CP7 / CP8

INSTALLATION INSTRUCTIONS

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Introduction

The eurosec control panel is supplied as a blank fronted end station complete with RKP. Up to 3 additional may be fitted if required. The unit is fully programmable by the installation and comes pre-programmed with a set of factory defaults that will suit most installations. Seven programmable zones are available on the CP7 and eight zones on the CP8

IMPORTANT!

Input: AC230V +/-10% ~50Hz 200mA Max. 49W Max

For Indoor Use Only

Nominal Temp Range: 0° - 50° Centigrade

This equipment is intended only for use as a Security Alarm Control Panel. Adequate ventilation away from heat and humidity must be provided. The unit must be fixed securely to a non-flammable surface using suitable fixings.

All mains wiring must be to BS7671 (1992) IEEE wiring regulations (or appropriate international regulatory standards). See relevant section within this manual for connection to mains supply.

Provision is provided for an earth connection within the mains connection block, this is for the protection of the wiring and is not a functional part of the unit.

All low voltage (alarm) wiring must be to the appropriate international regulatory standards and comply to good wiring practice.

Replacement fuses should be of the same type and rating conforming to IEC127.

The maximum current draw from the unit for all output combinations must not exceed 1Amp.

The unit is intended for use with a suitable re-chargeable battery permanently connected to the appropriate terminals.

Mains Safety

The main unit must be connected to a mains supply via a 3Amp unswitched fused spur. This must be carried out by a suitably qualified electrician. If you are in any doubt please contact your local electricity company for advice.

Good Working Practice

The reliability of any security system may be greatly enhanced by following a few good working practices. Do not connect the mains supply to any rings that have fridges, freezers or fluorescent lights connected to them. When running low voltage alarm cables avoid running parallel to mains wiring, if you do so separate by a least nine inches. When crossing mains cables do so at 90°

Control Panel & RKP Location

Consideration needs to be given to the location of the Control Panel & RKP with regards to-

The surface that the unit(s) are to be fixed to should be firm, vibration free, damp free and fire resistant.

Access for the routing of mains and low voltage wiring.

Service Access to the unit(s).

Operation of the keypad.

Operation of ACE (if fitted).

Readability of the RKP display(s).

Mounting the Control Panel

Unscrew the two cover retaining screws and remove the front cover.

The PCB is held in place by two lower PCB retaining lugs and two upper sprung latches. Push both upper latches upwards and pull the PCB forward and upward in one movement.

With the PCB removed from its retainers offer the unit to the wall and mark for the three fixing points. **Under no circumstances should you drill through the base.**

Remove any knockouts that are required from the base and also the cover screw caps from the moulding pips in the base and retain them for use after fixing the front cover in place.

Using suitable rawl plugs and 3 No.8 x 1.5" (min) screws fasten the base to the wall but do not tighten until all cabling is in place.

Mounting the RKP

Lower the front cover of the RKP and unscrew the single cover fixing screw.

Offer the RKP base to the wall and mark the three fixing positions. **Under no circumstances should you drill through the base.**

Remove one of the cover screw caps and retain for use after fixing the front cover.

Using suitable rawl plugs and 3 No.6 x 1" (min) screws fasten the base to the wall offering the connecting cable through a suitable aperture in the base as you do so.

Wire the RKP as shown in the wiring section of this manual.

Replace the cover and tighten the cover fixing screw.

When finished put the cover screw cap in on the cover screw and push into place.

General Detector Wiring

We would strongly suggest that you adopt a colour scheme for the detector wiring of your system. This will enable you to quickly determine the source of any problems that may occur. The security industry does not have recommended colour schemes because of the nature of the wiring, one suggested scheme is given below.

Red/Black..... Alarm Pair

Green..... + Supply

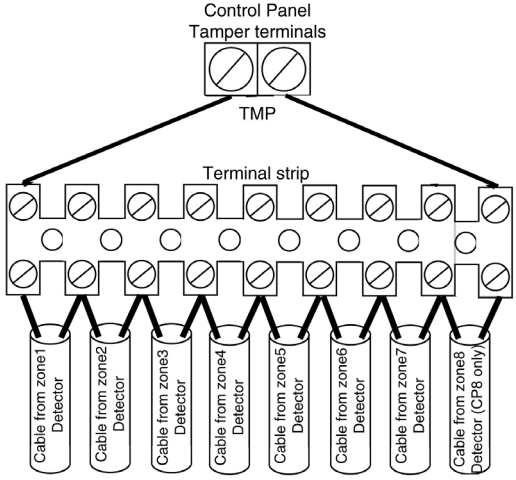
White..... - Supply

Yellow/Blue..... Tamper Pair

Wiring Global Tampers

One pair of tamper terminals is provided on the control panel PCB for tamper protection of the zones. This is termed as a Global Tamper, one simple method of wiring Global Tampers is shown in Fig. 1 below.

Fig. 1 Wiring Global Tampers



Wiring Contacts

Many types of contacts are available and fall in to two categories, surface or flush. The method of operation is the same for both. One half of the contact is fitted to the door or window frame, inside is a reed switch that is pulled together in the presence of a magnetic field. The other half that is fitted to the opening section of the door or window contains the magnet. These devices are referred to as normally closed (NC or N/C). The gap allowed for reliable operation will vary (usually between 5mm & 20mm) dependant on the model used, you should check this specification with your supplier before fitting.

In Figs. 2 & 3 we have used 5 screw surface contacts for clarity of the illustration.

Fig. 2 Wiring Single Contact

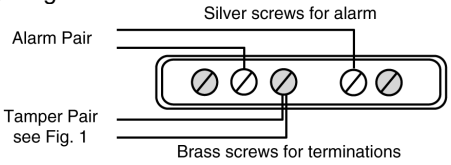
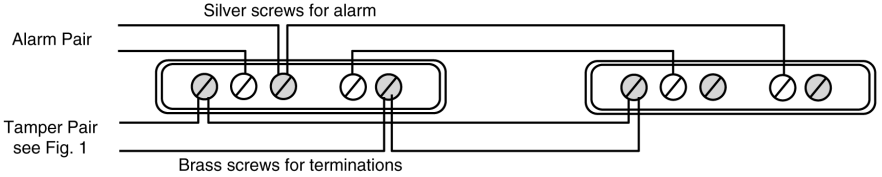


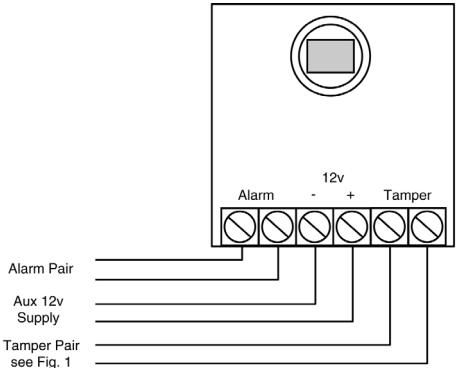
Fig. 3 Wiring Double Contact (on the same zone)



Wiring Passive Infra-Red Detectors

It is essential when using Passive Infra-Red Detectors that you refer to the manufacturers instruction as to the positioning and settings of the detector. This section is intended as a guide to the wiring of the detectors.

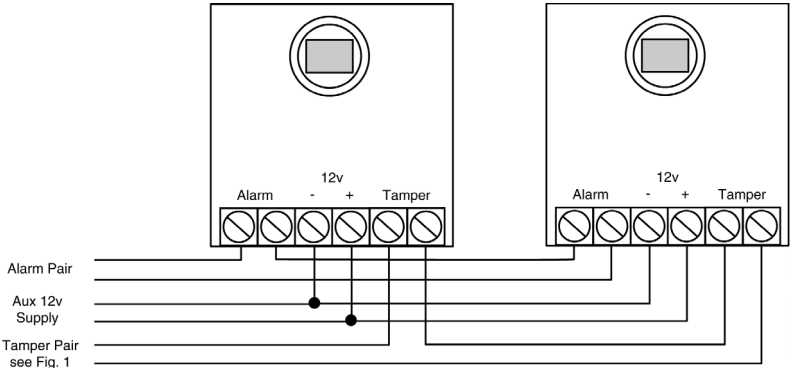
Fig. 4 Wirin



Notes
Positions of terminals will vary according to make.

All PIR wiring diagrams apply also to Dual Technology Detectors and Vibration sensors.

Fig. 5 Wiring Double PIR (on same zone)



General Bell Box Wiring

As with the detector wiring we would suggest that you adopt a standard for your Bell Box wiring, the colour scheme below is provided as a suggestion only.

Hold Off Supply +..... Red

Hold Off Supply - .... Black

Trigger..... Blue

Tamper Return..... Yellow

Strobe +..... Green

Strobe -..... White

Bell Tamper Ring

It should be noted that many bell boxes that are fitted with rechargable batteries will sound when the battery is connected. This connection may take the form of manually connecting the battery wires to terminals or placing a link into the On position. Dependant on the bell box being used the sounder may sound when the battery is connected unless power from the control panel is connected or the bell box tamper is closed or in some cases both. **Most bell boxes produce high volume noise adequate ear protection MUST be used.**

Sample Bell Box Connections

Below is shown general and sample bell box connections for some of the popular bell boxes that are available.

Fig.6A

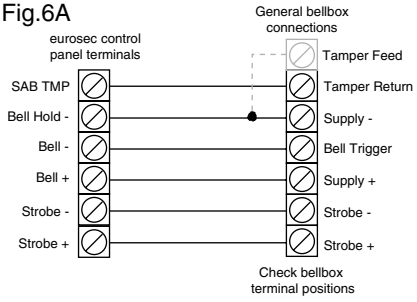


Fig.6B

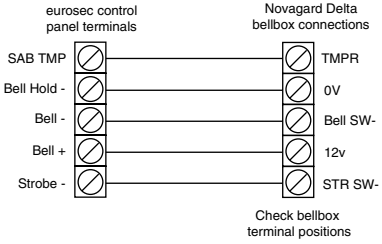


Fig.6C

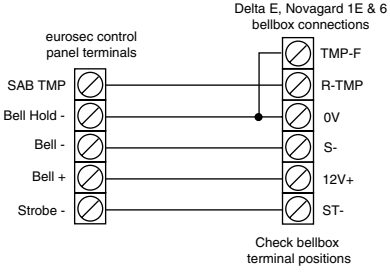


Fig.6D

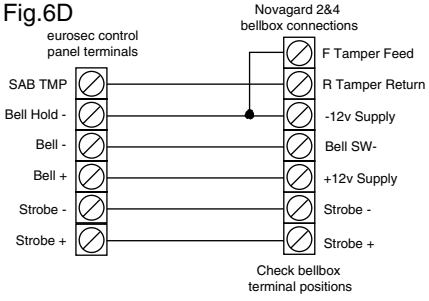


Fig.6E

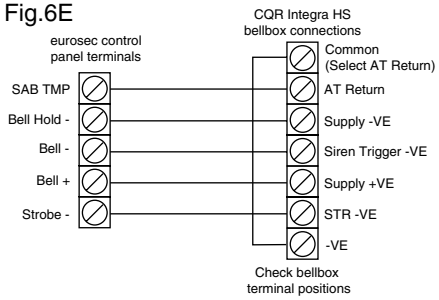


Fig.6G

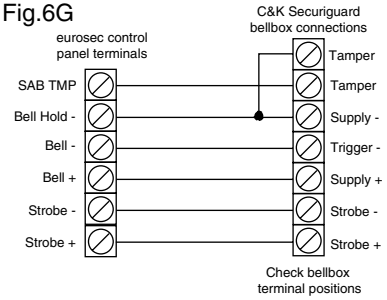


Fig.6I

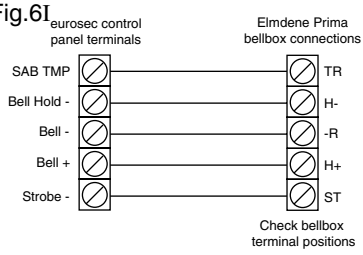


Fig.6K

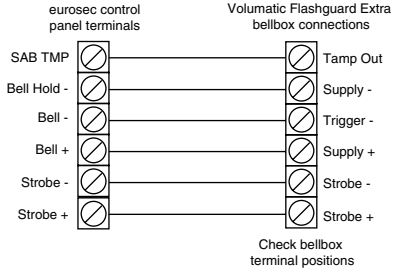


Fig.6F

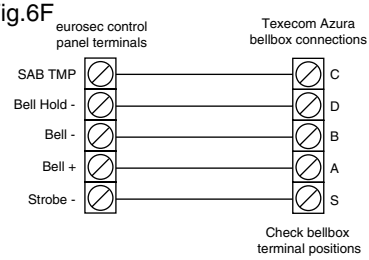


Fig.6H

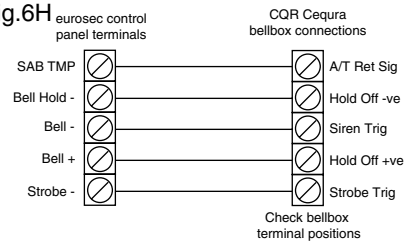


Fig.6J

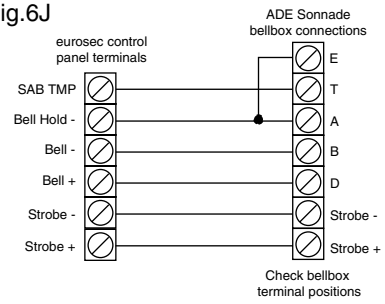


Fig.6L

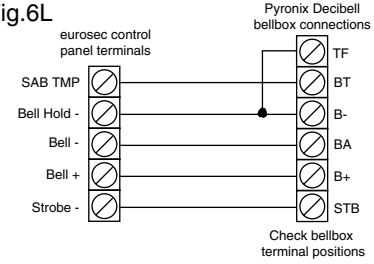
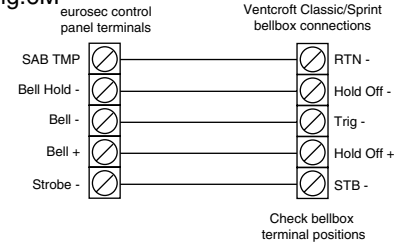


Fig.6M



Wiring

Wiring Notes

The 680 Ohm resistor (provided) must be fitted across 12v & D1 at the last RKP in line.

Maximum current draw from the panel MUST NOT EXCEED 1Amp. This includes all Bells, Sounders, Speakers, Detectors & RKPs etc.

Max Output current for Strobe is 250mA

Max Output current for Bell is 500mA

Panel speaker volume may be adjusted via RV1

PGM1 sink current is 50mA
PGM1 is pulled high 1K pull-up resistor

Minimum impedance for Speaker is 16 Ohm in any speaker configuration.

Please refer to the Wiring Global Tampers section for details of wiring multiple tampers.

Multiple detectors fitted to a single zone should have the alarm contacts wired in series. Please see detector wiring section for more details.

Any N/O devices such as pressure pads should be wired across the Global Tamper and the zone required. The zone terminals should remain shorted.

When connecting the battery to the unit please ensure correct polarity.

Fig. 8 Mains Terminal Block Connections

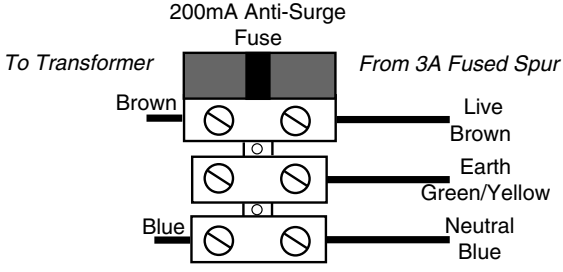
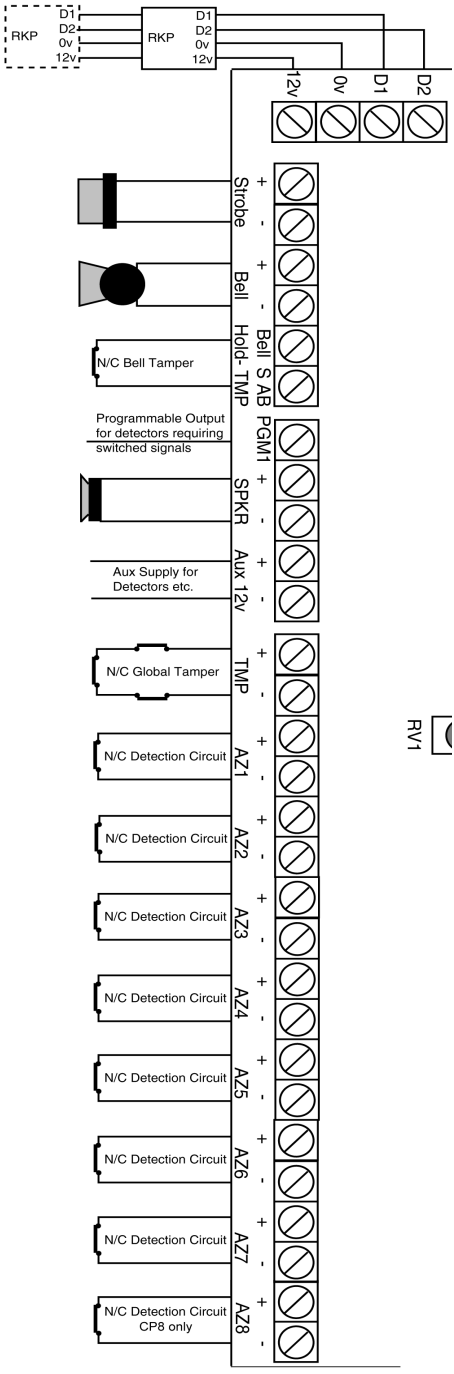


Fig. 7 Control Panel Connections



Terminology

Various terms are used throughout this manual that may be unique to the eurosec control panel. This section gives brief details of this terminology.

Zones

12Hr
A zone programmed as 12Hr is active when the system is set.

E/E
Entry/Exit Zone. If violated when the system is set will start the Entry Time. May also be used to terminate the Exit Time dependant on the Setting Mode being set to E/E or Time+ E/E.

Access
An Access Zone will allow violation during Exit or Entry mode. Violation at other times will result in instant alarm.

Panic
24Hr protection for devices such as Panic Buttons etc.

24Hr
A 24Hr Zone will give internal speaker if violated when the system is unset or full sounders when set.

Fire
Active 24Hrs when violated gives internal speakers + Pulsed External.

Alert
Internal Speaker only.

ET
Exit Terminator. Will terminate the Exit Time provided Setting Mode is set to E/T.

Part E/E
Will act as Entry/Exit whilst part-set.Will act as Access at all other times.

Keyswitch
Available for zone 5 only. Will Set/Unset the system.

Part 1, Part 2, Part 1&2
Zones set as a particular Part-Set will be omitted when that Part-Set is used. Part 1&2 refers to Part-Set 3

Chime
Zones set as Chime will chime when violated with the system unset.

System

ET	Exit Terminator (Button).	Engineer Code	Code that allows the installation engineer to program and use the system.
E/E	Entry/Exit (Times/Zone).		
Part Set Sounders	Sounder Mode during Part-Setting.	User Code	Code that allows end user(s) to operate the system. Up to nine users may be programmed onto the system.
Alert Keys	Pressing keys 1&3 simultaneously.		
SAB	Self Actuating Bell.	Confirm	Confirmation of successful setting via the strobe light.
SCB	Self Contained Bell.		
Reset	To return panel to normal after an alarm.		

Engineer Programming Mode

Two programming modes are available to the engineer these are Engineer/User Mode and Engineer Programming Mode. This section will deal with the Engineer Programming Mode covering options 11 to 30.

The function of the LEDs within this mode are to indicate the numbers 0 to 9 as shown in Fig. 9. LEDs may be illustrated as ON, OFF or FLASHING as shown in Fig.10

Fig.9 LED Functions Within Engineer Mode

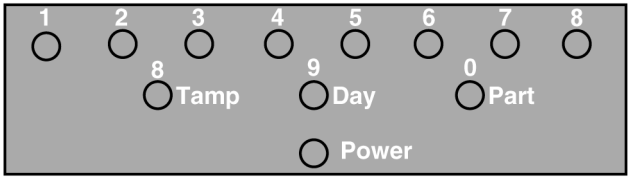
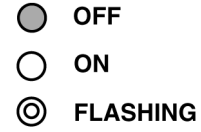
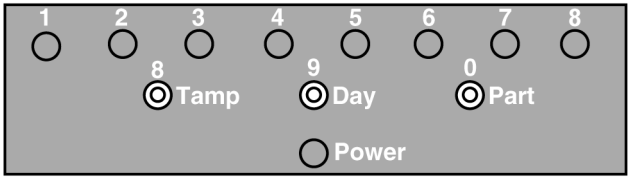


Fig.10 LED Modes Key.



To enter into the Engineer Programming Mode enter the **engineer code** (factory default 1234) followed by **No**. The display will show as Fig.11

Fig.11 Display Indicating Engineer Programming Mode



Note: The keypad displays shown are for the CP8 control panel Zone 8 LED is not available on CP7 control panel.

From this mode the engineer enters the option number required followed by **Yes**. The display will then show the current value for the option. The first digit being indicated by a FLASHING LED and the second number by an ON LED.

If the engineer chooses to keep the current value pressing **Yes** will return back to Engineer Programming Mode as shown in Fig.11

If the engineer chooses to change the current value pressing **No** will illuminate all the LEDs. As the first digit of the new value is entered the corresponding LED will FLASH. As the second digit is entered the LED corresponding to this digit will show ON and all other LEDs will extinguish. **If the second digit is the same as the first only one LED will show ON after the second digit is entered.**

The display is now showing the two digit value for the chosen option to accept this press **Yes**. The display will show as Fig.11. Repeat this process until all the required options have been programmed.

Throughout the programming mode pressing 0 will escape back one step, for example **pressing 0 whilst the display in Fig.11 is showing would return you to the unset mode.** The only exception to this is when the unit is expecting a new two digit value, in this instance you would need to enter the two digits followed by YES before entering the 0.

Programmable Engineer Options

Option No. 11 to 18 — Zone Types & Attributes

Each zone may have a type (first digit) and attribute (second digit) programmed by the engineer. Zone 1 is programmed through Option 11, Zone 2 through Option 12 and so on until Zone 7 through Option 17 (or Zone 8 for CP8 through Option 18)

First Digit	Second Digit	Default Settings (Zones)
0 = 12Hr	0 = Full Set	**Zone 1 = 14**
1 = E/E	1 = Removed in Part 1 Set	**Zone 2 = 80**
2 = Access	2 = Removed in Part 2 Set	**Zone 3 = 00**
3 = Panic	3 = Removed in Part 1 or 2 Sets	**Zone 4 = 01**
4 = 24Hr	4 = Full Set + Chime	**Zone 5 = 02**
5 = Fire	5 = Rem in P1 + Chime	**Zone 6 = 00**
6 = Alert	6 = Rem in P2 + Chime	**Zone 7 = 30**
7 = ET	7 = Rem in P1 & P2 + Chime	**Zone 8 = 00** (CP8 only)
8 = Part E/E		e.g. Zone 1 =
9 = Keyswitch (zone 5 only)		E/E, Full Set + Chime

Option No. 19 — Full Set Exit Time

Full Set Exit Time is given in seconds and is entered as two digits, for example 09 for 9 seconds.

Range may be 00 to 99 (Seconds)

Default = 30 Seconds

Option No. 20 — Part Set Exit Time

Part Set Exit Time is given in seconds and is entered as two digits, for example 09 for 9 seconds.

Range may be 00 to 99 (Seconds)

Default = 30 Seconds

Option No. 21 — Full & Part Set Setting Modes

This option controls the Setting Mode for both Full Set (first digit) and Part Sets (second digit).

First Digit	Second Digit	Default Settings = 22
0 = E/T (Exit Terminator)	0 = E/T (Exit Terminator)	2 = Timed Full Set
1 = E/E (Entry exit zone)	1 = E/E (Entry exit zone)	2 = Timed Part Sets
2 = Timed	2 = Timed	
3 = Timed or E/E	3 = Timed or E/E	

Option No. 22 — Part Set Sounders & PGM1

Part Set Sounders (first digit) refer to the internal speaker mode during Part Sets. PGM1 (second digit) refers to PGM1 Terminal on control panel PCB.

First Digit	Second Digit	Default Settings = 31
0 = All Part Sets Silent	0 = Pulse On	3 = All Part Sets Audible
1 = Part Set 2 Silent	1 = SW+	1 = SW+
2 = Parts 1 & 3 Silent	2 = Pulse Off	
3 = All Part Sets Audible	3 = Bell	
	4 = Strobe	
	5 = E/E	
	6 = On in Test	
	7 = Internal Alarm	
	8 = Alarm	
	9 = Panic	

Option No. 23 — Entry Time 1

Entry Time 1 is started when (a) an Entry/Exit zone is opened when the system is Full or Part Set or (b) when a Part E/E zone is opened when the system is Part Set. Time is given in seconds and is entered as two digits.

Range may be 00 to 99 (Seconds)

Default = 30 Seconds

Option No. 24 — Entry Time 2

Entry Time 2 is started when (a) Entry Time 1 expires or (b) when a 12Hr zone is opened during Entry Time 1. The tone of Entry Time 2 differs from that of Entry Time 1 and the volume is higher.

Range may be 00 to 99 (Seconds)

Default = 10 Seconds

Option No. 25 — Alert Keys & Setting Confirmation

Alert Keys (first digit) are activated by pressing keys 1&3 together. Setting Confirmation (second digit) will be given via the Strobe Light.

First Digit	Second Digit	Default Settings = 10
0 = Off	0 = Off	1 = Panic
1 = Panic	1 = Any Set	0 = Off
2 = Fire	2 = Full Set	
3 = Alert		

Option No. 26 — Bell Re-Arms

Bell Re-Arms is the number of times the bell will Re-Arm after an alarm. If this option is set to 99 the number of Re-Arms is infinite.

Range may be 00 to 99 (Re-Arms)

Default = 99 Re-Arms

Option No. 27 — Bell Ring Time

Bell Ring Time is the time in minutes that the bell will ring when an alarm is triggered. The default is 20 minutes but you should check local bylaws for any restrictions in your area.

Range may be 00 to 99 (Minutes)

Default = 20 Minutes

Option No. 28 — Bell Mode & Tamper Ring

Bell Mode (first digit) controls if the bell is SAB or SCB. When set to SAB the bell- terminal will switch when the alarm is triggered. This is the usual setting for most systems. When set for SCB the Bell+ terminal is + and the Bell- is -. When the alarm is triggered the bell- terminal swings to + allowing the bell to sound from its own battery. Bell Tamper Ring (second digit) determines if the panel will trigger the Bell in the event of a Bell Tamper.

First Digit	Second Digit	Default = 00
0 = SAB	0 = Bell Tamper Ring Off	0 = SAB
1 = SCB	1 = Bell Tamper Ring On	0 = Bell Tamper Ring Off

Option No. 29 — Reset Modes

Reset Modes determines what level of code is required to reset the system after an alarm. Reset is split into two sections Tamper Reset (first digit) and Alarm Reset (second digit).

First Digit	Second Digit	Default = 01
0 = Any Code	0 = Any Code	0 = Any Code
1 = Engineer Code	1 = Master Code	1 = Master Code
	2 = Anti Code	
	3 = Engineer Code	

Option No. 30 — Service Timer

Service Timer once programmed will count down in weeks until two weeks remain and will then warn the user that service is due. When zero weeks remain the system will lock-out after an unset. Two further weeks may be granted via Anti Code until the system is serviced and the timer re-programmed to the desired number of weeks. If the Service Timer is programmed to 99 weeks it is Off.

Range may be 00 to 99 (Weeks)

Default = 99 Weeks

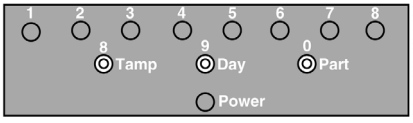
Engineer/User Mode

The engineer has a second mode available via the engineer code. This Engineer/User mode allows the engineer to operate the system as a user. For details of user functions including setting and unsetting the system please refer to the user manual. Options available are:-

Remove Zone (Menu No. 4)
This option allows zones to be removed whilst setting the system. Please refer to user manual for details.

Test (Menu No. 5)
Allows the system to be tested (zones, bell & tampers). Please refer to user manual for details.
Note: If tampers are included in the test the following LEDs will extinguish when tamper(s) are opened: Tamp + LED1 for **Bell tamper,** Tamp + LED2 for **Panel tamper,** Tamp + LED4 for **RKP tamper** and Tamp + LED5 for **Zone tamper.**

View Log (Engineer Only Menu No.6)
This option is only available via the engineer code (default 1234) and allows the engineer to scroll back through the last 80 events.



1) Enter the **engineer code** followed by **No** the display will show:-

2) Press **6**. The last event will now be displayed. Whilst viewing the Log press **No** for previous event or **Yes** for next event. Possible events are:-

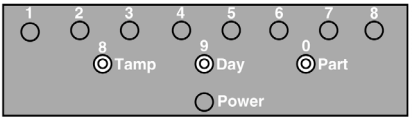
Full-Set	Day LED Flashing
Part 1-Set	Part + Zone 1 LED On
Part 2-Set	Part + Zone 2 LED On
Part 3-Set	Part + Zone 3 LED On
Unset Engineer	Day LED On
Unset User 1	Day LED On Zone 1 LED On
Unset User 2	Day LED On Zone 2 LED On
Unset User 3	Day LED On Zone 3 LED On
Unset User 4	Day LED On Zone 4 LED On
Unset User 5	Day LED On Zone 5 LED On
Unset User 6	Day LED On Zone 6 LED On
Unset User 7	Day LED On Zone 7 LED On
Alarm Triggered	All LEDs Flashing
Cause of Alarm	Zone (n) On
Zone Removed	Zone (n) Flashing
Watchdog	All LEDs On

Bell Tamper	Tamp + Zone 1 LED
Panel Tamper	Tamp + Zone 2 LED
RKP Tamper	Tamp + Zone 4 LED
Global Tamper	Tamp + Zone 5 LED

Chime On / Off (Menu No.7)
Allows the Chime option to be turned On & Off for zones that have been allocated as Chime via options 11 to 18 .Please refer to user manual for details.

Engineer Code (Menu No.9)
If this option is accessed via the **engineer code** then the **engineer code** will be programmed. If it is accessed via a **master level user code** the **user code(s)** will be programmed.

It should be noted that if the new engineer code starts with a 9 it will be locked into the system. Defaulting the panel will not return the engineer code to the factory default. It may only be changed by accessing it through this engineer code. To program the engineer code proceed as follows.



1) Enter the **Engineer Code** followed by **No.** the display will show:-

2) Press 9, LEDs 1 to 4 will illuminate.

3) Enter the **new** four digit **Engineer Code** (As each digit is entered one of the LEDs will extinguish)

4) The display will return to that shown in step 1.

5) To return to Unset press **0** twice.

Engineer Reset (After an Alarm)

If the Reset Mode(s) has been programmed for Engineer follow the steps below to reset the system.

1) The user must first unset the system. Details in user manual.

2) Enter the engineer code followed by **RESET**.

Anti-Code Reset (After Alarm or Service Timer Lockout)

To effect an Anti-Code Reset the engineer will require either a ProDigi Programmer with Anti-Code Generator or Anti-Code Software running on a P.C.

1) Ask the customer to enter the user code and then press Full-Set.

2) A four digit seed code will be shown by the display.

3) Enter this seed code into either the Generator or P.C. Software an Anti-Code will be given.

4) Ask the customer to enter this Anti-Code. The system is now reset.

Note: Service Timer Lockout will have been indicated to the user via Flashing tamper LED. Two weeks notice would have been given prior to Lockout. Resetting this via Anti-Code will give another two weeks service. A service visit should be arranged and the Service Timer (option 30) should be re-programmed to the required number of weeks.

Resetting to Factory Defaults

If required the unit may be reset to factory defaults. It should be noted that if the engineer code begins with a 9 it will not be defaulted.

1) Remove all power from the system.

2) Wait 10 seconds.

3) Re-Apply power to the system.

4) As soon as all the LEDs illuminate during this power-up enter 1 4 7 **No**.

Fault	Action
Control Panel will not power up from the mains supply	Check / Replace fuse in fused spur or mains connection block. Also check all connections for trapped insulation.
Display shows zone fault and panel will not set after the exit time has expired.	Remove zone wires from the problem zone at the control panel and replace with a link. Check if panel now sets. If all is O.K. the problem is external to the control panel. Check with a multimeter the continuity of the wires you removed from the zone. Also check that there is no short circuits between the zone wires and the tamper loop or the zone wires and 0v.
Control Panel gives tamper fault.	Check Lid tamper spring on control panel. Link out the tamper loops (bell & global) to determine what tamper loop the fault is on. If all is O.K with links in place the problem is external to the panel. Using a multimeter check for continuity and also short circuits to other cores in the same cable. Also check that the service timer has not expired.
Tripping a detector does not cause an alarm and is not registered at the control panel.	Check for short circuits on the zone wiring. If two detectors are fitted to the same zone try tripping both of them at the same time, if the zone activates when this is done the alarm contacts of the detectors have been wired in parallel when they should be wired in series.
External Sounder does not sound.	Use a multimeter or small buzzer across the Bell +&- terminals to determine if the control panel is triggering the bell. If all is O.K check the operation of the sounder by wiring it to the system battery.
External Sounder rings without the control panel triggering it.	Disconnect the Nicad battery from the SAB of the sounder. Check to see if the hold off voltage is present at the sounder, if not check/replace the control panel fuse. If fuse is O.K check hold off voltage at the control panel. If hold off voltage is O.K check/replace the wiring to the bell.
Bell Box will not sound after first power up.	Some Bell Boxes require all tampers to be closed before they will sound. Close all tampers and retry.

Trouble Shooting

Fault	Action
Tamper is not tripped when a detector cover is removed.	Check to see if all tampers are wired in series. If detector tampers have been wired in parallel they will all have to be removed before the tamper would trigger. Check for short circuits that may occur through staples piercing cables.
Detectors false alarm.	Check that the position of the detectors is in accordance with the manufacturers recommendations. In the case of a PIR ensure that the unit is not facing a window or is situated in a draughty location. In the case of a contact check the gap between the two halves and that there is no excessive movement in the protected item. In the case of a shock sensor ensure it is not bridging any joints. Check cable runs to ensure that they are not running parallel to any mains wiring (see good wiring practice).
Engineer and/or User codes have been forgotten.	The panel may be reverted to factory defaults (see Resetting to Factory Defaults). If the engineer code has been programmed with 9 as the first digit it will not be defaulted. In this case the unit must be returned to the factory.
I got confused whilst programming and don't know what settings have been programmed.	In this situation we would recommend that you revert to factory defaults.
I have various problems and think the control panel is faulty.	This is rare, the majority of faults are usually external to the control panel. If you think the panel is faulty please remove all the wiring from the panel and replace all the factory fitted links then check the panel again.

Power Input	230v a.c +/- 10% @50Hz
No. of Zones	CP7 = 7 CP8 = 8
Max Loop Resistance	2K Ohms
Loop Delay Time	300 milliseconds
Fuses	
Mains Fuse	200mA slow blow
F2 Misc Fuse	250mA quick blow
F1 System Fuse	1A quick blow
Low Voltage Output	13.8v (typical) Regulated
Power Supply Rating	1A
Battery Sizes	12v 1.2Ah, 2.0Ah, 3.0Ah & 7.0Ah
Quiescent Current	
Control Panel	50mA
RKP	40mA
Complies With	BS 4737 part1 CE Tested
Conforms With	EMC Directive 89/336/EEC LVD Directive 73/23/EEC
Log Size	80 Events (accessed via Engineer Code)
Default Codes	
Engineer	1234
Master User	5678
Number of Codes	1 Engineer 9 Users on preset levels
Display Type	LED
Method of Operation	Remote Keypad(s)

Customer Name	Customer Address
Tel No:	
Fax No:	
Installation Date	Installing Engineer(s)
Control Panel Location	RKP Location(s)
Zone 1 Location	Zone 5 Location
Zone 2 Location	Zone 6 Location
Zone 3 Location	Zone 7 Location
Zone 4 Location	Zone 8 Location (CP8 only)

Programmed Settings

Option No.	Setting	Option No.	Setting
11		21	
12		22	
13		23	
14		24	
15		25	
16		26	
17		27	
18		28	
19		29	
20		30	

Notes

Supplied By:-

eurösec

Technical Helpline
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