from the Panel (CPU), Zone Expander and Remote keypads, see output mapping on previous page. Each output can be set to be active low or high level.

- Bell** - Active when bell (external siren) are sounding.
- Strobe** - Active when external strobe is On.
- PA** - Active during a PA alarm.
- Fire** - Active during a Fire alarm.
- Intruder** - Active during an Intruder alarm.
- Tamper** - Active when there is a system tamper.
- Set** - Active when the system is set.
- Alarm** - Active during a PA, Fire or Intruder alarm. This output is normally used to trigger a single channel communicator.
- Entry/Exit** - Active during the entry and exit periods.
- Set Receipt** - Active for 5 seconds after setting completes.
- Confirmed** - Active to confirm an Intruder alarm.
- Detector isolate** - Active when a detector is isolated at re-arm.
- Walk Test** - Active during walktest mode.
- Engineers Access** - Active while engineer menu is in use.
- OK for Set** - Active during the exit period when there are no faults.
- Mains fail** - Active when there is a mains supply failure.
- Battery fail** - Active when there is battery failure.
- Shunt fault** - Active when a group shunt has been removed but the group could not be re-enabled due to a fault.
- Shunt Active** - Active when shunt group is in operation.
- Line fault** - Active when modem detects a line fault.
- Viper Reset** - Active when panel is set and Off when panel is unset.
- Not used** -Output port is not used

Engineering Menu 4 - RKP set up

There can be up to 4 remote keypads installed in the system and each one can be individually enabled/disabled and given a label to identify the location of installation.



System flags

- Latch Strobe** - When this flag is set the strobe remains on after an alarm.
- Strobe on Set** - When this flag is set the strobe operates for a few seconds on completion of setting.
- DEOL Resistors** - When this flag is set all the conventional zones will operate double end-of-line.
- Fire Bell** - When this flag is set a Fire alarm condition will cause the outside bells / siren to be pulsed on/off at 2 second intervals. When this flag is clear a Fire alarm condition will not operate the outside bell / siren.
- Anti Code Reset** - When this flag is set the remote reset anti-code facility is enabled.
- Engineer Reset** -When this flag is set the panel will require an engineer reset after Fire, PA or Tamper condition.
- 24 hour unset** - When this flag is set the 24 hour zone will report when the system is unset.
- 6 digit Codes** - When this flag is set the system will operate with 6 digit codes and when the flag is unset it operates with 4 digit codes.
- Engineers Access** - When this flag is set the manager code must be entered after the engineer code before the menu can be used.
- PA User Reset** - When this flag is set the panel can be reset after a PA alarm by a user code even if all other alarms require an engineer reset. When this flag is clear the requirement for an engineer or user reset after a PA alarm is determined by the engineer reset flag.
- Fire User Reset** - When this flag is set the panel can be reset after a Fire alarm by a user code.
- Single key Set** - not applicable
- Entry Deviate** - When this flag is set the panel will permit an entry route deviation; activating an immediate point during the entry period will cause an alarm sound from the internal sounder.
- RKP PA** - When this flag is set it enables the PA buttons on the RKPs.
- No RKP on Entry** -When this flag is set the keypad will not accept and entry code to unset a set system. The system must be unset using a proximity tag (keyfob)

Timers

- Bell delay** : The time that the outside bell or sounder will be delayed by before they operate.
- Bell time** : The time that the outside bell or sounder will operate in alarm.
- Confirm time** : The confirmed alarm report works in the following way. In the event of an intrusion the first detector to be activated, or an entry timeout, will operate the Intruder alarm output to the communicator. If a second detector is activated during the confirm alarm period the confirmed alarm output to the communicator will be operated.

Site Code

The control panel has a 2 digit site code which can be programmed by the engineer on installation. The central station operator must know the site code in order to generate the correct anti-code.

Re-arm

This counter determines the number of times that the system will re-arm after an alarm. A re-arm count of 2 will allow the system to re-arm three times, i.e. go into full alarm 3 times.

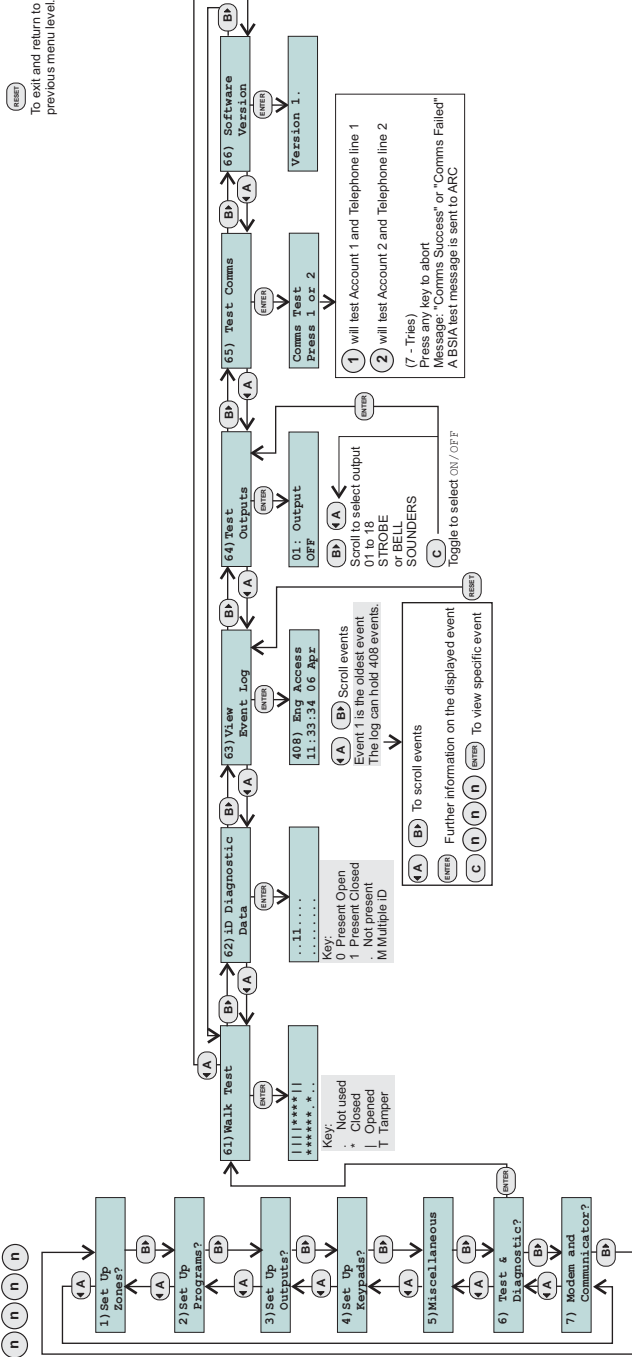
Engineer code

The engineer code can be changed from this menu. Any code of up to 4 (6) digits can be used. If the code is already in use it will be rejected.

Engineering Menu 6 - Diagnostics

EXIT
To exit and return to previous menu level.

Type in engineer code to enter the engineering menus:



Walk Test

The system can be put into a walk test mode. As each zone is opened the inside sounder will produce a tone and the zone will be identified on the keypad display. It is also possible to walktest the tamper on each detector; a different tone is used in this case. The status of zones 1 to 10 is displayed on the top row of the keypad display while zones 11 to 20 appear on the bottom row.

iD Diagnostic data

Select this function to view the raw data from the iD line. The keypad displays the status of each iD Plus zone, even if the zone has not been enabled. The display is updated the instant that any zone changes status. The status of point 1 is displayed at the top left, zone 20 at the bottom right.

Event Log

The event log holds the last 500 events in non-volatile memory. Each event is time and date-stamped to the nearest second. Where appropriate a logged event may carry further information.

Test outputs

The system outputs can be switched on and off to allow each one be tested. A test can be performed on the 18 outputs, strobe or bell sounder

Test communicator

The communicator settings of the two account numbers and telephone numbers to establish communication with a Alarm Receiving Centre (ARC) can be tested. The test consists of the panel sending a BSIA or Contact ID test message to ARC.

Software version

The software version of the panel can be displayed.

Accounts

The Communicator will transmit an Account code to the Alarm Receiving Centre (ARC) with each alarm message. The communicator can use one of 2 telephone numbers, each number may have a different Account Code. The Account code can be up to 6 digits long, although most Account codes are 4 digits long.

The Communicator will always transmit to ARC account 1 first, if this fails it will retry 16 seconds later, the process is repeated for up to 7 tries. If another account 2 is set up then the transition will alternate between account 1 and 2 until communication is established.

Telephone numbers

The Communicator will attempt to dial the Alarm Receiving Centre using up to 2 telephone numbers. The telephone numbers can be up to 20 digits long.

Call back telephone number

The Customer File and unique Panel identification number provide the first level of security against unauthorised connection to a panel. The second level is provided by the Call-back function. When Call-back is enabled the panel will not accept the initial incoming connection request from Captiv8-20UDL. Instead it will call back Captiv8-20UDL on a pre programmed telephone numbers, and make the connection as an outgoing call.

Secure Call-back is enabled by setting the Telecom flag "Call-Back" to YES, and programming a Call-back telephone number. For security reasons Secure Call-back cannot be enabled by Captiv8-20 UDL..

Ring Counts

The modem will allow the telephone to ring this number of times before answering an incoming call. This gives the user the chance to answer a telephone call.



Each 'Ring Ring - pause' sequence repeating of an incoming telephone equals 2 ring counts.

Telecom Flags

- Modem On** : Enables the remote upload and download facility provided by the modem. Set this flag to NO to prevent the modem from attempting to answer incoming calls.
- Communicator On**: Enables the digital communicator when set to Yes.
- Contact ID**: Enables the communicator to send alarm signals using the Ademco Contact ID format. When disabled the communicator will send alarm signals using 8 channel fast format (BSIA format).
- Call Back**: When this flag "Call-back" flag is set to Yes, a valid connection request from a remote PC will result in the modem calling back the PC using the call back telephone number.
- Aux Line monitor**: When this flag is set the Auxiliary line fault input will be monitored for faults from external equipment.
- Report set**: When this flag is set the panel will report Open (set) or closed (unset) events.
- Report Restores**: The communicator can be forced to report to the ARC when one of its channels has restored (gone from alarm to clear).
- FTC Monitor**: When this flag is set the Fail to communicate input is monitored for signals from external communication equipment.
- PC Time/Date***: Enables the remote PC to change the time and date of the system.
- PC Unset*** : Enables the remote PC to unset the system.
- PC Reset*** : When this flag is set it enables remote PC reset system.

** cannot be changed by the remote PC.*

Fast format channels

Operating in BSIA 8 channel fast format the on board communicator sends the alarm and status signals on fixed channels. The channel numbers may be redefined.

Note that if you change a channel to one already in use by another signal then the channel numbers will swap. For example, if you change the Fire signal to channel 7 then the Detector isolate will change to channel 1.

Remote PC UDL

The built in Digital Communicator and Modem when operating as a digital communicator it will communicate with most Alarm Receiving Equipment to pass alarm signals to an Alarm Receiving Centre (a Central Station). Operating as a Modem the it will communicate with most standard computer modems to permit remote programming and control of the Captiv8-20 control panel from a Personal Computer.

ADE recommend that the Digital Communicator and Modem should be connected to an ex-directory standard PSTN telephone line, and that no other telephone apparatus should be connected to the same line. This is especially important when operating as a digital communicator for the transmission of alarm signals.

Connection to the Telephone

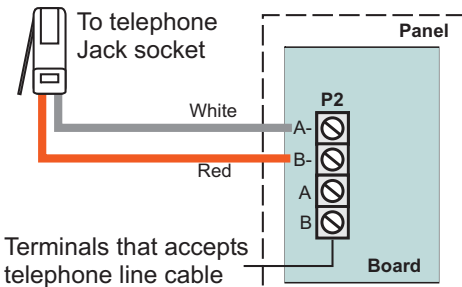
Network

The panel may be connected to the telephone network by either of these two methods:

- a. Using the supplied telephone lead with plug, connect into a standard BT jack socket, see *Using the Supplied Telephone Lead*.
- b. Using direct connection to a BT master jack socket using special telephone cable, see *PSTN connection*.

Using the telephone lead

A 1.5m telephone lead with plug is supplied for convenient connection to a standard BT jack socket. This lead must be wired to the terminals on the panel PCB in the following way:



Terminals that accepts telephone line cable

PSTN Connection

The Digital Communicator and Modem must be connected to the British Telecom (BT) telephone line by an approved installer. Connection should be made to a NTE5 master socket.

The cable used to connect the Digital Communicator and Modem to the master socket must conform to BT specification CW1308.

At the master socket identify the terminals A and B. This can be done either by reference to the terminal numbers on the NTE5 socket, or by the OFTEL wiring code.

Terminal	Number	Wire Colour
A	5	white with blue rings
B	2	blue with white rings

Connect one end of the telephone cable to the Digital Communicator and Modem terminals labelled A and B. The telephone cable should be routed clear of all other cables inside the control panel.

Connect the other end of the telephone cable to the NTE5 master socket.

PABX Connection

The Digital Communicator and Modem will operate on most PABX systems. The person responsible for connection of the Digital Communicator and Modem to a PABX system is as follows:

If the wiring is owned by BT, then BT.

If the wiring is not owned by BT then either:

- (i) BT,
- (ii) the authorised maintainer, or
- (iii) a professional installer after 14 days written notice to the authorised maintainer.

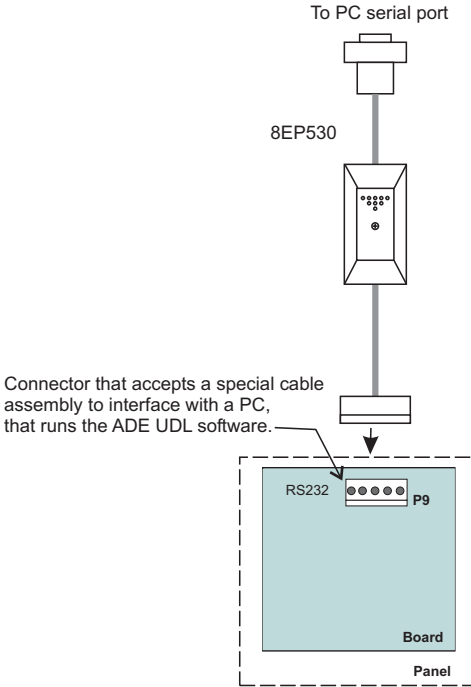
When used on a PABX system the Digital Communicator and Modem may need access an "outside line" before attempting to dial any telephone number. In this case all telephone numbers programmed into the host control panel should be prefixed with the "outside line" code of the PABX. This is usually "9".

The system is not suitable for connection as an extension to a payphone or 1 + 1 carrier system

Upload Download UDL software

The UDL is a PC/Windows based software package available from ADE. Designed for use by installation engineers, it gives local or remote access to the UDL features of the control panel

A lead is available to make direct RS232 connection to a PC communication port for local access.



Using the built-in modem and telephone line the UDL will work with most Hayes compatible PC modems, including those designed for use with mobile phones.

The UDL software permits most time consuming tasks to be carried out off-line, such as programming a control panel or printing the event log.

Customer File

The UDL allows the programming details of each Captiv8-20 panel to be stored to the PC's hard disk in a "Customer File". It also stores details about the Customer, address, and telephone number of the panel into this file.

Panel Identification

Each panel has a unique panel identification (PID) which UDL must also know in order to connect to it. The PID of a panel to which a connection has never been made is always zero. The first time that UDL attempts a connection to such a panel a unique PID will be generated automatically and stored in both the panels NVM and the Customer File used by UDL. Thereafter, UDL must use this Customer File to connect to the panel.

If an installer wished to be able to connect to the same panel from 2 or more computers then a copy of the Customer File must be placed on each computer.

If the Customer File is lost, or becomes corrupt, then UDL can still be made to connect to a panel. First, the PID held in the panel must be reset, see page 18.

Secure Call Back

The Customer File and unique PID provide the first level of security against unauthorised connection to a panel. The second level is provided by the Call-back function. When Call-back is enabled the panel will not accept the initial incoming connection request from UDL. Instead it will call back UDL on a preprogrammed telephone number, and make the connection as an outgoing call.

Secure Call-back is enabled by setting the modem flag "Call-Back" to YES and programming a Call-back telephone number. For security reasons Secure Call-back cannot be enabled by UDL

UDL Restrictions

The panel can not accept a connection request from UDL under the following circumstances:

- when the telephone line is in use for any reason.
- when the panel is in engineer mode.
- when the digital communicator is communicating an alarm.

Certain operations are only available when the panel is in Day mode (unset). The panel can not be re-programmed when it is set. The UDL can be used to unset a panel, reprogram it, and then set it again.

Remote control

Using UDL the engineer can carry out many of the routine tasks normally only available by a site visit. For security reasons most remote control functions can be disabled at the control panel and cannot be re-enabled by UDL.

Panel - technical data

Standard	EN 50131-1 Security grade 2 Environmental class II DD243 PD6662	Output	10 normally active low outputs, can be configured for active high (sink 30mA and source 10mA)
Dimension	H 230mm W 290mm D 80mm	Communication bus	RS485 bus for RKP and ZEX
Weight	1.572Kg with carton and spares, less battery.	Communicator formats	BSIA 8 Channel Fast format, compatible with Scancom Fast Format receiver. Ademco Contact ID, compatible with Ademco 685 receivers
Enclosure	Polycarbonate	Modem standard	V22 (1200 baud) automatic rate negotiation, and is compatible with most modem
Operating Temperature	-10 to 40°C	BT Ringer Equivalence number (REN)	REN = 1
Power supply	Type A (EN50131-6)		
Voltage supply	10.5 - 14V		
Output ripple	690Vpp (max)		
Current	1A (max)		
Mains Voltage	230V ac +10% -15% 50Hz		
Charge Voltage	13.8V dc (+/-5%)		
Battery	12V sealed lead acid 7Ah capacity		
end voltage	10.8V		
standby period	15 hours for a 450mA continuous current		
Fuses			
F1 - battery	1.6A 20mm Quick blow		
F2 - RKP	1A 20mm Quick blow		
F3 - 12V/Speaker	1A 20mm Quick blow		
F5 - Bell/Strobe	1A 20mm Quick blow		
Mains	125mA 250V type T (anti-surge)		
Extension speaker	16 ohms		
LED indicators	Power (red)		
iD Plus bus	20 iD Plus Zones		
Zone circuits	8 conventional double end-of-line zones, that uses 2K2 and 4K7 resistors or closed loop zones		

RKP - technical data

Standard	EN 50131-1 Security grade 2 Environmental class II
Power supply	10.5 - 14V
Current	
Full alarm	95mA
Standby with no backlight	30mA
Backlight	45mA
Weight	215g
LED indicators	Power (green), Alert (Red)
LCD	2 lines 16 Characters per line green Liquid Crystal Display (LCD) with backlight
Keypad (backlit)	Mobile phone style keypad with Part set and PA keys
Entry code	4 digit PIN code (Default: 1234)
Zone circuits	Two conventional double end of line zones, that uses 2K2 and 4K7 resistors, or two closed loop zones (Zone 2 may be configured as tamper for Zone 1).
Output	Normally active low can be configured for active high (sink 30mA and source 10mA)
Personal Attack	Dual push button to meet ACPO requirements
Communication	RS485 bus
Keypad dimensions	H 105mm W135mm D 27.5mm

ZEX - technical data

Standard	EN 50131-1 Security grade 2 Environmental class II
Power supply	10.5 - 14V
Current	23mA
Weight	372g 422g with carton
Zone circuits	8 - conventional double end of line zones, that uses 2K2 and 4K7 resistors.
Output	4 - Normally active low output can be configured for active high (sink 30mA and source 10mA)
Communication	RS485 bus
Dimensions	H 130mm W188mm D 48mm

Events

EVENT	Description
24 HOUR ALM	Logged when a 24 hour zone has operated.
AUX FTC	Logged when a <i>Fail to communicate</i> signal is received from <i>Auxiliary communication equipment</i>
AntiC RESET	Logged when the system is reset by means of an anti-code.
AUX FUSE FAIL	Logged when the 12V SPEAKER fuse has failed.
AUX FUSE OK	Logged when the 12V SPEAKER fuse is replaced after a failure.
BATTERY FAIL	Logged when the on-load battery voltage falls below 10.8V.
BATTERY OK	Logged when the battery voltage has risen above 11.4V following a battery failure.
BELL FUSE FAIL	Logged when the BELL/STROBE fused has failed.
BELL FUSE OK	Logged when the BELL/STROBE fuse is replaced after a failure.
BOX TAMPER	Logged when the general tamper loop or box tamper has opened.
BOX TAMPR OK	Logged when the general tamper loop or box tamper has closed.
CLEAR LOG	Logged when NVM fault log is reset.
CODE ENTRY	Logged when a valid code is entered by USER n.
CODE TAMPER	This is logged in either Day or Set modes when more than 5 unsuccessful attempts at entering a code have been made.
ENG ACCESS	Logged when the Engineer menu is used.
ENG FINISH	Logged when the Engineer menu is exited.
ENG'R RESET	Logged when the system is reset by an Engineer code.
ENTRY DEVIAT	Logged during the entry period when an Immediate zone is activated.
ENTRY START	Logged in the set period when an entry/exit zone is opened which causes the entry period to start.
FIRE ZONE	Logged when a Fire zone is activated. Includes the zone number.
iD LINE OK	Logged when iD short circuit is removed.
iD SHORT	Logged when excessive current flows in the iD line indicating a short circuit across the lines.
INTRUDER	Logged when a Security or 24 Hour zone is activated. Includes the zone number.
LOCAL LG OFF	Logged when the local PC connection has ended.
LOCAL LOG ON	Logged when the local PC successfully connects to the panel.

Engineering information

MAINS FAILED	Logged when there is a mains supply failure to the panel.
MAINS OK	Logged after a previous MAINS FAILED when the mains power has been restored.
NEW TIME/DATE	Logged when either the time or date is changed, it records the time and date after the change.
NVM INIT	Logged when the engineer forces the NVM to be re-initialised.
OLD TIME/DATE	Logged when either the time or date is changed, it records the time and date before the change. This event is always followed by NEW TIME/DATE.
PA	Logged when either a Silent or Audible PA or PA zone is activated. Includes the zone number.
PC LOG OFF	Logged when the remote PC Logs off from the system.
PC LOG ON	Logged when the remote PC logs on (connects) to the system.
PC PRG ABORT	Logged when the remote PC aborts the download.
PC PRG START	Logged when the remote PC starts a download of the programming data.
PC PROG DONE	Logged when the remote PC successfully downloads a new system setup.
PC RESET	Logged when the system is reset by the remote PC.
POWER UP	Logged after a system power up.
PROX TAG	Logged when a tag is used, USER n.
PUSH TO SET	Logged when a Push to Set zone is used to complete setting procedure.
RKP FAILED	Logged when an RKP fails to respond to the control panel. This may be caused by a bad connection on the C+ and C- lines, or the wrong address set in the RKP. Includes the RKP number.
RKP OK	Logged when failed RKP comes back on line.
RKP PA	Logged when RKP x PA buttons are operated.
RKP TAMPER	Logged when RKP case tamper has closed.
RKP TAMPER	Logged when the tamper switch in the RKP is opened. Includes the RKP number.
RKP TAMPER OK	Logged when RKP case tamper has opened.
SET BY	This event is logged when the system is set. It identifies the user who set the system.
SILENT PA	This event is logged when a silent PA has operated.
SOAK CLOSE	This event is logged when soak zone has closed.
SOAK OPEN	This event is logged when soak zone has opened.

START UP	Logged when the system event handler has started following power up.
SYSTEM REARM	Logged when system is re-armed after a bell timeout.
SYSTEM UNSET	Logged when the system has been unset by a user.
TEL FAULT	This event is logged when there is a phone line fault.
TEL LINE OK	This event is logged when there is a phone line recovery after a failure.
USER RESET	Logged when the system is reset by a user code.
ZEX FAILED	Logged when the zone expander communication has failed.
ZEX OK	Logged when the zone expander communication has recovered.
ZEX TAMPER	Logged when the zone expander case tamper has operated.
ZEX TAMPR OK	Logged when the zone expander case tamper has closed.
ZONE EXCLUDED	Logged when the system has excluded a zone at re-arm.
ZONE OMITTED	Logged when the user omits a zone during setting the system.
ZONE TAMPER	Logged when the zone tamper has operated.

System Parts

Panel, Remote keypad (RKP) and Zone Expander (ZEX)

Captiv8-20	8EP500
Captiv8-20 LCD RKP	8EP510
Captiv8-20 LCD/PROX RKP	8EP515
Captiv8 8-20 ZONE EXP	8EP525

Activ8 Detection Range

Activ8 PIR	8IR100
Activ8 QP	8IR105
Activ8 DT	8IR110
Activ8 PIR/BG	8IR115
Activ8 PIR/BW CAM	8IR120
Activ8 PIR/CLR CAM	8IR125
Activ8 CRT	8IR130
Activ8 360	8IR135
Activ8 AM/DT	8IR140
Activ8 White light lense	8IR145
Activ8 Uni-Bracket	8IR150

Accessory Range



Non-Latching PA Button	AC031
Brown Surface contact 5 terminal	AC032
Brown Flush contact 5 terminal	AC037
Aluminium contact 4 wire	AC038
Aluminium Roller Shutter Contact	AC039
6 way J/B white	AC040
6 way J/B brown	AC041
8 way J/B white	AC042
8 way J/B brown	AC043
Proximity tag (Keyfob)	
ADE UDL lead	8EP530
ADE UDL software	

iD+ Devices

iD+ Wired 1-10 Red	8EP130N
iD+ Wired 11-20 Blue	8EP131N

Notes




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The panel conforms to the requirements of the European EMC and Low Voltage directives, and carries the CE mark.



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Captiv8-20

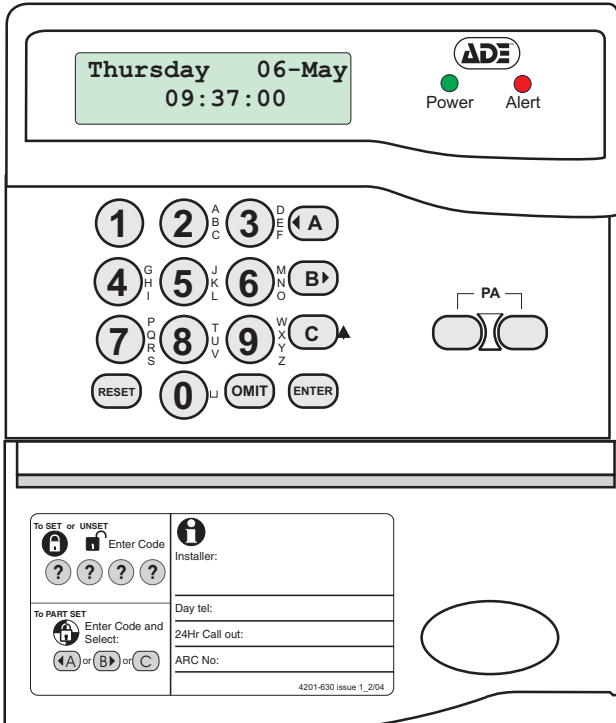
Intruder alarm system

Operating instructions



Introduction

The purpose of this booklet is to describe how to operate Captiv8-20 intruder alarm system. Some of the features described in this guide may not be applicable to your installation and should be ignored. The engineer from the alarm company should have completed the System Information in this booklet which gives information specific to your installation. You will need to refer to this as you read these instructions in order to check if certain features have been used. If in any doubt consult your alarm company.



Alarm company (Installer) name: _____

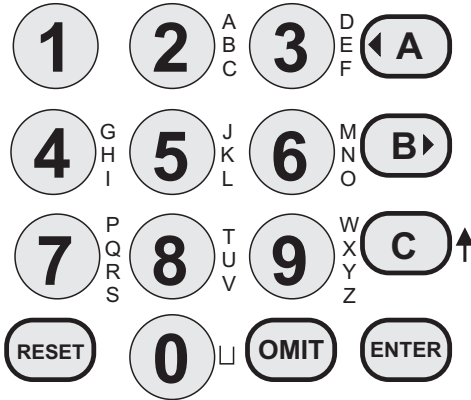
Telephone number: _____

Account number: _____

Installation date: _____

Keys, Entry codes and indications

Keys



You operate your intruder alarm system by means of a keypad. On the right of a key is a label which describes the secondary function of each key. The keys will perform their secondary function when text entry is required, for example to describe users and zones.

Codes

Before you can do anything with Captiv8-20 you will need to key in a code using one of the keypads. There are two types of entry code, which permit different levels of control over the system. Check the System Information to see which codes have been enabled. The different types of codes are:

- Normal** - this code allows the system to be set, unset, and reset after an alarm.
- Manager** - this code has the same functions as a normal user code, but in addition the manager code can add or delete all other codes, test the system, view the event log, set the time and date, omit 24Hr zones, and set the chime function.

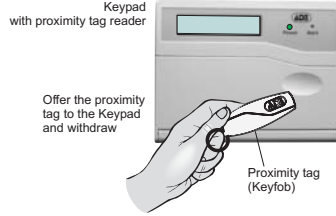


The Codes may be either 4 digit or 6 digit in length, see the System information.

Proximity tag (keyfob)

If your keypad has an integral **proximity tag** reader you can Set, Part Set, if programmed, and Unset the intruder system.

A Keypad having a **proximity tag** reader can be recognised by a depression on the keypad flap.



If you should need further **proximity tags** you should consult your installer, up to 16 maximum **proximity tags** can operate your system.

Indications



Power

The Power indicator will be lit all the time.



Alert

The Alert indicator will give a flashing indication of unacknowledged fault(s) in the system.



Alert

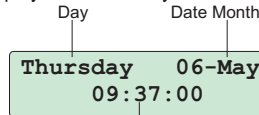
The Alert indicator will give a steady On indication of fault(s) acknowledgement. All existing faults must be acknowledged before a system can be set.



Alert

The Alert indicator will switch Off when the system is Set. If the indicator is Off during Unset condition this means there are no faults present in the system.

Standby display of an Unset system with no faults:



Time: hours, minutes and seconds

The display and keypad have backlight(s) which are set to illuminate for a short duration when a key is pressed or when the system becomes active. Your installer may have configured the backlight to be On at all times.

Setting the system

Before fully setting the system

First, check that the premises are physically secure, check to ensure all windows are shut, and all external doors locked. When the premises are completely vacated you should fully set the system.



If your system is configured for police response then it is recommended that you use the proximity tag to set the system.

Prevention of setting

A fault condition such as mains failure or fuse failure will cause the Alert indicator to flash. A fault Alert must be acknowledged before the system can be set. When all the faults have been acknowledged the Alert indicator will change to steady On indication.

To acknowledge fault Alert:

Key in your user code ②②②② to display the first fault. Acknowledge the fault by pressing **ENTER** button. Repeat the procedure to acknowledge other faults. The system can now be set.

Full Set using a User code or tag

Key in a **normal user code** ②②②② at the keypad nearest the final exit door. Alternatively present a **user proximity tag** to a keypad having a proximity tag reader.

If Part Set programs B or C are enabled then the display will ask you to select how you would like your system set.

**System Set
Select A B or C**

Press the **◀ A** key to select Program A to fully set the system. If no attempt is made to press the A key the system will automatically select Full Set Program A.

The exit period will start and the inside sounder will produce the exit sound - a pip-pip-pip sound. You must now vacate the premises by the exit route described in the System information. The length of time that you have to vacate the premises depends on the exit mode that has been programmed. Check your System Information to find out the exit mode of program A.

**** SYSTEM SET****

Full Set using the Manager code

The system can be fully set using the manager code, the procedures are slightly different to that when using a normal user code.

Key in the **manager code** ③③③③ at the keypad nearest the final exit door.

**1) Set system?
Ent to Set**

Press **ENTER**

If Part Set programs B or C are enabled then the display will ask you to select how you would like your system set.

**System Set
Select A B or C**

Press the **◀ A** key to select Program A to fully set the system. If no attempt is made to press the A key the system will automatically select Full Set Program A.

The exit period will start and the inside sounder will produce the exit sound - a pip-pip-pip sound. You must now vacate the premises by the exit route described in the System information. The length of time that you have to vacate the premises depends on the exit mode that has been programmed. Check your System Information to find out the exit mode of program A.

****SYSTEM SET****

Part-Set the System

A part-set allows detection zones in part of the protected premises to be set (turned on), while those in other areas are not set. In a domestic installation it is usual for a part-set to be programmed for use at night time. This would allow the detection zones around the perimeter of the house (doors, windows, etc), and all downstairs detectors to be enabled, while detectors in the bedrooms and on the stairs and landing are disabled.

Captiv8-20 has 2 different part-set programs called B and C. Check your System Information to see if these programs have been enabled. If they have not been enabled then you will not be able to use them.

If a part-set has been enabled you can part-set your system by doing the following: Enter **your code** at a keypad ③③③③ or alternatively present the **proximity tag** to the keypad. The display will ask you to select how you would like your system set.

**System Set
Select A B or C**

Within 5 seconds of entering your code you must press either the **B ▶** or **C** key to select one of the part-set programs. The display will acknowledge this by displaying name of the program being set.

The bottom line on the display may have been edited during installation to read a different message, for example it may read NIGHT TIME. Leave the protected area by the exit route appropriate for that part-set.

Performing a Quick-Set

Once you have selected the program to set, A, B or C, it is possible to override the programmed exit time by pressing the C key. This will give 5 seconds to vacate the protected area.

Cancelling the Exit procedure

If you key in your code, and then immediately decide not to set the system, you can cancel the exit procedure.

Key in your code **⓪⓪⓪⓪** to cancel the exit procedure or alternatively present a **proximity tag** to a keypad.

The inside sounder will stop, the keypad will display the 'System Unset' message for a few seconds and then display the time and date.

X SYSTEM UNSET X

Omitting zones during setting

It is possible to omit one or more detection zones when you set the system. The omitted zones will not be able to cause an alarm when the system has set. This facility may be useful if one of the detection zone has become faulty and keeps producing false alarms



The system will only Omit Zones for the duration of the SET period, the omitted zones are automatically reinstated once the system has been UNSET.

Because omitting a detection zone degrades the security provided by your alarm system, your engineer may have programmed only a limited number of zones to be omissible. Check your System Information to see which zones, if any, can be omitted.

Zones can be omitted by pressing the **OMIT** key during the exit period.

01: FRONT DOOR
Omit Zone: NO

The exit sound will stop, and the keypad will display the first zone from a list of zones that can be omitted. Use the **◀ A** and **B ▶** keys to step through the zones until the zone you want to omit is displayed. Now press the **OMIT** key to change the NO to YES.

Press the **ENTER** key.

The zone(s) will be omitted and the exit period will start again. You can omit as many zones as you want using this procedure.

Unsetting the system



If your system is configured for police response then it is recommended that you use the proximity tag to Unset the system.

Unsetting the System

Entering the premises by the designated entry route will cause the entry period to start. The inside sounder will emit a slow beep-beep-beep sound. You must now key in your code ②②②② or alternatively present a **proximity tag** at the nearest available keypad to cancel the entry period. The length of time that you have is called the entry time; check your System Information for entry duration. During the last 10 seconds of the entry period the entry tone will raise in pitch to inform you of the urgency to enter your code or present the **proximity tag** to the nearest keypad.

If you enter your code within the entry period the inside sounder will stop, the keypad will display the 'System Unset' message for few seconds and then display the time and date.

X SYSTEM UNSET X

**Thursday 06-May
03:30:00**

Silence Alarm and Reset system

To silence an Alarm

If an alarm occurs whilst you are in or near to the premises the alarm can always be silenced by entering your code ②②②② or alternatively present a **proximity tag**. If the system was set it will be unset at the same time. If the alarm occurs while you are away from the premises the outside and inside sounders will automatically stop after the bell time programmed by the engineer, see your System Information for the bell time.

When you enter your code after an alarm, the keypad will display the cause of the alarm.

**INTRUDER
BACK DOOR**

The second line shows additional information, such as the zone which caused the alarm. The system will now need to be reset as described in the next section.

To reset after an Alarm

After an alarm the system will need to be reset by entering a code ②②②②. The display will alternate between the alarm cause and a prompt to enter a reset code.

**Reset required
Enter Your Code**

If this prompt is displayed you can reset the system using your own code. Key in your code ②②②②.

After the system has been reset it may enter a fault lockout, see fault lockout see page 8.

To reset by Engineer Code

If the engineer has programmed the system for *engineer reset*, check the System information, it may need to be reset by an engineer code. First, try entering your code; if the keypad displays:

**Engineer Reset
Required**

You may need to call out the engineer to reset the system. Before you do this, check the System information to see if either the Remote PC Reset or Anti-code Reset options have been enabled, if so then go to the respective section in this booklet to reset the system.

Once the reason for activation has been determined the Engineer will reset the system by entering his code ②②②②.

After the system has been reset it may enter a fault lockout, see page 8.

To reset by Anti Code

If *Anti-code reset* has been enabled the keypad will display the 4-digit Quote code.

**Quote Code nnnn
Enter Anti code**

Make a note of this number nnnn (it is different each time you use this facility) and telephone your Alarm Receiving Centre (ARC). You may need to give details of the alarm and quote a password. You will also need to quote the 4 digit number nnnn. The Alarm Receiving Centre will quote a 6 digit number called an *anti-code*.

Key in the anti-code ②②②②②② to reset the system. The display will either clear and the system will revert to unset mode, or it will display the number of faults which still exist - this is a fault lockout see page 8.

To reset by Remote PC reset

Your engineer will have given you instructions on how to request a Remote PC reset.

When the Remote PC reset is received by your system, the keypad will display the 'System Reset' message for a few seconds. It will then either revert to the time and date display, or display the number of faults which still exist - this is a fault lockout.

Fault Lockout

**System Unset by
Richard**

After resetting the system the keypad display will either display the 'System Reset' message, or it will show a count of the faults which still exist. This is called fault lockout.

**Faults: 1
ENTER to View**

These faults must be cleared before the system can return to Unset mode.

To see a list of the faults press the **ENTER** key. The keypad will display each fault for 5 seconds. When all of the faults have been displayed it will again display a count of the faults. It will often be necessary to call out the engineer in order to clear these faults.

If you can, clear the faults until the display shows no faults.

Shunt Group

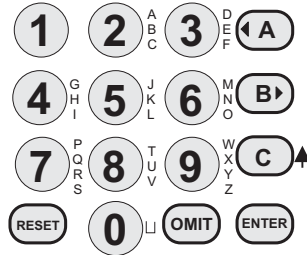
The Shunt Group facility allows part of the protected premises to be Unset without unsetting the whole system. This is often used to allow access to a garage or loading-bay area independently from the main area of the protected premises. Check your System Information to see if this facility has been provided.

The detection zones in the shunt group will operate normally; they will be set when the system is set, and unset when the system is unset. However, they can also be Unset (dis-arm) at any time by operating the **shunt group keyswitch**. Your installation engineer will give you details on how to do this.

Re-arming the shunt group is done with the keyswitch. However, if a detection zone in the group is in fault, eg a door has been left open, the group cannot be re-armed. An led located close to the keyswitch may light, or a buzzer may sound, when it is not possible to re-arm the shunt group. You must dis-arm the group by the keyswitch; this will turn off the led or buzzer. Enter the protected area and clear the faults before trying to re-arm the group again.

Using the keypad

The operation and programming of the panel is through routines called menus. There are 7 main menus, each divided down into sub-menus.



Finding and selecting a menu

On entering Manager code, the keypad will automatically display the main menu 1 screen.

Use the **◀ A** and **B ▶** keys to move up and down the main menus and press the **ENTER** key to access the menu required. The keypad will then display the sub-menus attributed to the main menu.

Again using the **◀ A** and **B ▶** keys to move up and down the sub-menus and press the **ENTER** key to access the required function.

Item selector

When programming you will often be required to move through lists. This is done by using the **◀ A** and **B ▶** keys. An arrow on the right of the display indicates what is selected for programming.

Text description

Each user is identified within the system by a fully selectable 12 character text label.

During the programming of text description the numerical keys are used to select the number or the letters printed on the right of each key. For example if letter C is required. C is printed as part of ABC on key 2, so press **2** until C is showing on the display and then the cursor moves to the next character position.

The **1** key is used in the same way for 1 or the following characters - . , / . The **0** key is used for 0 or space.

Manager Facilities

Manager's menu

The manager code is normally used to carry out system management functions. It is used to allocate and delete other user codes, test the system, view the event memory, etc.

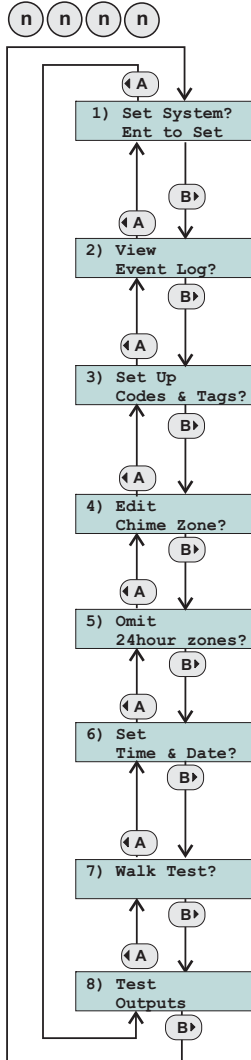
On entry of the manager code when the system is in Unset mode the keypad will display the manager's first menu option.

The manager has 8 similar menu options. Use the **◀ A** and **B ▶** keys to move through the menus. To perform a function press the **ENTER** key.

**1) Set System?
Ent to Set**

The manager code can be used to Unset the system in the normal way. It can also be used to set the system, but the procedure is slightly different to the normal user code, see page 4 and 11..

Type in the manager code to enter the manager's menus:

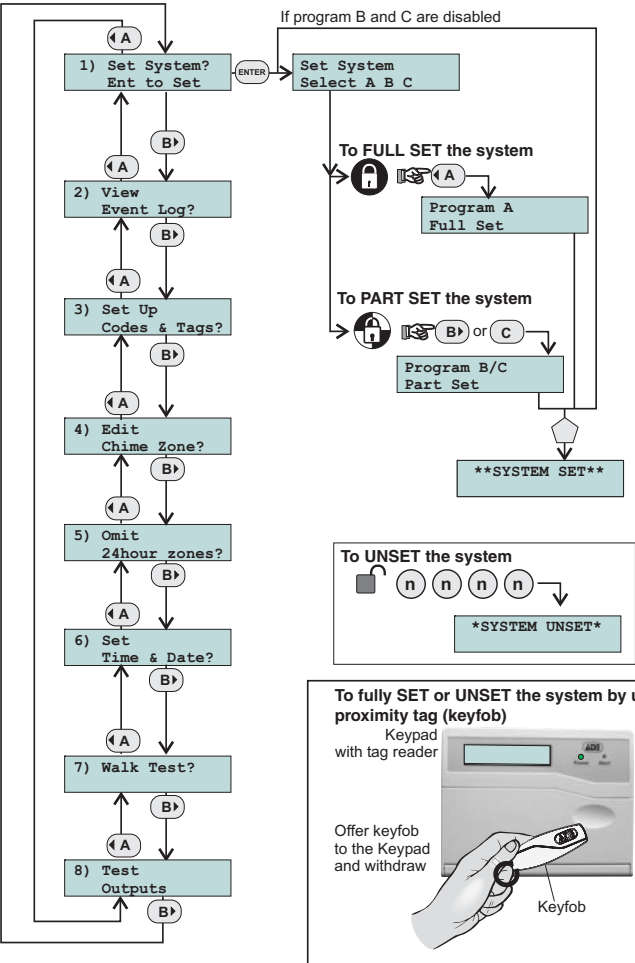


Manager's menu 1 - System Set

Menu 1 allows the **Manager** to Set the system. The options available are part-set and omit zones.

Type in the manager code to enter the manager's menus:

(n) (n) (n) (n)



RESET

To exit and return to previous menu level.

To OMIT zone(s) if allowed (see system information)

OMIT

(A) (B) Scroll to select ZONE to be omitted

OMIT

To fully SET or UNSET the system by using the proximity tag (keyfob)



Manager's menu 2 - View Event Log

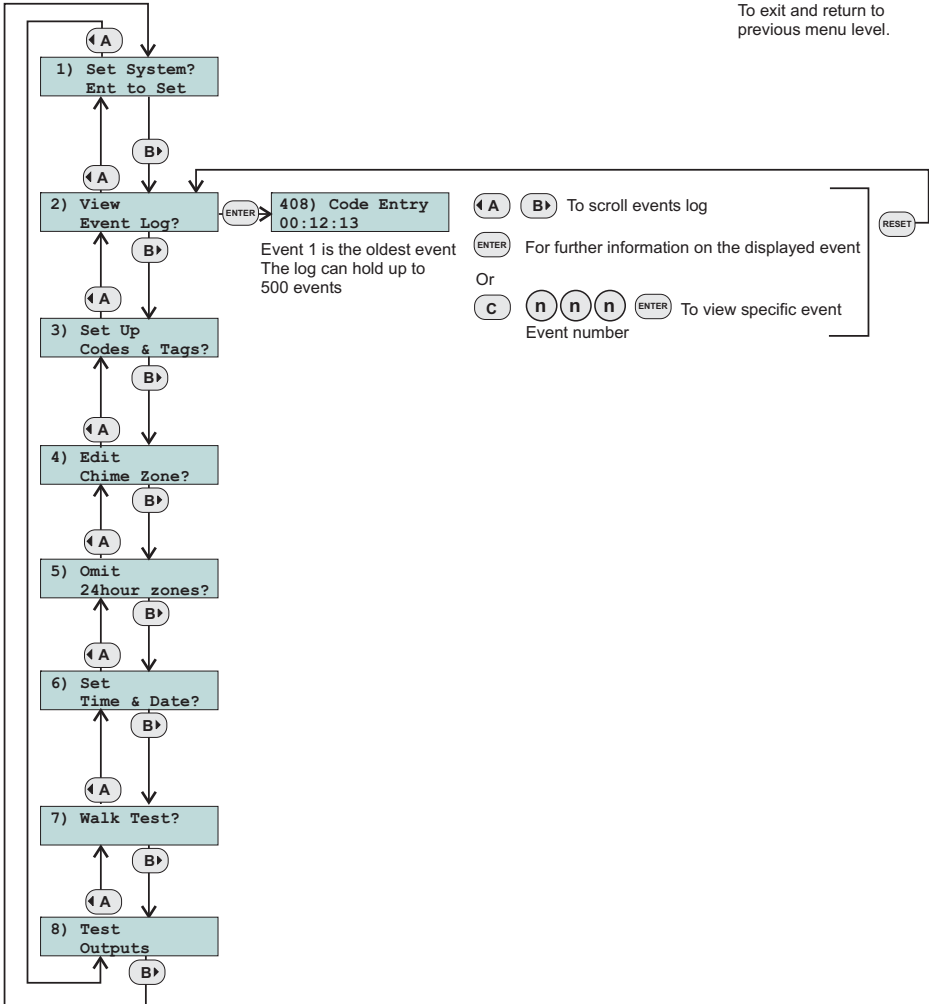
Menu 2 allows the manager to view the event log, which is a list of the last 500 events to occur. The keypad will display the last event to be logged. Some events have additional information which can be viewed by pressing the **ENTER** key when the event is displayed.

Type in the manager code to enter the manager's menus:

n n n n

RESET

To exit and return to previous menu level.



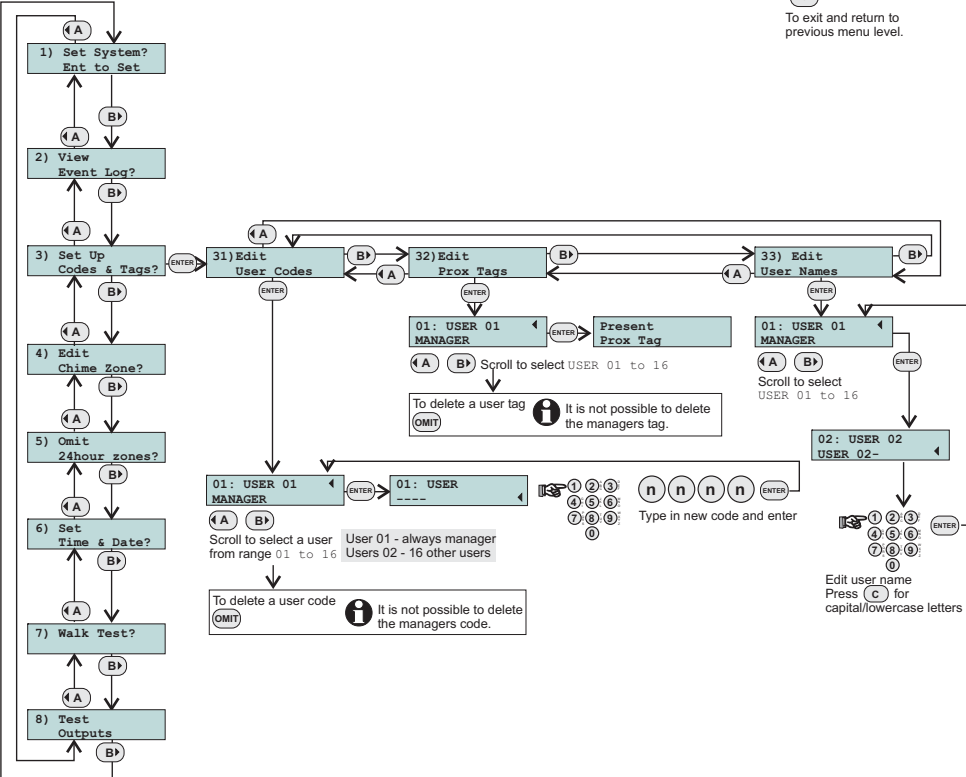
Manager's menu 3 - Set up codes and tags

This menu allows you to add, change or delete users from the system and **proximity tags** to be learnt by the keypad. Additionally the menu allows entry of the user names to user codes.

Type in the manager code to enter the manager's menus:

n n n n

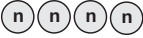
RESET
To exit and return to previous menu level.



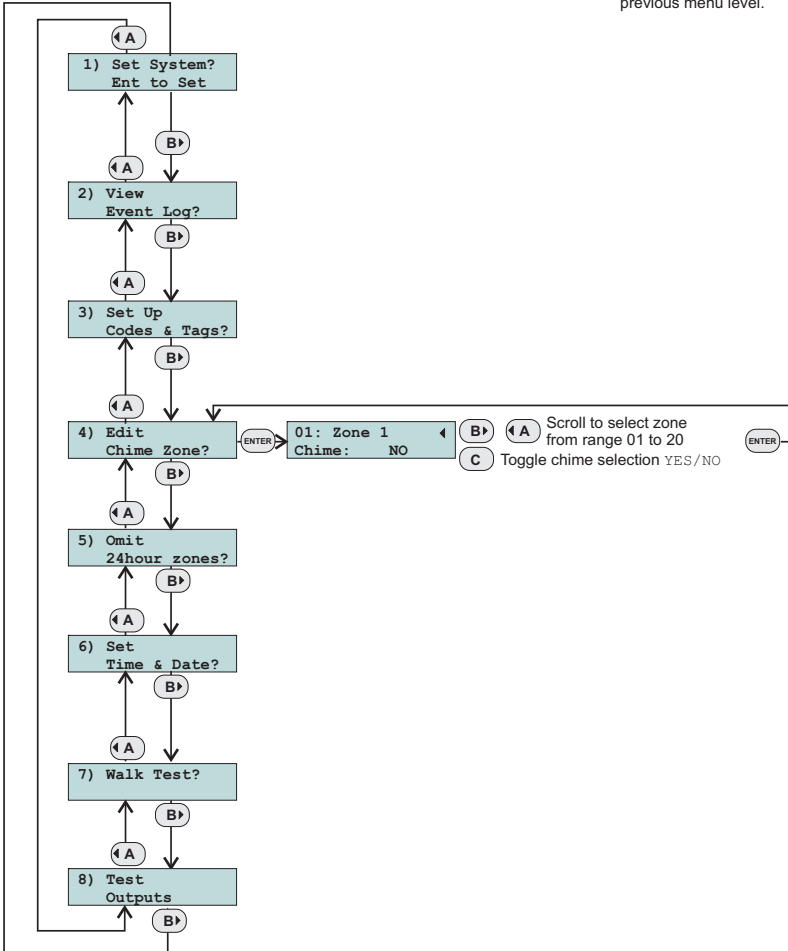
Manager's menu 4 - Chime zones

This menu allows individual zones to be selected for Chime. When a chime zone is activated keypad will display the name of the zone, and the inside sounder will emit a single dee-daa sound and then stop. This is often useful in shops to warn of a customer entering through the shop door, or in a house to warn of a potential intrusion through the back door.

Type in the manager code to enter the manager's menus:



To exit and return to previous menu level.



Manager's menu 5 - Omit 24 hour zones

This menu allows the manager to omit 24 hour zones. A 24H zone is armed all of the time, whether the system is set or not. Violating that zone will always cause an alarm. The manager can omit a 24 hour zone if it has been programmed as omissible by the engineer. A zone which has been omitted cannot cause an alarm. Check your System Information to see if any 24 hour zones are omissible.

Any 24 hour zones which have been omitted by the manager will automatically be re-instated when the system is set. It is not possible to omit 24 hour zones when setting the system. The system will not set if a 24 hour zone is faulty, the fault must first be rectified.

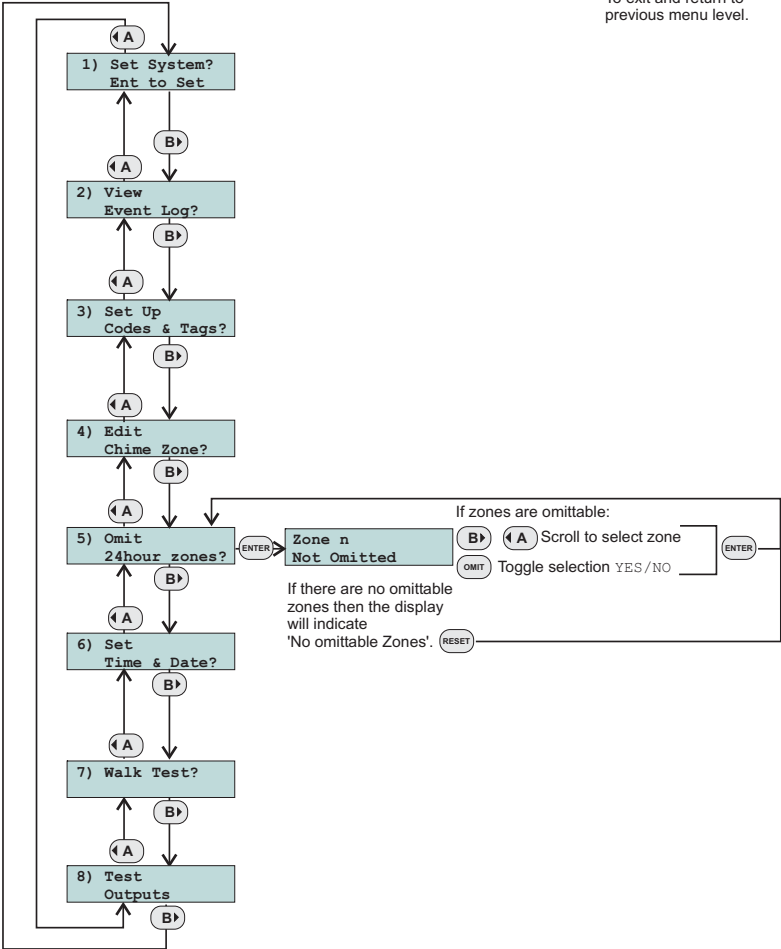
For example the garage can be a 24 hour zone which can be omitted during unset period. Which allow access into the garage while the system is unset.

Type in the manager code to enter the manager's menus:

(n) (n) (n) (n)

(RESET)

To exit and return to previous menu level.



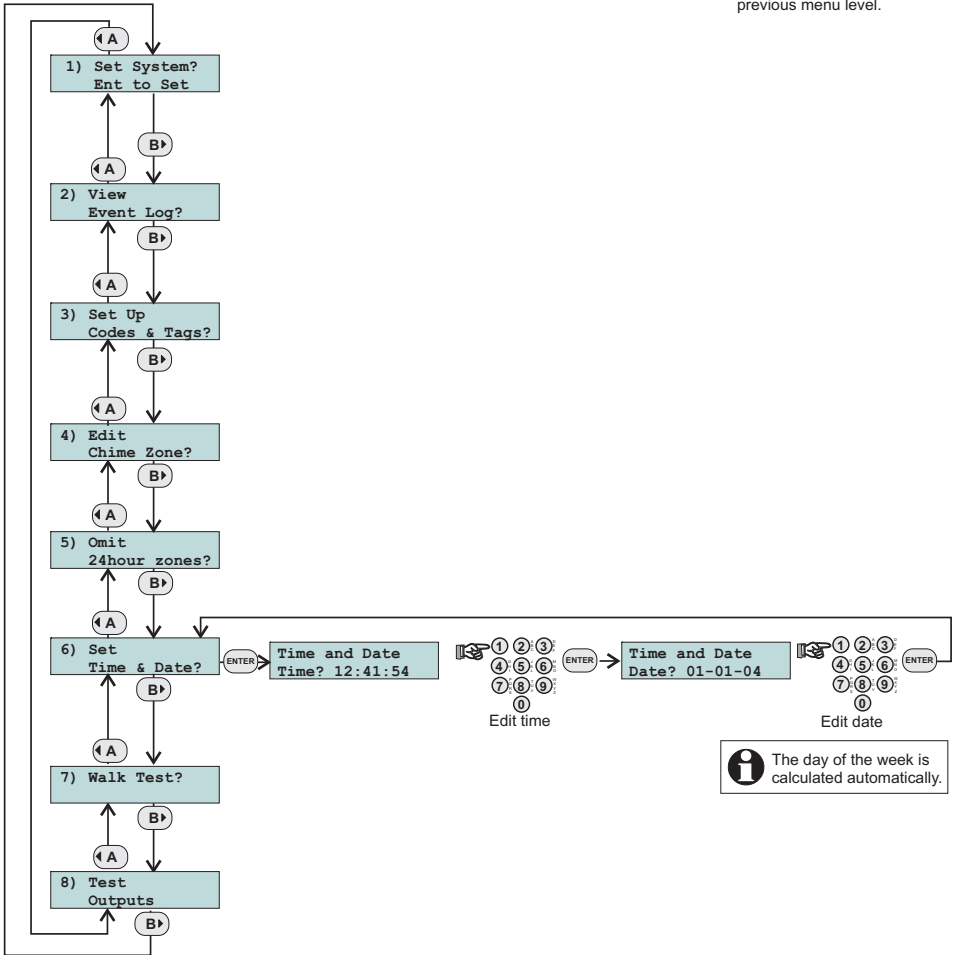
Manager's menu 6 - Time and date setting

The keypad displays the current time in 24 hour format, so 1pm is 13:00, so key in the correct time.

Type in the manager code to enter the manager's menus:



To exit and return to previous menu level.



Manager's menu 7 - Walk test

The walk test allows you to check the operation of all of the security zones in your system in order to prove that they still work correctly. Your engineer will advise how often you should carry out a walk test.

On starting the walk test the keypad display will show a '*' for each zone which has been enabled but has not yet been tested. Zones which have not been enabled are displayed as dots. The top left of the display represents zone 1, the top right is zone 10, the bottom left is zone 11, the bottom right is zone 20.



The PA buttons and smoke detectors zones cannot be tested with the walk test menu option. Any activation of these devices will cause an alarm condition.

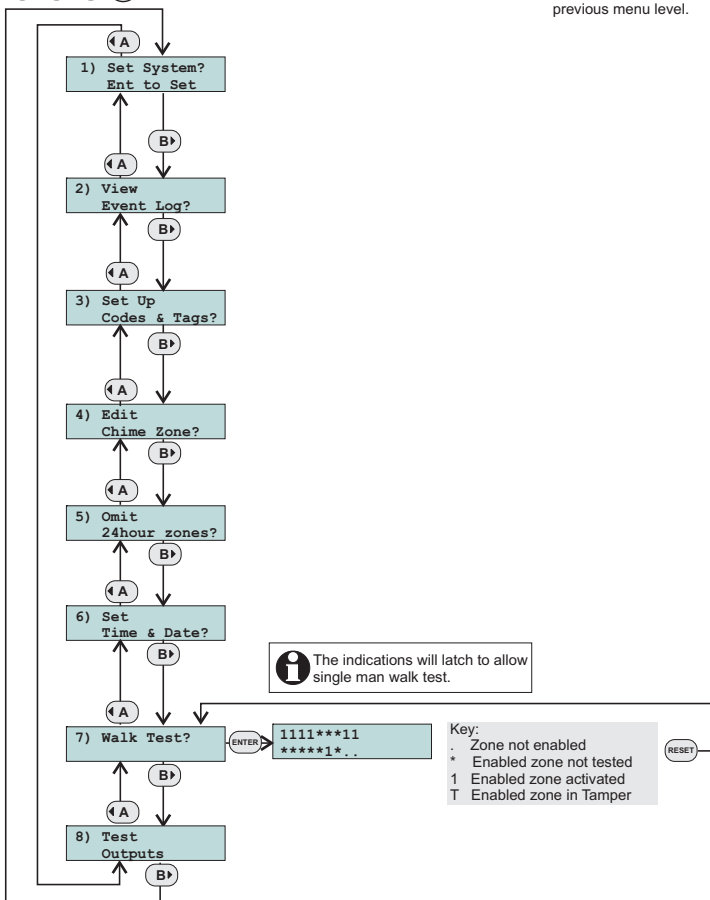
Each time that an enabled zone is activated the inside sounder will produce a warble sound, and the display will change to show a '1' in the appropriate position. The inside sounder will stop when all zones have reset.

Type in the manager code to enter the manager's menus:

(n) (n) (n) (n)

RESET

To exit and return to previous menu level.



Manager's menu 8 - Test Outputs

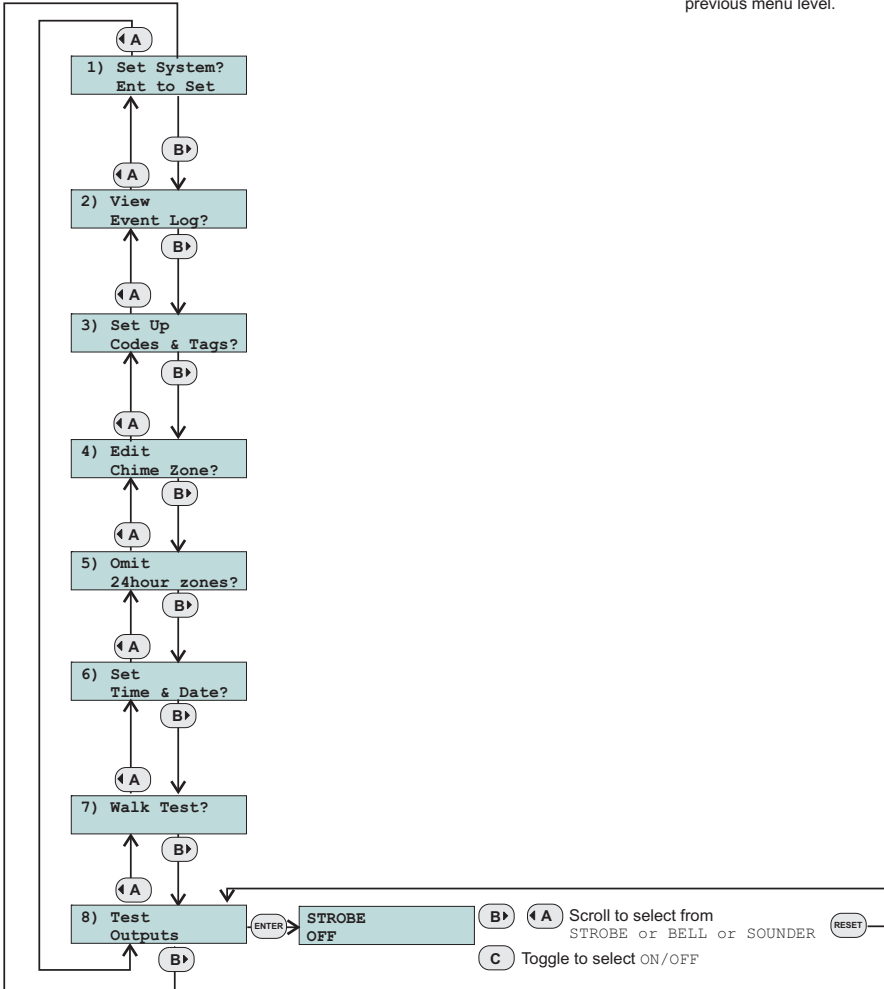
The manager can test the outputs of the system by switching each one On and Off, all of the Strobe, Bell and internal speaker sounders can be tested.

Type in the manager code to enter the manager's menus:

n n n n

RESET

To exit and return to previous menu level.



Events description

The following is a list of all of the events and faults for which the system monitors. These are stored in the event memory which may be viewed by the manager. Some of these events may be shown as the cause of an alarm when the system is unset after an alarm. Some may be displayed in the fault lockout after an alarm.

EVENT	Description
24 HOUR ALM	Logged when a 24 hour zone has operated.
AUX FTC	Logged when a <i>Fail to communicate</i> signal is received from <i>Auxiliary communication equipment</i>
AntiC RESET	Logged when the system is reset by means of an anti-code.
AUX FUSE FAIL	Logged when the 12V SPEAKER fuse has failed.
AUX FUSE OK	Logged when the 12V SPEAKER fuse is replaced after a failure.
BATTERY FAIL	Logged when the on-load battery voltage falls below 10.8V.
BATTERY OK	Logged when the battery voltage has risen above 11.4V following a battery failure.
BELL FUSE FAIL	Logged when the BELL/STROBE fused has failed.
BELL FUSE OK	Logged when the BELL/STROBE fuse is replaced after a failure.
BOX TAMPER	Logged when the general tamper loop or box tamper has opened.
BOX TAMPR OK	Logged when the general tamper loop or box tamper has closed.
CLEAR LOG	Logged when NVM fault log is reset.
CODE ENTRY	Logged when a valid code is entered by USER n.
CODE TAMPER	This is logged in either Day or Set modes when more than 5 unsuccessful attempts at entering a code have been made.
ENG ACCESS	Logged when the Engineer menu is used.
ENG FINISH	Logged when the Engineer menu is exited.
ENG'R RESET	Logged when the system is reset by an Engineer code.
ENTRY DEVIAT	Logged during the entry period when an Immediate zone is activated.
ENTRY START	Logged in the set period when an entry/exit zone is opened which causes the entry period to start.
FIRE ZONE	Logged when a Fire zone is activated. Includes the zone number.
iD LINE OK	Logged when iD short circuit is removed.
iD SHORT	Logged when excessive current flows in the iD line indicating a short circuit across the lines.

Operating instructions

INTRUDER	Logged when a Security or 24 Hour zone is activated. Includes the zone number.
LOCAL LG OFF	Logged when the local PC connection has ended.
LOCAL LOG ON	Logged when the local PC successfully connects to the panel.
MAINS FAILED	Logged when there is a mains supply failure to the panel.
MAINS OK	Logged after a previous MAINS FAILED when the mains power has been restored.
NEW TIME/DATE	Logged when either the time or date is changed, it records the time and date after the change.
NVM INIT	Logged when the engineer forces the NVM to be re-initialised.
OLD TIME/DATE	Logged when either the time or date is changed, it records the time and date before the change. This event is always followed by NEW TIME/DATE.
PA	Logged when either a Silent or Audible PA or PA zone is activated. Includes the zone number.
PC LOG OFF	Logged when the remote PC Logs off from the system.
PC LOG ON	Logged when the remote PC logs on (connects) to the system.
PC PRG ABORT	Logged when the remote PC aborts the download.
PC PRG START	Logged when the remote PC starts a download of the programming data.
PC PROG DONE	Logged when the remote PC successfully downloads a new system setup.
PC RESET	Logged when the system is reset by the remote PC.
POWER UP	Logged after a system power up.
PROX TAG	Logged when a tag is used, USER n.
PUSH TO SET	Logged when a Push to Set zone is used to complete setting procedure.
RKP FAILED	Logged when an RKP fails to respond to the control panel.
RKP OK	Logged when failed RKP comes back on line.
RKP PA	Logged when RKP x PA buttons are operated.
RKP TAMPER	Logged when RKP case tamper has closed.
RKP TAMPER	Logged when the tamper switch in the RKP is opened. Includes the RKP number.
RKP TAMPER OK	Logged when RKP case tamper has opened.
SET BY	This event is logged when the system is set. It identifies the user who set the system.

SILENT PA	This event is logged when a silent PA has operated.
SOAK CLOSE	This event is logged when soak zone has closed.
SOAK OPEN	This event is logged when soak zone has opened.
START UP	Logged when the system event handler has started following power up.
SYSTEM REARM	Logged when system is re-armed after a bell timeout.
SYSTEM UNSET	Logged when the system has been unset by a user.
TEL FAULT	This event is logged when there is a phone line fault.
TEL LINE OK	This event is logged when there is a phone line recovery after a failure.
USER RESET	Logged when the system is reset by a user code.
ZEX FAILED	Logged when the zone expander communication has failed.
ZEX OK	Logged when the zone expander communication has recovered.
ZEX TAMPER	Logged when the zone expander case tamper has operated.
ZEX TAMPR OK	Logged when the zone expander case tamper has closed.
ZONE EXCLUDED	Logged when the system has excluded a zone at re-arm.
ZONE OMITTED	Logged when the user omits a zone during setting the system.
ZONE TAMPER	Logged when the zone tamper has operated.

System Information

Detection Zones

Zn No.	Description	Type			Programs			Permit Omit	24 hr Zone	Group shunt
		Security, Fire, etc..	A	B	C					
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										

Programs, Codes and other settings

Programs	Enabled	Exit Mode	Entry time	Exit time	Entry/exit route
A	✓				
B					
C					

User number	User name	Code	Prox. Tag
1 (always manager)			
2			
3			
4			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			



On-board Digi modem	YES / NO
Signalling Device fitted	YES / NO
Permit Entry Deviate	YES / NO
Engineer Reset	YES / NO
Remote PC Reset	YES / NO
Anti-code Reset	YES / NO
6 digit code	YES / NO

Alarm Receiving Centre details	
ARC Number	
Name	
Account No	
Password	

Bell time	minutes
Confirmation time	minutes
Bell delay	minutes

Outputs

Output number	Description
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	


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The panel conforms to the requirements of the European EMC and Low Voltage directives, and carries the CE mark.



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