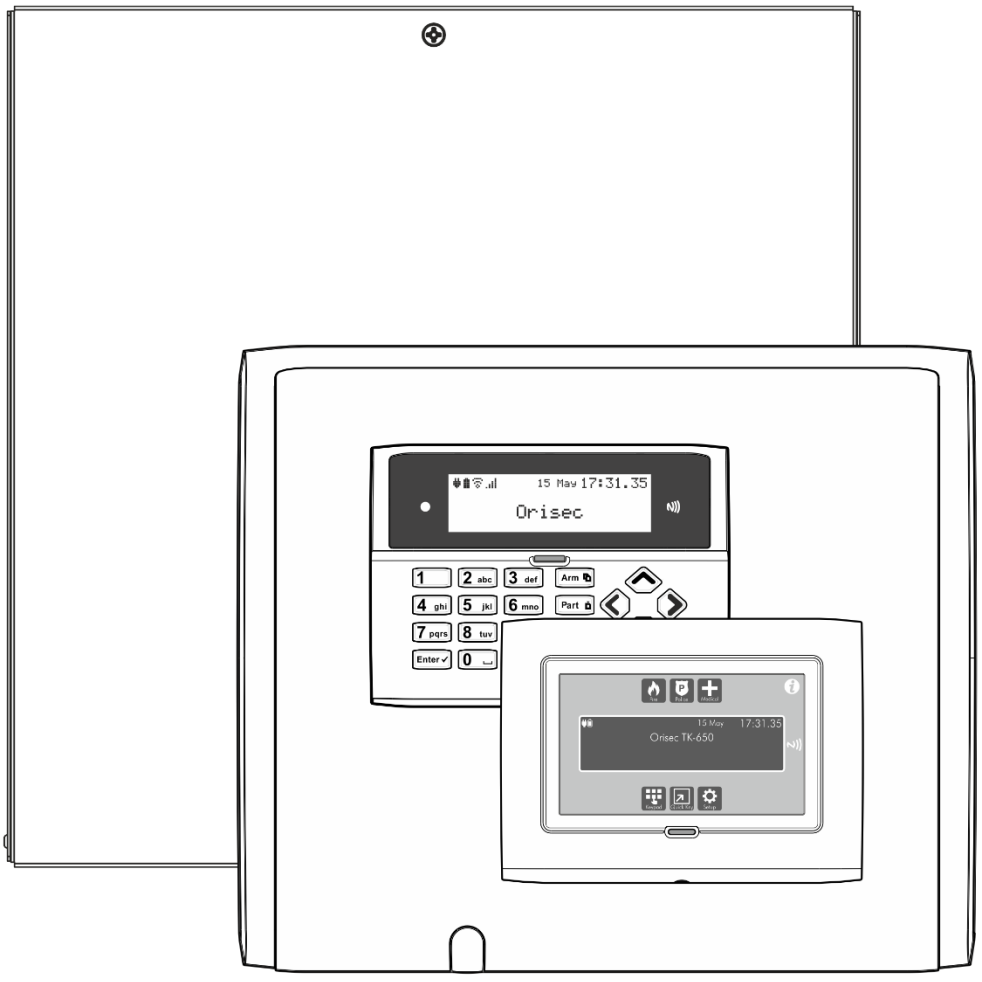
CP-30, CP-50, CP-100 & CP-200

Installation Manual



Designed and Manufactured
in the United Kingdom

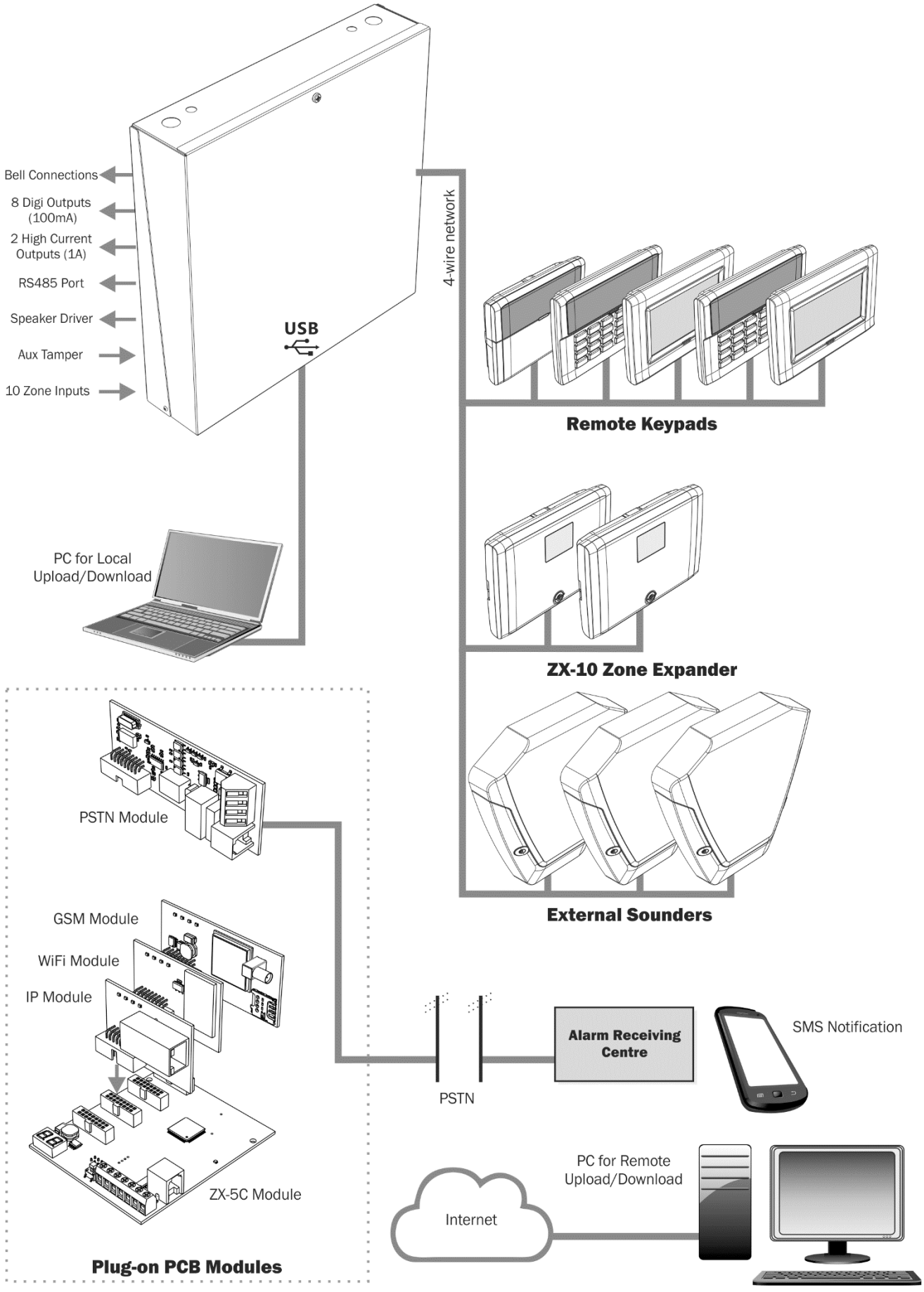
www.orisec.co.uk

Notes

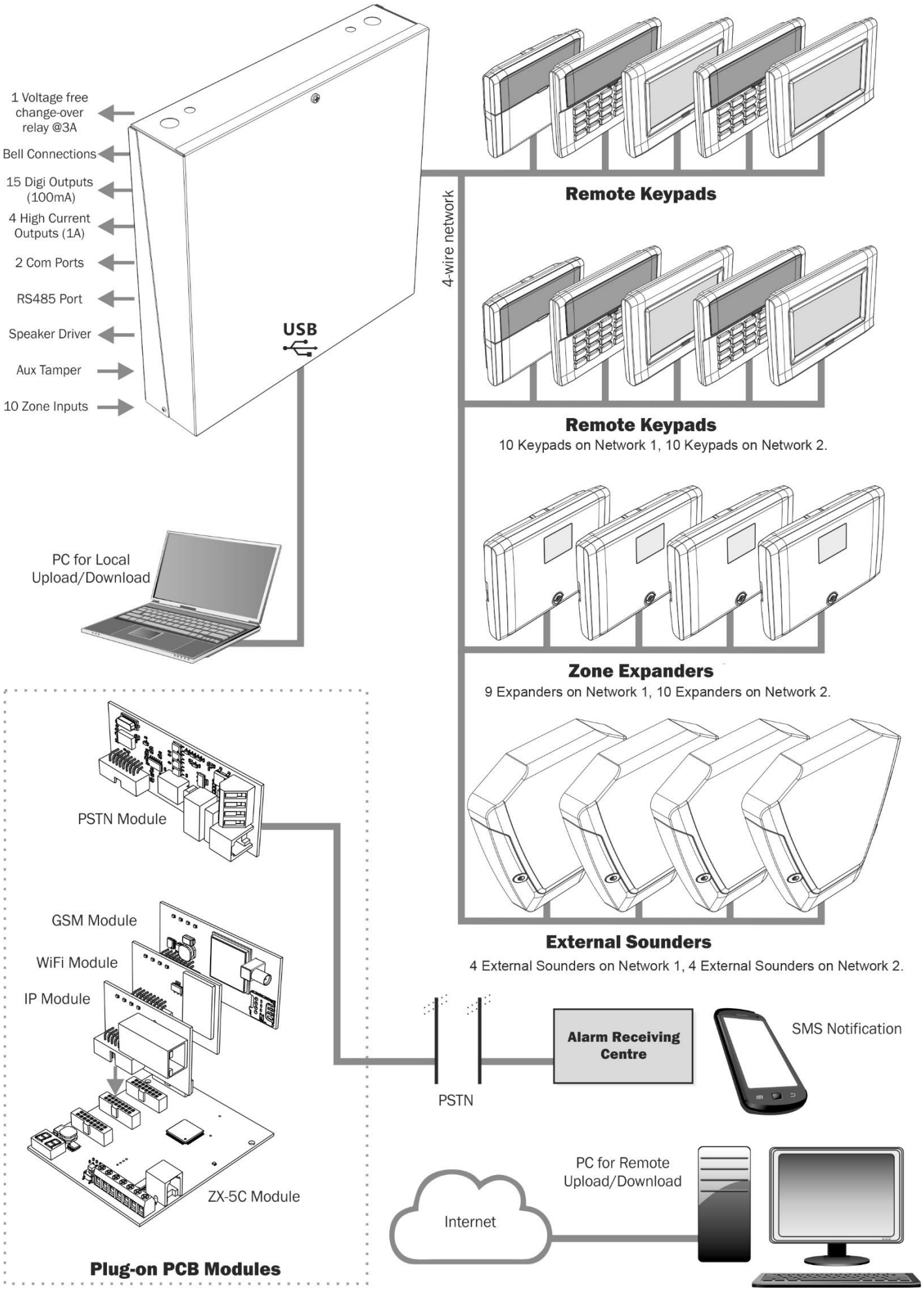
Contents

1. System Overview

CP-30 System Configuration



CP-50, CP-100 & CP-200 System Configuration



Control Panels

CP-30

- 10 fully programmable on-board zones
- Expandable to 30 zones via expanders and keypads
- Supports Orisec Wireless
- Supports 3 Orisec external sounders via the network
- Plug on PSTN module support
- One 4-wired network data bus
- Support for a maximum of 5 keypads and 2 zone expanders
- 3 true areas with 3 part arms
- 30 programmable user codes
- 1250 event log
- 8 digi outputs (100mA)
- 2 high current outputs (1A)
- 2.75A power supply
- EN501-3-1 Grade 2/3 compliant

CP-50

- 10 fully programmable on-board zones
- Expandable to 50 zones via expanders and keypads
- Supports Orisec Wireless
- Supports 4 Orisec external sounders via the network
- Plug on PSTN module support
- One 4-wired network data bus
- Support for a maximum of 10 keypads and 4 zone expanders
- 5 true areas with 3 part arms
- 50 programmable user codes
- 1250 event log
- 15 digi outputs (100ma)
- 4 high current outputs (1A)
- 1 fully programmable voltage free relay (3A)
- 2.75A power supply
- EN501-3-1 Grade 2/3 compliant

CP-100

- 10 fully programmable on-board zones
- Expandable to 100 zones via expanders and keypads
- Supports Orisec Wireless
- Supports 4 Orisec external sounders via the network
- Plug on PSTN module support
- One 4-wired network data bus
- Support for a maximum of 10 keypads and 9 zone expanders
- 10 true areas with 3 part arms
- 100 programmable user codes
- 1250 event log
- 15 digi outputs (100ma)
- 4 high current outputs (1A)
- 1 fully programmable voltage free relay (3A)
- 2.75A power supply
- EN501-3-1 Grade 2/3 compliant

CP-200:

- 10 fully programmable on-board zones
- Expandable to 200 zones via expanders and keypads (Network 1&2)
- Supports Orisec Wireless
- Supports 8 Orisec external sounders via the Network (1&2)
- Plug on PSTN module support
- One 4-wired network data bus
- Support for a maximum of 20 keypads and 19 zone expanders
- 20 true areas with 3-part arms
- 200 programmable user codes
- 1250 event log
- 15 digi outputs (100ma)
- 4 high current outputs (1A)
- 1 fully programmable voltage free relay (3A)
- 2.75A power supply
- EN501-3-1 Grade 2/3 compliant

Keypads

Touch keypads (TK-650)

- Full digital touchscreen keypad
- QWERTY keyboard
- 3 fully programmable inputs/outputs (100mA -ve applied)
- Fully adjustable backlight
- Built in piezo sounder
- 16 Ohm speaker output
- Micro USB support for uploading installer logos
- NFC reader
- Light sensor support
- Installer customisable colour themes
- Screen Clean Mode & Screen Blanking
- Grade 3

Keyed keypads (RK-500, RK-550, RK-700 & MK-700)

- 128-character LCD display
- 3 fully programmable inputs/outputs (100mA -ve applied)
- Fully adjustable backlight
- Built in piezo sounder
- 16Ohm speaker output
- NFC reader
- Light sensor support
- Grade 3

Keyed keypads (RK-400, RK-450)

- 128-character LCD display
- 1 fully programmable input/output (100mA -ve applied)
- Detachable Hinged Cover
- Built in piezo sounder
- Optional NFC reader
- Grade 2

Expanders

ZX-5C

- PCB module plugs onto the control panel PCB
- 5 Zone inputs / programmable outputs (100mA)
- 4 slots for Orisec communication modules
- X-10 port for automating X-10 devices via the XM10U/E
- Can be used to backup/ restore panel information
- 7-segment display for status and diagnostics

ZX-10 & ZX-10-PLUS

- 10 fully programmable zones
- 10 fully programmable outputs (8 at 100mA, 2 at 1A)
- 16 Ohm speaker output
- 7-segment display
- Independent network IN and network OUT terminals
- RJ45 Compatibility
- Built in piezo sounder
- Optional larger housing (ZX-10-PLUS)

ZX-10-E & ZX-10-E-PLUS

- 10 fully programmable zones
- Optional larger housing (ZX-10E-PLUS)
-

PZX-10

All the features of the ZX-10, plus the following:

- 2.75A intelligent power supply
- Up to 17Ah 12V battery support

W-XP

- Enables use of wireless devices on the system.
- 1 fully programmable Voltage free relay (3A)
- 1 fully programmable output (100mA)
- 16 Ohm speaker output
- 1 Tamper Return terminal
- 7-segment display
- Independent network IN and network OUT terminals
- RJ45 Compatibility
- Built in piezo

W-XP-R

- Enables use of wireless devices on the system.
- Wireless repeater mode
- Wireless bridge mode

Communication modules

CM1-PSTN (PSTN Module)

- PCB module plugs onto the control panel PCB
- Alarm reporting via telephone network (PSTN)
- SMS alarm reporting (BT networks only)
- Speech dialler
- Remote control via touch tone telephone
- Answer machine support
- Voice protocol support

CM1-IP (Ethernet Module)

- PCB module plugs onto ZX-5C
- UDL & smartphone app via LAN/WAN
- CSL Connected

CM1-WIFI (Wi-Fi Module)

- PCB module plugs onto ZX-5C
- UDL & smartphone app via wireless LAN/WAN
- CSL Connected

CM1-GSM (GSM Module)

- PCB module plugs onto ZX-5C
- UDL & smartphone app via GSM network
- CSL Connected
- Alarm reporting and SMS

2. Installation

Installation Sequence

It is strongly advisable to read this section prior to installation.

1. Map the area
Draw a map of the property and include where each component of the alarm system is to be fitted.

2. Mount the Control Panel
Mount the control panel on an even surface and close to an un-switched AC power source. Wire the control panel before applying AC to the panel or fitting the battery.

3. Install the Remote Keypads
Mount the remote keypads at locations that are easily accessible during entry and exit from the protected area. Connect the remote keypads to the control panel.

4. Zone Wiring
Install detection devices and connect to the applicable zone (E.g. control panel or expander.)

5. Other Wiring
Complete all other wiring including external/internal sounders/ Ethernet cables and telephone line connections.

6. Apply Power to the Control Panel
Once steps 1 to 5 are completed, apply power to the control panel. First, connect the red battery lead to the positive terminal and the black lead to negative. Then, connect the AC.

7. Program the System
If available use the Orisec UDL software package to program the system, if this is not available program this system in accordance with the procedures in the next section.

8. Test the system
Perform a thorough test of the alarm system, checking that the zones, bell and communications are all functioning correctly.

Control Panel

Mounting

Mount the control panel on a flat, plumb wall using at least three appropriate screws. The rear casing has been designed with a central key-hole slot so that mounting is possible without removing the Printed Circuit Board (PCB).

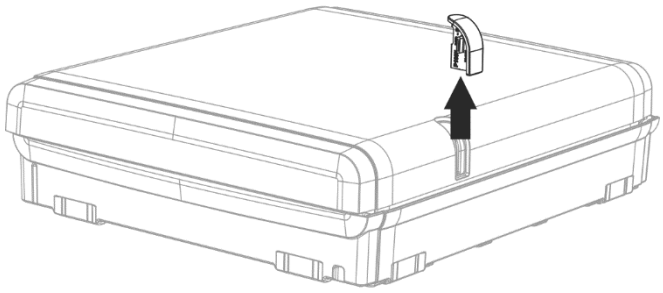
The angled slot in the lower corner has been provided to allow the panel to be levelled easily. If the PCB must be removed, carefully pull back the two front PCB securing clips, lift the front of the PCB and slide it downward. To replace the PCB simply reverse the above procedure.

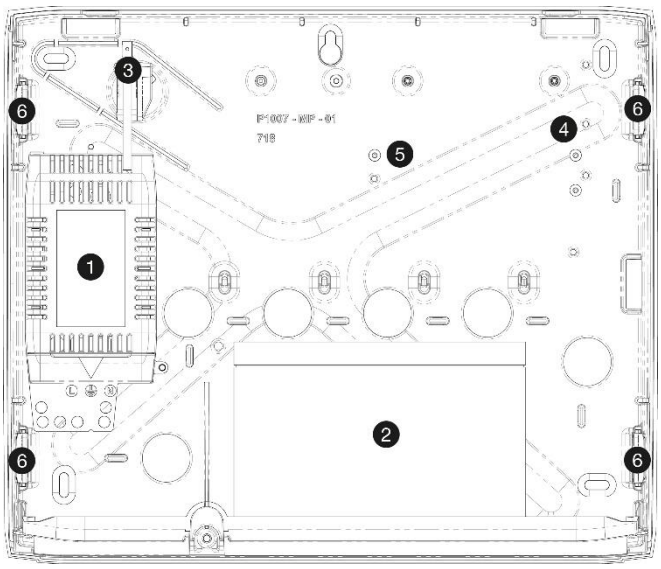
It is essential to ensure that none of the fixing slots or cable entries are accessible after fixing.

Mains cabling must be secured (e.g. with a cable tie) to one of the anchor points provided.

Polymer Panel

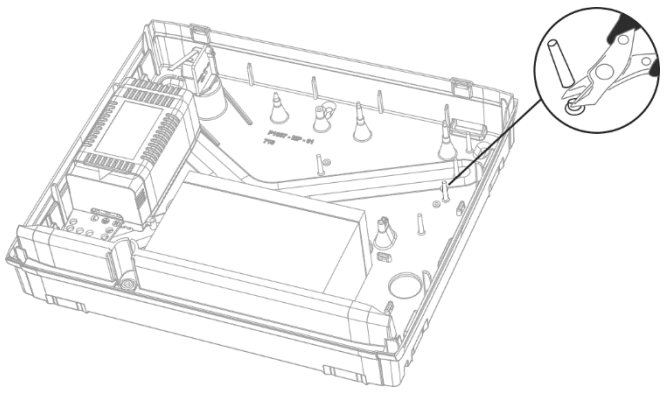
Removing the polymer panel lid





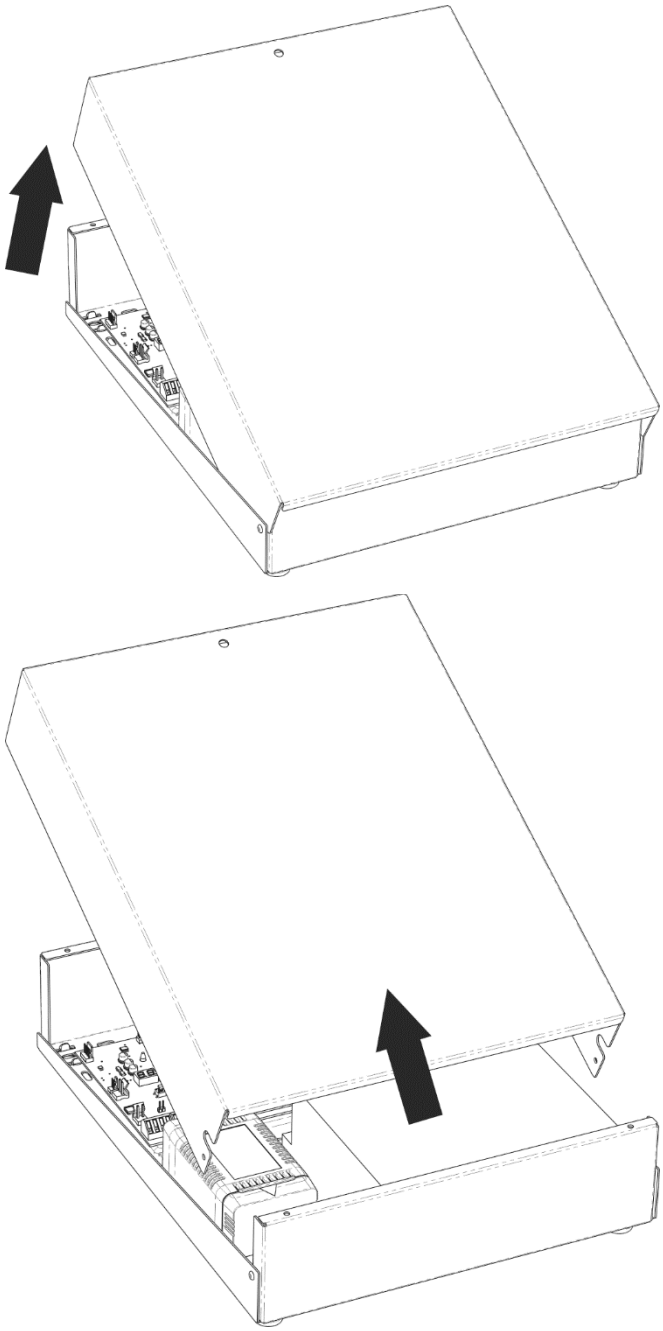
1. PSU location
2. Battery space (up to 7Ah)
3. Tamper switch
4. WebWayOne Nano fixing (See below)
5. CSL Digi air fixing
6. Removable cable entry shutters

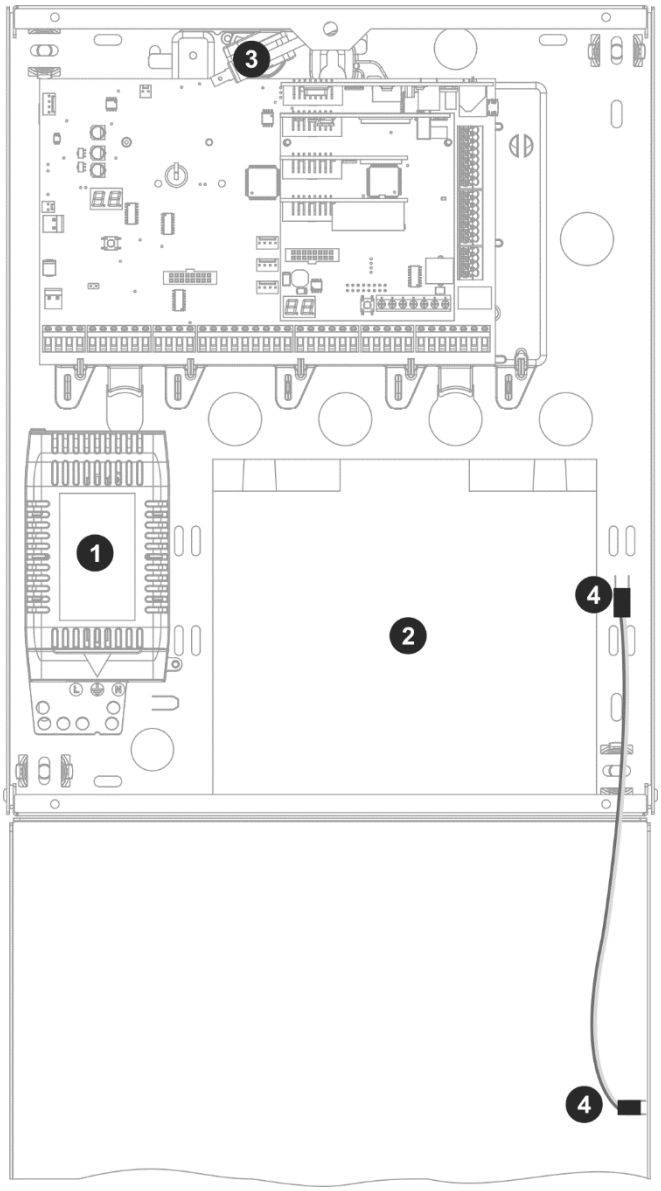
Remove pillar to fit WebWayOne Nano



Small metal panel

Removing the small metal control panel lid

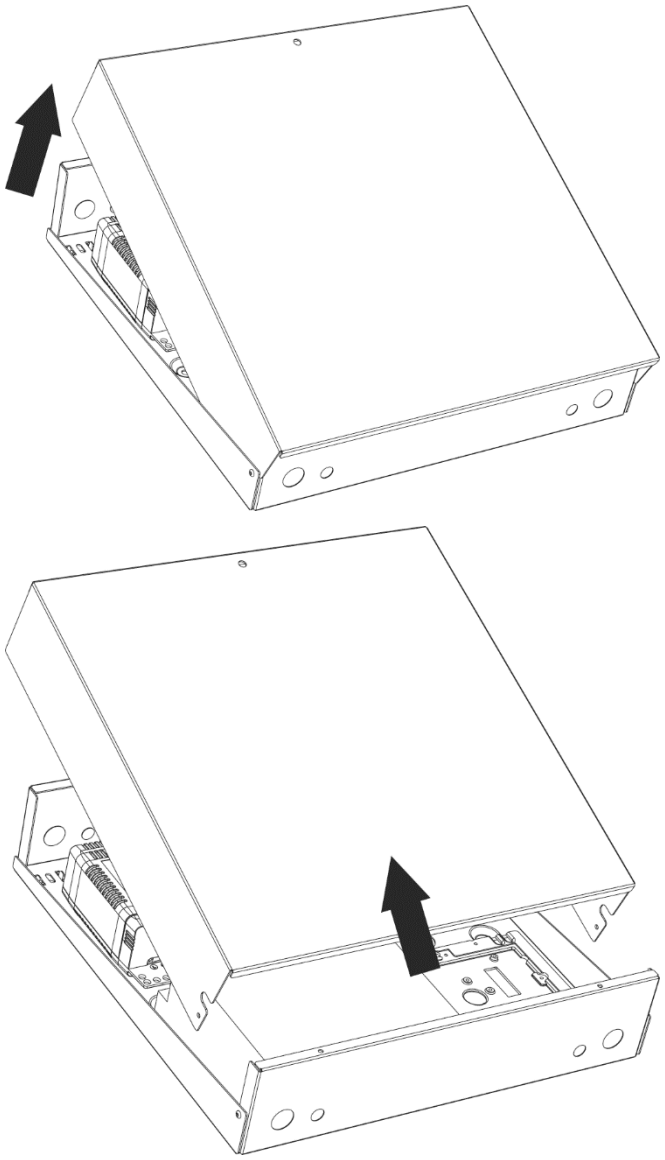


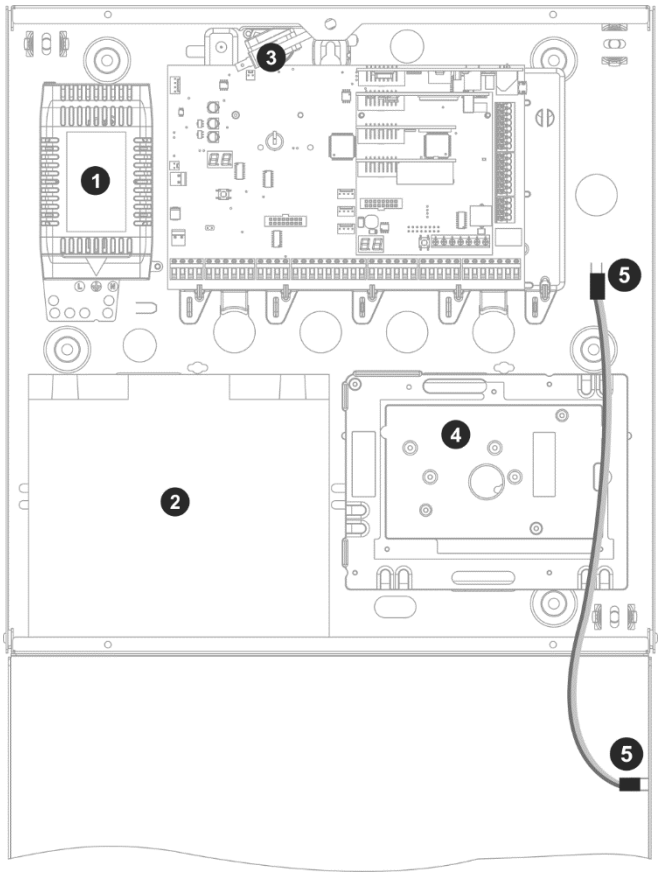


1. PSU location
2. Battery space (up to 17Ah)
3. Tamper switch
4. Earth tag for lid connector

Large metal panel

Removing the large metal control panel lid

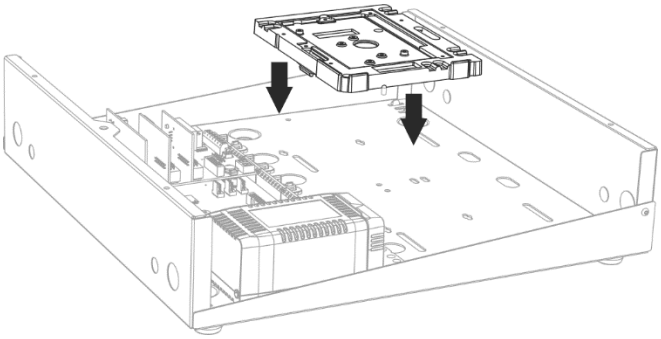




1. PSU location
2. Battery space (up to 17Ah)
3. Tamper switch
4. Third party communication gantry (See below)
5. Earth tag for lid connector

Communication gantry

The communication gantry is clipped into the base as shown:



Wiring the Control Panel

WARNING: ELECTRICITY CAN KILL

Before connecting the control panel always disconnect the power supply at the consumer unit. Seek advice from a qualified electrician if in any doubt.

Only connect the mains supply to the switch mode power supply. Never connect the mains supply directly to the PCB.

The system installation must be carried out in accordance with the national safety standards, for example EN 60950: 1992.

Always refer to National Wiring Regulations when conducting installation.

An appropriate and readily accessible disconnection device (e.g. an un-switched 3 Amp fused spur) must be provided as part of the installation.

The disconnection device must not be connected by a flexible cable.

Where identification of the neutral in the mains supply is not possible, a two-pole disconnection device must be used.

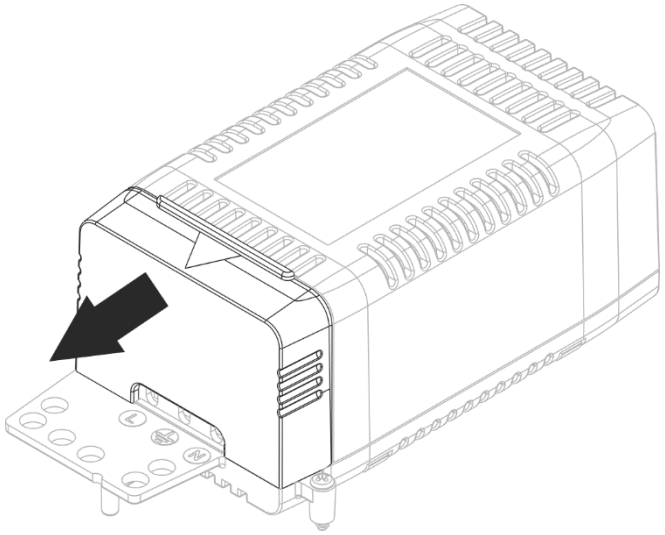
Use mains cable of adequate carrying capacity for the rated current (i.e. at least 0.75mm2).

For the metal control panel boxes both the back and the lid must be earthed. A cable is provided to connect the lid to the back.

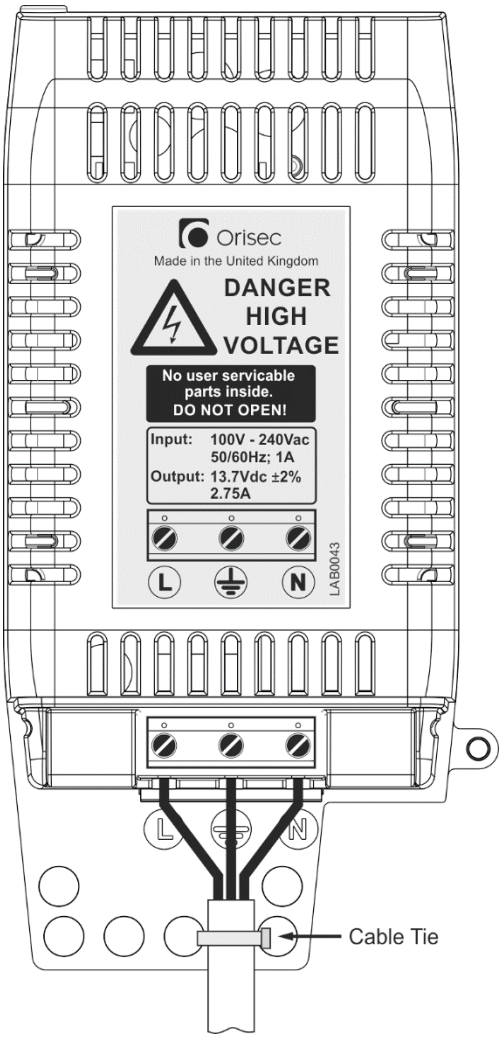
Mains Supply Connection

The AC Mains supply is connected to a 3-way terminal block which is housed in the Switch Mode Power Supply (SMPS).

1. Remove the cable access cover as shown:



2. Connect the mains supply cable and secure using a cable tie as shown:



3. Once the mains wiring is completed, replace the cable access cover.

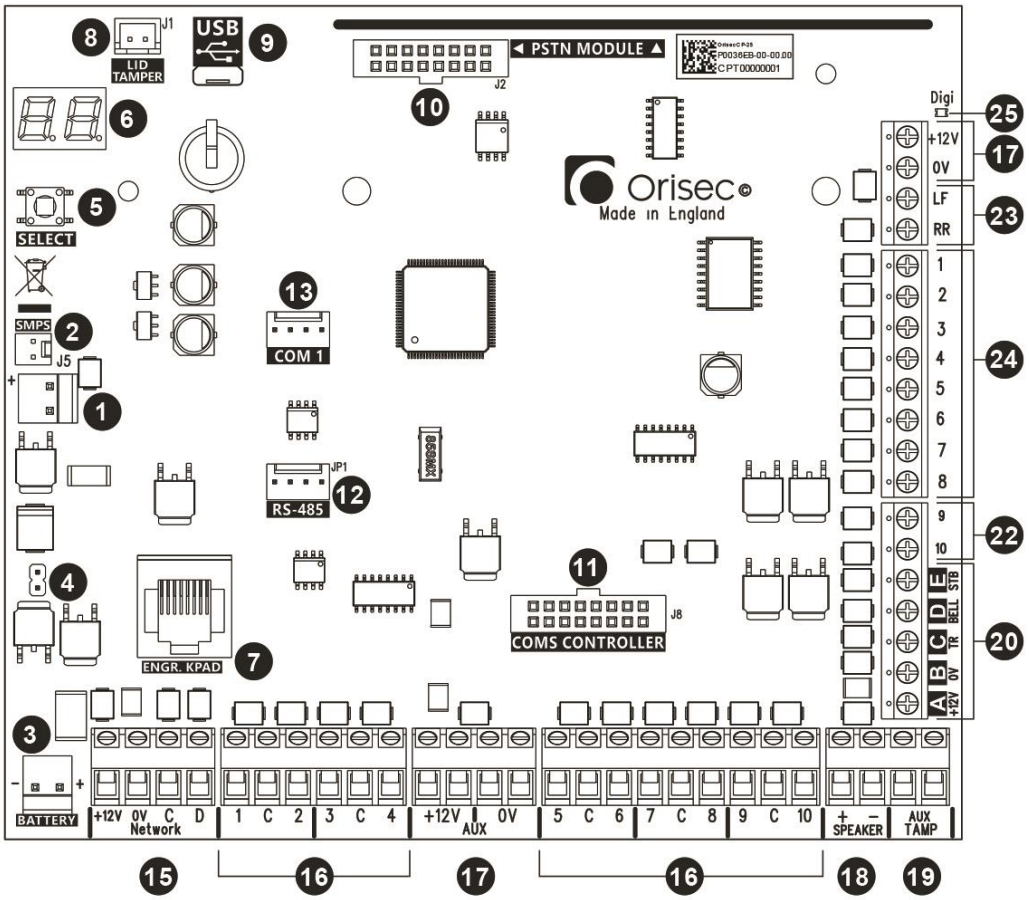
Standby Battery

The system must be fitted with a 12V battery to provide continued operation in the event of an AC mains failure. The maximum capacity of the battery will depend on the housing used:

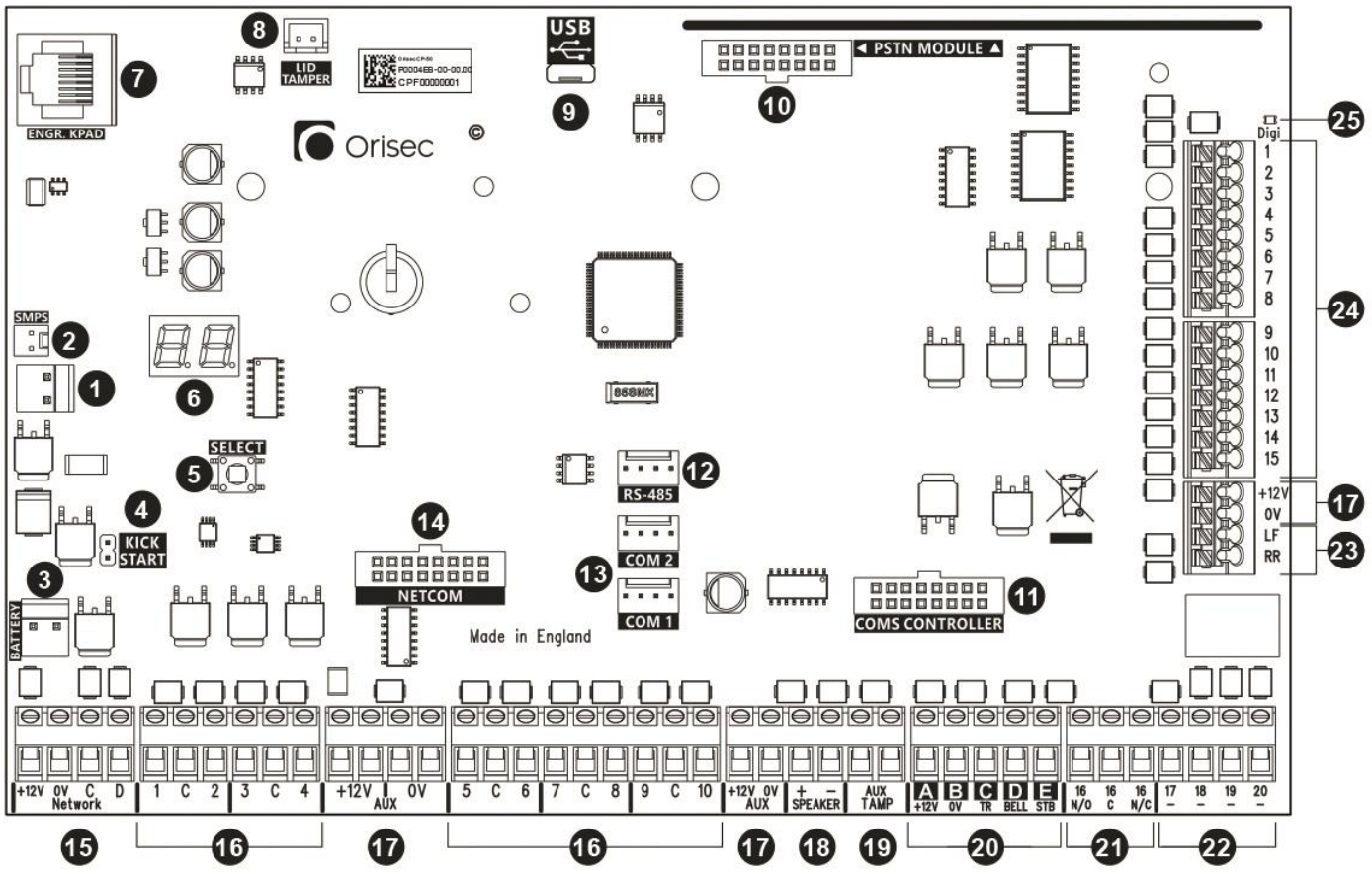
Housing	Max Battery Capacity
Polymer	7Ah
Small Metal	17Ah
Large Metal	17Ah

When connecting the stand-by battery ensure the red battery lead is connected to the positive terminal of the battery and the black battery lead is connected to the negative terminal.

CP-30 PCB Layout



CP-50, CP-100 & CP-200 PCB Layout



1. SMPS Power Connector
The red and black harness lead from the switched mode power supply module plugs onto this connector and provides 13.7VDC to power the system.

2. SMPS Monitor Connector
The yellow and white harness lead from the switched mode power supply module plugs onto this connector and provides full monitoring and control of the switch mode power supply.

3. Battery Connector
A 12V (up to 17Ah) rechargeable battery must be connected to this connector to provide continuous system operation in the event of mains failure. The battery charging circuit is protected by an auto resetting fuse (PTC) rated at 1.8A.

4. Battery Kick Start
When powering the system from battery only, the 'Kick-Start' pins must be momentarily shorted together with a plain blade screwdriver or similar, to kick start the power supply into operation.

5. Select button
The select button will allow for local diagnostics via the 7-segment display. For full information on the select button please see '7-Segment display & Select button' on page 29.

6. 7-Segment display
The 7-segment display normally shows the seconds from the real-time clock. When the engineer's mode is selected the control panel software version is displayed. Other diagnostic information can be displayed, for full information please see '7-Segment display & Select button' on page 29.

7. Engineer's Keypad Connector
This RJ-45 connector can be used to connect an engineer's keypad or it can be used as an alternative to the terminal block network connections (15).

8. Lid Tamper
The levered micro switch is plugged into this connector and provides both front cover and removal from mounting tamper detection.

9. USB Connection
A micro USB port that can be used for local connection to Orisec UDL and flash updating software from a Windows PC.

10. PSTN Module
The optional Orisec PSTN module is plugged onto this connector to provide ARC signalling and personal notifications, see page 26 for further details.

11. Communication Controller Module
The optional Orisec ZX-5C module is plugged onto this connector to provide 4 expansion slots for communication modules, X-10 support and an additional 5 inputs/ outputs. The ZX-5C currently supported the GSM module, Ethernet module and Wi-Fi module, see page 26 for further details.

12. RS-485
This port is used by 3rd party devices that require an RS-485 connection for communication, see page 57 for details on RS-485 port options.

13. Communication Ports 1 and 2
The CP-30 provides one serial port (COM1) and the CP-50, CP-100 & CP-200 provides two (COM1 and COM2). Each port can be used by 3rd party devices that require TTL level serial communication, see page 57 for details on serial port options.

14. NX-1 Network Expander Slot
Enables the second Network on CP-200 when an NX-1 is connected.

15. Network Connections
The network terminals provide connections to the remote keypads and zone expanders. The + and – terminals provide power whilst the C and D terminals are the data signals. For the CP-50, CP-100 & CP-200 the Network output is protected by a software controlled resettable fuse (PTC) rated at a max of 2A, See page 39 for further information on programming 'Current Limits'. For the CP-30 the Network is protected by a fixed 1.1A PTC.

16. Zone Inputs 1 to 10
Detection devices such as movement sensors, vibration and door contacts are connected to the zone input terminals. There are several ways in which to wire a detection device, see 'Wiring Detection Devices' on page 22. Each zone is fully programmable, see 'Zone Programming' on page 31.

17. Auxiliary 12V
These terminals provide auxiliary power for detection devices that require 12V power, e.g., moment sensors. For the CP-50, CP-100 & CP-200 the auxiliary 12V output is protected by a software controlled resettable fuse (PTC) rated at a max of 2A. See page 40 for further information on programming 'Current Limits'. For the CP-30 the auxiliary 12V output is protected by a fixed 1.1A PTC.

18. Speaker
These terminals are used for driving 16Ω extension loudspeakers. See 'Loudspeaker Connections' on page 24 for wiring options.

19. Auxiliary Tamper
This set of terminals provide tamper monitoring for auxiliary equipment like power supplies and other devices. The auxiliary tamper can be enabled or disabled, see '' on page 39.

20. External Sounder Connections
These five terminals provide connections to one or more external sounder units, see page 25 for further details. For the CP-50, CP-100 & CP-200 the External Sounder 12V output is protected by a software controlled resettable fuse (PTC) rated at a max of 2A, See page 40 for further information on programming 'Current Limits'. For the CP-30 the 12V output is protected by a fixed 1.1A PTC.

21. Panel Output 16
Output 16 is a voltage free change-over relay rated at 3A. CP-50, CP-100 & CP-200 only.

22. High Current Outputs
The CP-50, CP-100 & CP-200 provide four 1A rated switched negative monitored outputs (Outputs 17 to 20). The CP-30 provides two (Outputs 9 and 10). The monitoring of each output can be enabled or disabled, see 'Monitor Outputs' on page 39. The output function is fully programmable, see 'Panel Outputs' on page 49.

23. Line Fault and Remote Reset
The Line Fault input is commonly used with stand-alone communicator modules for monitoring the telephone line. The Remote Reset input is used for resetting the system remotely. When 0V is applied, the system will perform a remote engineer's reset and clear any outstanding conditions.

24. Low Current Outputs
The CP-50, CP-100 & CP-200 provide fifteen 100mA rated switched negative outputs (Outputs 1 to 15). The CP-30 provides eight (Outputs 1 to 8. The output function is fully programmable, see 'Panel Outputs' on page 49.

25. Digi Status LED
If the optional PSTN module is fitted onto the control panel, dialling and communication status is indicated with this LED.

Connecting Devices to the Network

Before connecting a device to the control panel network, ensure all power has been isolated from the control panel (AC Mains & Battery). Do not continue if there is still power present on the control panel as this may damage the device or control panel and invalidate any warranty.

Keypads, expanders and Orisec external sounders connect to the same network terminals. These are located at the bottom left hand corner of the control panel and may be connected serially/daisy chain, in parallel/star, or any combination of the two.

Network Connections

The network is made up of four terminals incorporating power and data. To ensure correct operation, all four terminals on the device must be connected to the corresponding terminals on the control panel, or previous device. The table below shows each terminal and its description:

Terminal	Description
12V	+12V supply, fuse (PTC) protected
0V	0V supply
C	Clock
D	Data

Cable Type and Distances

For improved immunity to electrical noise, the use of screened 4 core cable is recommended. The screen should be twisted together and wired into the (–) terminal at the control panel only.

The maximum recommended distance for devices when using standard 7/0.2 alarm cable is:

- 500m for each branch when using the parallel/star configuration
- When using a series/daisy chain configuration the maximum distance will depend on the number of devices connected on the chain. The more devices that are connected, the shorter the distance to the last device, due to voltage drop in the cable. The table below shows the voltage drop along standard 7/0.2 alarm cable for different loads:

Current Drawn	Cable Length					
	10m	20m	30m	40m	50m	100m
60mA	0.10V	0.19V	0.29V	0.38V	0.48V	0.96V
80mA	0.13V	0.26V	0.38V	0.51V	0.64V	1.28V
100mA	0.16V	0.32V	0.48V	0.64V	0.80V	1.60V
120mA	0.19V	0.38V	0.58V	0.79V	0.96V	1.92V
140mA	0.22V	0.45V	0.67V	0.90V	1.12V	2.24V
160mA	0.26V	0.51V	0.77V	1.02V	1.28V	2.56V
180mA	0.29V	0.58V	0.86V	1.15V	1.44V	2.88V
200mA	0.32V	0.64V	0.96V	1.28V	1.60V	3.20V
220mA	0.35V	0.70V	1.06V	1.41V	1.76V	3.52V
240mA	0.38V	0.79V	1.15V	1.54V	1.92V	3.84V
260mA	0.42V	0.83V	1.25V	1.66V	2.08V	4.16V
280mA	0.45V	0.90V	1.34V	1.79V	2.24V	4.48V
300mA	0.48V	0.96V	1.44V	1.92V	2.40V	4.80V
320mA	0.51V	1.02V	1.55V	2.05V	2.56V	5.12V
340mA	0.54V	1.09V	1.63V	2.18V	2.72V	5.44V
360mA	0.58V	1.15V	1.73V	2.30V	2.88V	5.76V
380mA	0.61V	1.22V	1.82V	2.43V	3.04V	6.08V

Whichever method of wiring configuration is used, ensure that the voltage between the '+' and '–' terminals at each device is no lower than 10.5V when the system is running on the standby battery.

Overcoming Voltage Drop

There are three ways in which to overcome voltage drop:

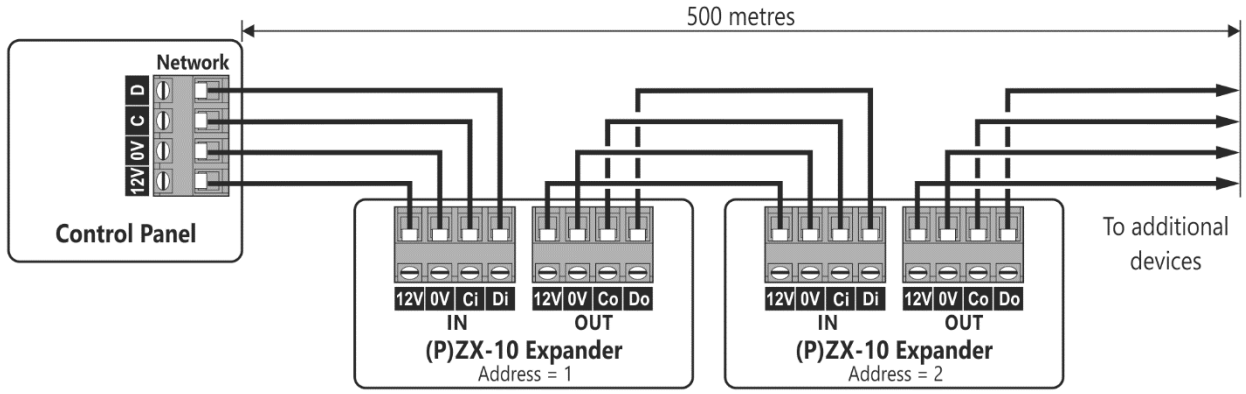
1. Use thicker lower resistance cable. Standard 7/0.2 alarm cable has a resistance of 8 Ohm per 100m.
2. Double up on the power connections. This will require using a 6 or 8-core cable rather than a 4-core cable.
3. Install an additional Orisec power supply such as a PZX-10 powered expander to power the device locally. See wiring example below.

Installing a 3rd Party Power Supply

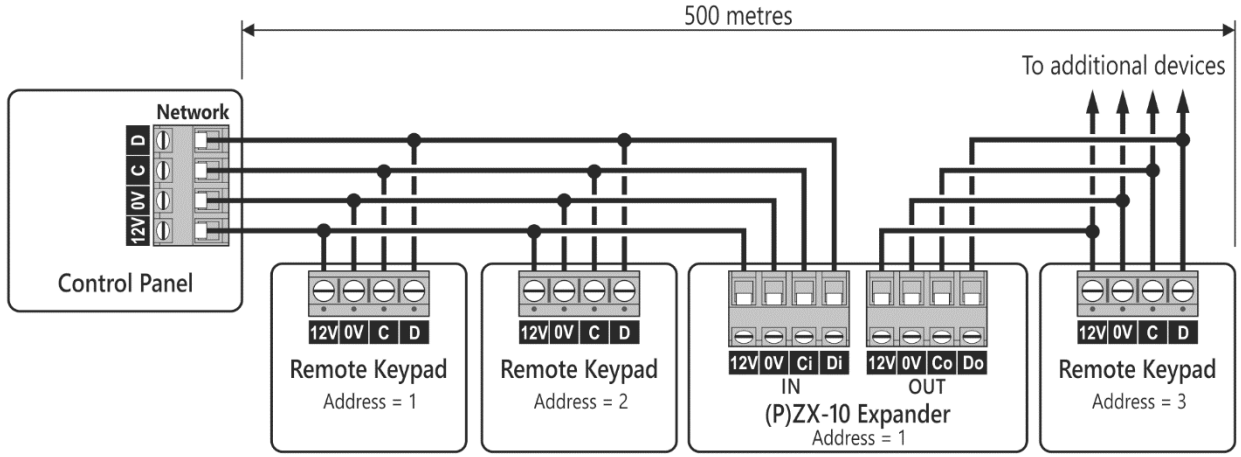
When a 3rd party power supply is installed, the 0V connections on the power supply must be connected through to 0V on the control panel and the +12V connection between the control panel and the device must be disconnected, see wiring example on next page.

Network wiring examples

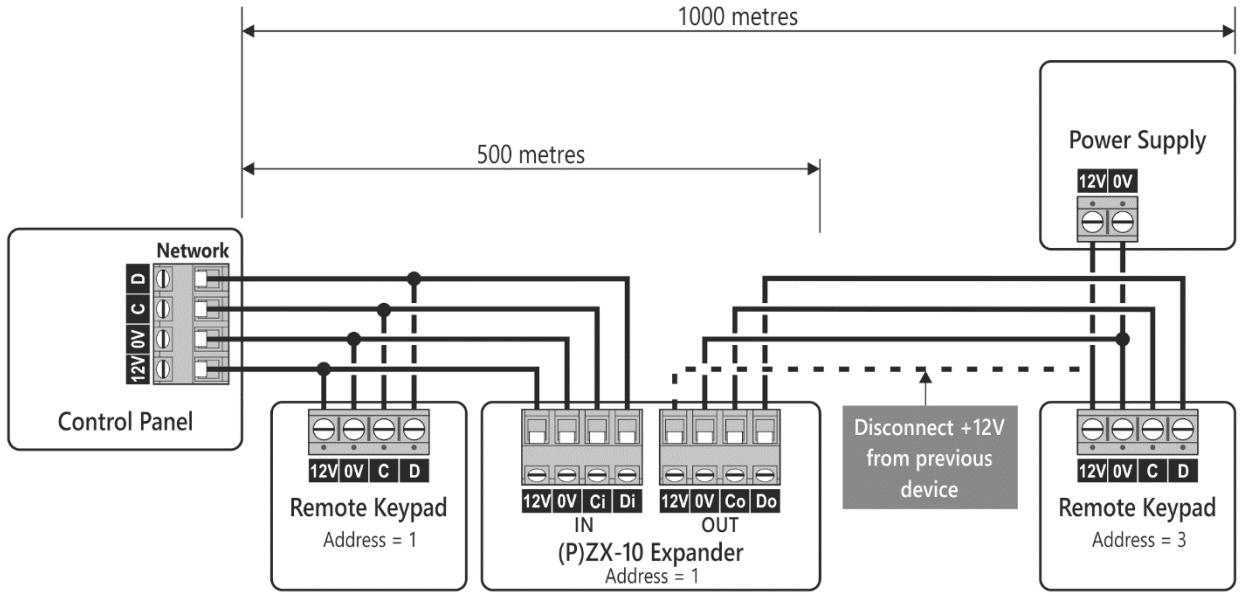
Zone Expander – with standard alarm cable



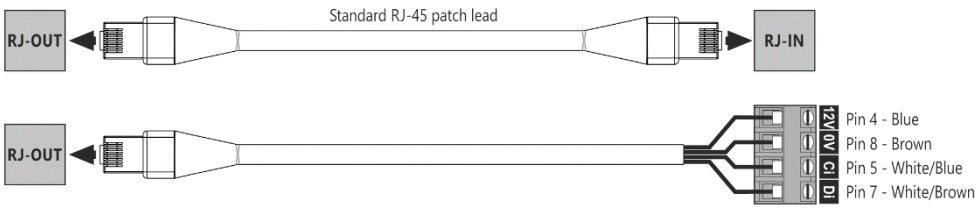
Zone Expanders and keypads – with standard alarm cable



Zone Expanders and Keypads – with a power supply



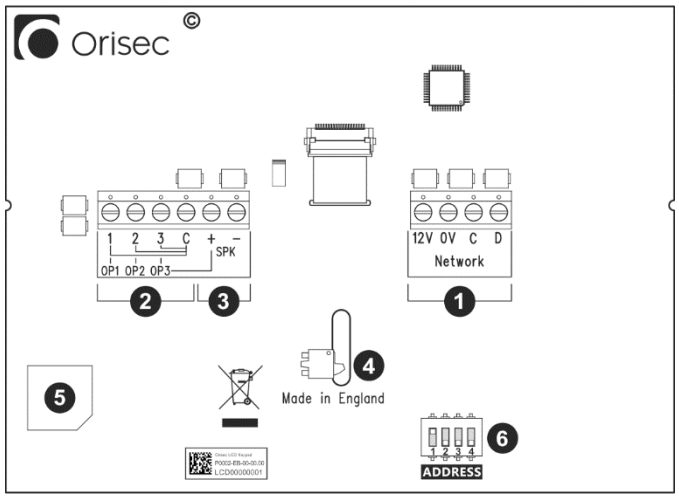
Using RJ-45 patch lead to connect devices



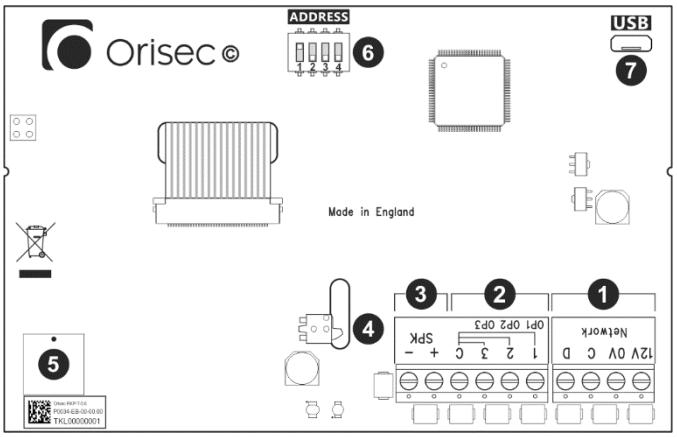
Remote Keypads

Keypad PCB Layouts

The PCB layout for the RK-500, RK-550, RK-700 and MK-700 is shown below:



The PCB layout for the TK-650 is shown below:



1. Network Connections
The Orisec Keypad's network connection.

2. Input / Output Terminals 1-3
These terminals can be as zone inputs (e.g. detection devices) or outputs. If using the one or more terminals as zone inputs each zone must be mapped to one of the available system zones, see 'Keypad Setup' on page 54. Once mapped each zone can be programmed for type, wiring, areas and options, see 'Zone Programming' on page 31.

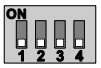
If using one or more terminals as outputs each output (rated at 100ma) can be programmed, see 'Keypad Outputs' on page 55.

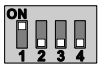
3. Speaker
These terminals are used for driving 16 Ohm extension speakers. Each type of tone can be enabled or disabled for each keypad, see 'Keypad Sounds' on page 55.

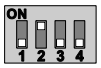
4. Tamper Switch
The patented combined lid, screw and wall tamper switch will signal a tamper condition if the front cover locking bolt is undone or if the front cover is removed. On Grade 3 installations it will also signal a tamper if the unit is removed from the mounting surface. The lid/screw tamper for each keypad can be enabled or disabled, see 'Keypad Attributes' on page 54.

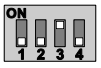
5. Piezo Sounder
The piezo sounder generates low level alarm tones, key press, and warning tones. Each type of sound can be enabled or disabled for each keypad, see 'Keypad Sounds' on page 55.

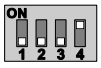
6. Address Selection
Each keypad must be assigned a different address using the Address selector. Set the DIP switch to the required position:

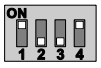

Address 0 (Software address)

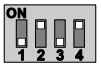

Address 1

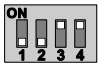

Address 2

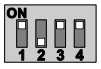

Address 3

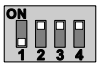

Address 4

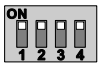

Address 5


Address 6


Address 7


Address 8

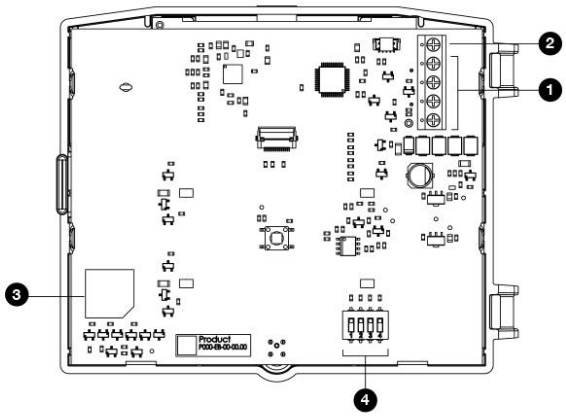

Address 9


Address 10

If the DIP switch is set as 0 (Software Address), the keypad address is defined by software utilising the local keypads menus. Please refer to the keypad installation manual for further details.

7. Micro USB Port
USB communication port that can be used to flash update the TK-650 firmware or edit the company logo screen.

The PCB layout for the RK-400 and RK-450 is shown below:



1. Network Connections
The Orisec Keypad's network connection.

2. Input / Output Terminal 1
See above.

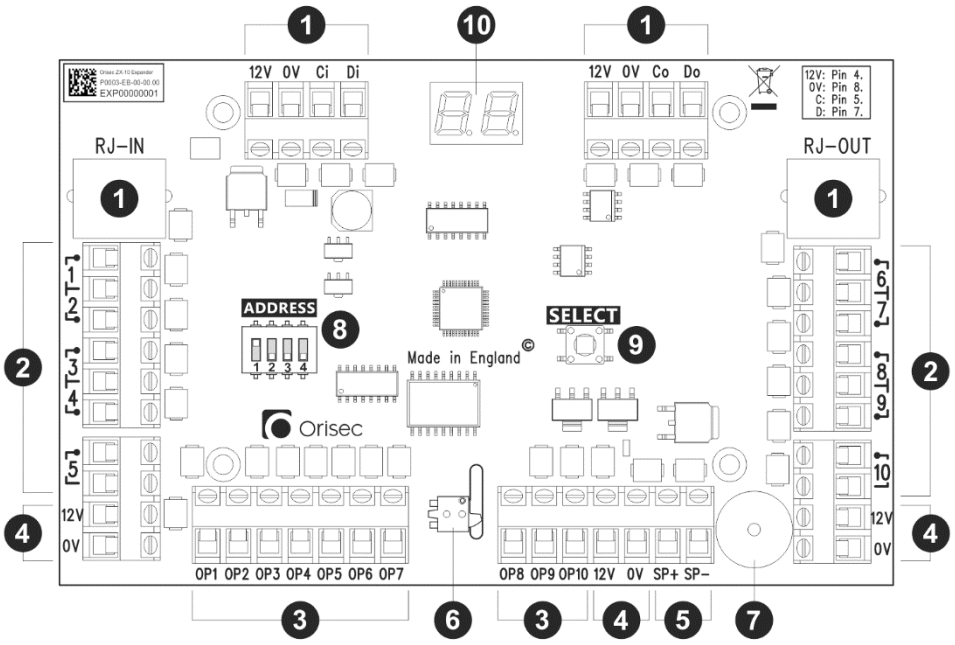
3. Piezo Sounder
See above.

4. Address DIP Switch
See above.

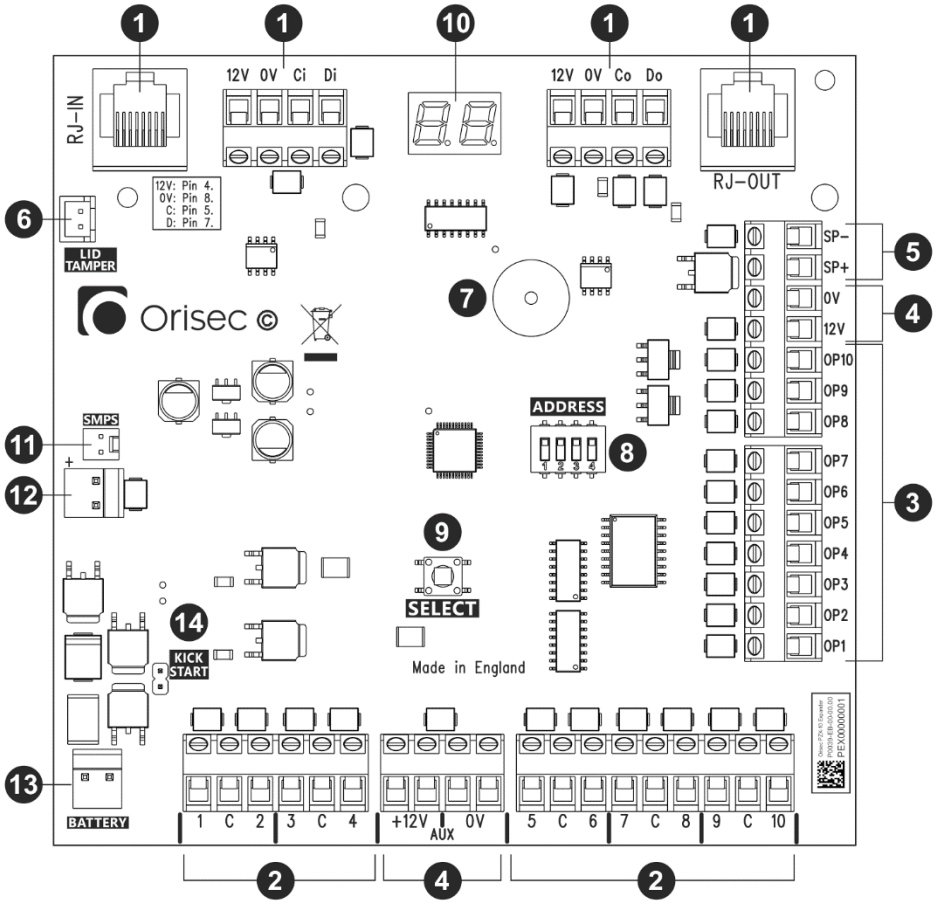
Zone Expanders

The ZX-10, PZX-10, W-XP & W-XP-R zone expanders can be connected to the network to provide additional zones and outputs. The PZX-10 has all the features of the standard ZX-10, with the addition of built in fully monitored power supply.

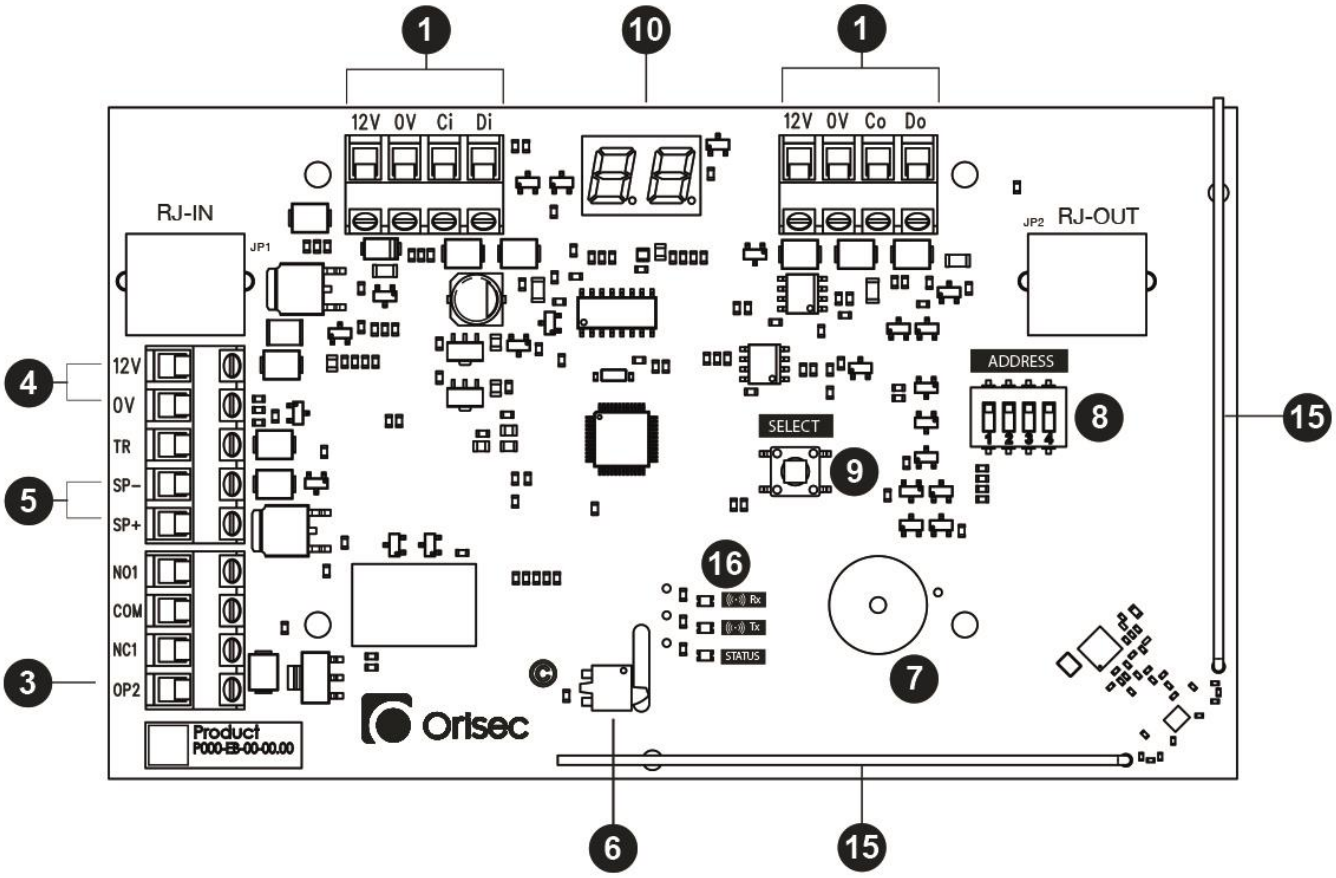
ZX-10 PCB Layout



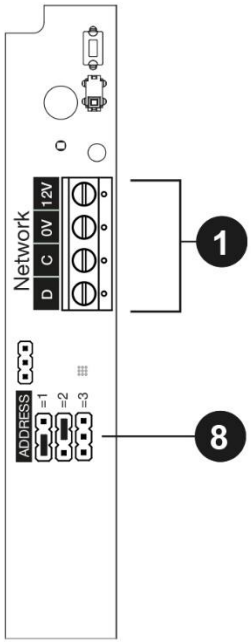
PZX-10 PCB Layout



W-XP PCB Layout



W-XP-R PCB Layout



1. Network Connections
The Orisec (P)ZX-10 and W-XP have Network In and Network Out connections both accessible via conventional terminal blocks and RJ-45 sockets. Any network devices connected to (P)ZX-10 or W-XP should be connected to the Network Out connections.

2. Zone inputs 1-10
Detection devices such as movement sensors, vibration and door contacts are connected to the zone input terminals. There are several ways in which to connect detection devices, see 'Wiring Detection Devices' on page 22. Each zone can be programmed for type, wiring, areas and options, see 'Zone Programming' on page 31.

3. Expander Outputs
These are fully programmable outputs. Each output can be programmed for a variety of functions, see 'Expander Outputs' on page 56.

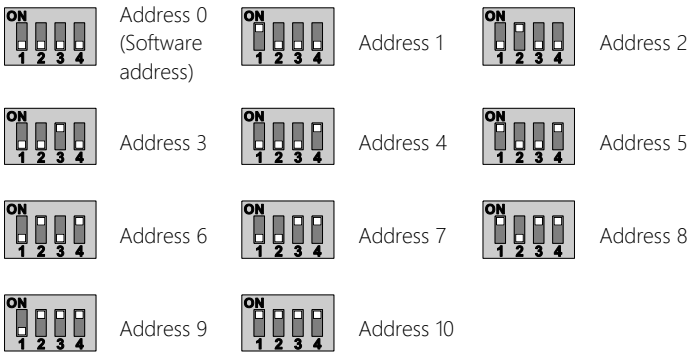
4. Auxiliary 12V
These terminals provide auxiliary power for detection devices that require 12V power, e.g., moment sensors. The auxiliary output is protected by a self-resetting fuse (PTC).

5. Speaker
These terminals are used for driving 16 Ohm extension speakers. Each type of tone can be enabled or disabled for each expander, see 'Expander Sounds' on page 56.

6. Tamper Switch
The patented combined lid, screw and wall tamper switch will signal a tamper condition if the front cover locking bolt is undone or if the front cover is removed. On Grade 3 installations it will also signal a tamper if the unit is removed from the mounting surface. The lid/screw tamper for each expander can be enabled or disabled, see 'Expander Attributes' on page 56.

7. Piezo Sounder
The piezo sounder generates low level alarm tones and warning tones. Each type of tone can be enabled or disabled for each expander, see 'Expander Sounds' on page 56.

8. Address Selection
Each (P)ZX-10 and W-XP and W-XP-R must be assigned a different address using the Address selector. On a W-XP-R the address selection is done via a jumper and only be addressed between 1 – 3. For the ZX-10 and W-XP Set the DIP switch to the required position:



If the DIP switch is set as 0 (Software Address), the expander address is defined by software utilising the 'Select' switch and 7-segment display. Please refer to the expander installation manual for further details.

9. Select button
The local select button will allow for local programming and addressing of the (P)ZX-10 or W-XP through the on-board 7-segment display. The 7-segment display will show the following, which are toggled via the select button:

- Address selection
- Current
- Zone Status
- Outputs
- Sounder Test
- CRC Error count
- Lost Packets

For full information on how to use all features of the select button please refer to the relevant expander installation manual.

10. Dual 7-segment display
The 7-segment display will show the expander address when the control panel is in engineer's mode and scrolls through the outer segments when operating normally. The display is also used in conjunction with the select button to perform local programming and diagnostics. For full information on how to use all features of the select button please refer to the relevant expander installation manual.

11. SMPS Monitor Connector
The yellow and white harness lead from the switched mode power supply module plugs onto this connector and provides full monitoring and control of the switch mode power supply. *PZX-10 only.*

12. SMPS Power Connector
The red and black harness lead from the switched mode power supply module plugs onto this connector and provides 13.7VDC to power the system. *PZX-10 only.*

13. Battery Connector
A 12V (up to 17Ah) rechargeable battery must be connected to this connector to provide continuous system operation in the event of mains failure. The battery charging circuit is protected by an auto resetting fuse (PTC) rated at 1.8A. *PZX-10 only.*

14. Battery Kick Start
When powering the system from battery only, the 'Kick-Start' pins must be momentarily shorted together with a plain blade screwdriver or similar, to kick start the power supply into operation. *PZX-10 only.*

15. Dual Antennae Diversity
The W-XP features two antennae in different orientations to improve signal reception.

16. Status LEDs
These indicate status, receive and transmit wireless packets.

NX-1 Network Expander

The CP-200 uses an NX-1 Network Expander to add a second network for larger installations.

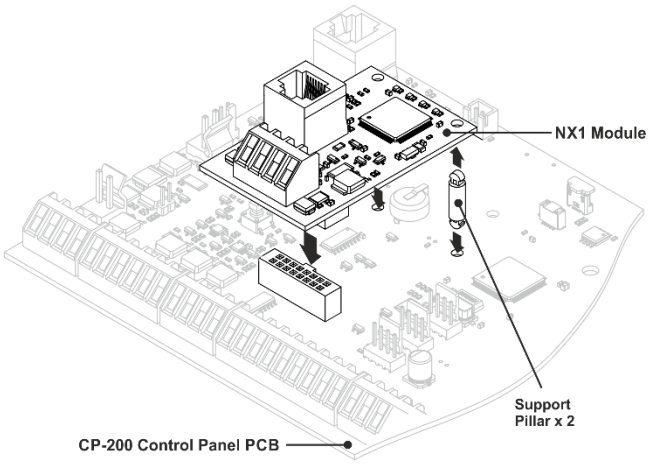
Network 1 on the main Control Panel enables up to:

- 9 x Expanders (Wired / Wireless)
- 10 Keypads
- 4 Networked Sounders

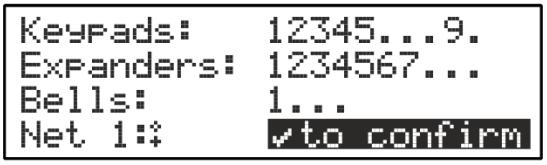
Network 2 on the NX-1 enables up to:

- 10 x Expanders (Wired / Wireless)
- 10 Keypads
- 4 Networked Sounders

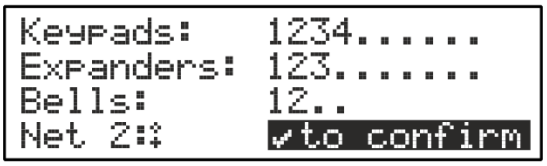
The NX-1 is plugged into the main control panel PCB as shown below.



To navigate between the two networks in the control panel menus press the Omit or Omit key



Press Omit to toggle Network 1 & 2



This is used in the following three menus:

- Confirm Devices
- Test & Diagnostics > Update Device Firmware
- Test & Diagnostics > View System Devices

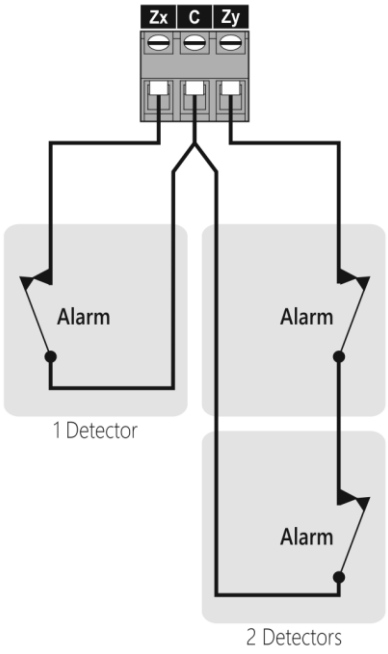
The CP-200 can accept up-to a maximum of 100 wireless devices and 100 wireless key-fobs.

Wiring Detection Devices

All zones can be wired using one of the following wiring options. The zone must be programmed to match the wiring used, see 'Zone Wiring' on page 32.

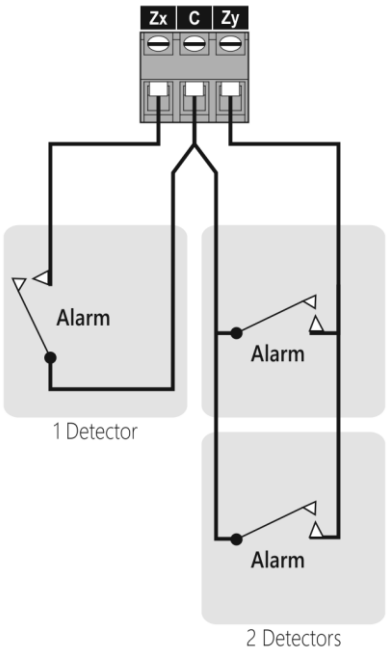
Normally Closed

This wiring configuration should be used when connecting detection devices that only have a normally closed alarm output. Connect the detector as shown below and ensure that the zone is programmed for "Normally Closed" operation.



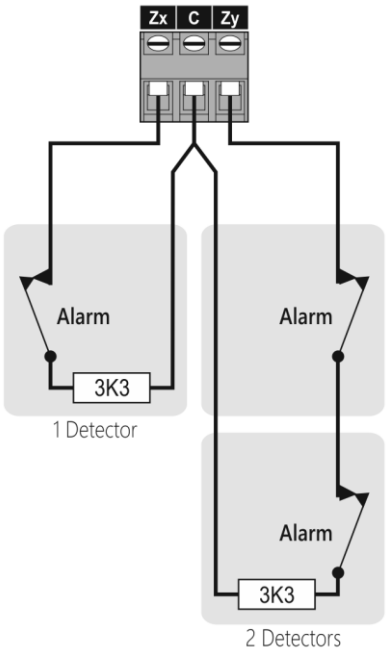
Normally Open

This wiring configuration should be used when connecting detection devices that only have a normally open alarm output. Connect the detector as shown below and ensure that the zone is programmed for "Normally Open" operation.



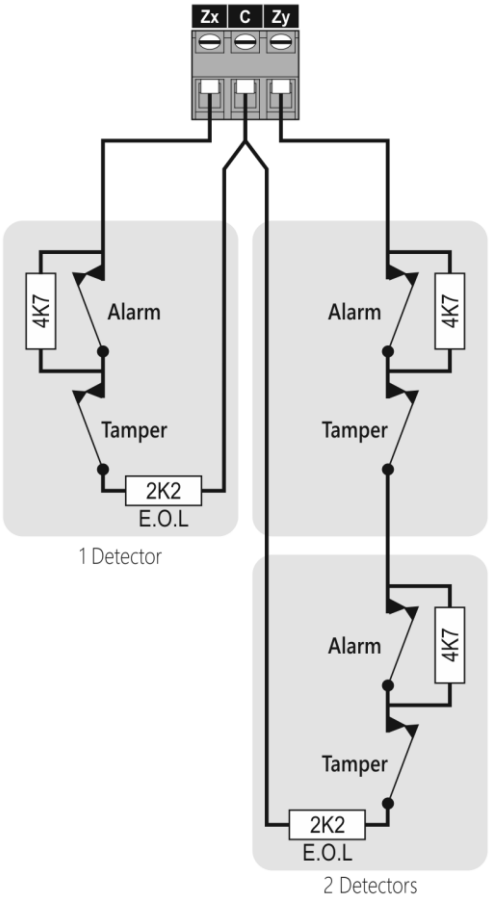
Single EOL - N/C

This wiring configuration should be used when connecting detection devices that only have a normally closed alarm output. Connect the detector as shown below and ensure that the zone is programmed for "Single EOL – N/C" operation.



Double EOL

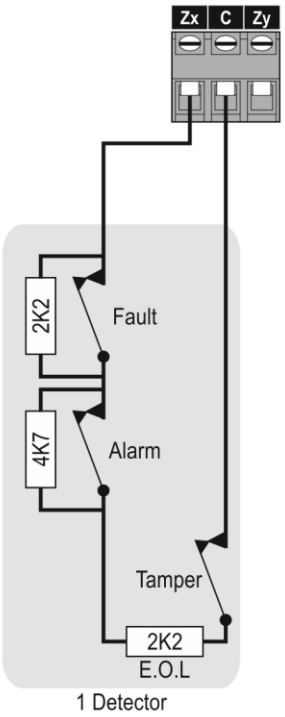
This wiring configuration should be used when connecting detection devices that have a normally closed alarm and tamper output. Connect the detector as shown below and ensure that the zone is programmed for "Double EOL" operation



A maximum of 3 detection devices per zone input if using Double EOL.

Triple EOL

This wiring configuration should be used when connecting detection devices that support triple EOL configuration, this will allow the system to monitor alarm, tamper fault and mask. Connect the detector as shown below and ensure that the zone is programmed for "Triple EOL" operation.



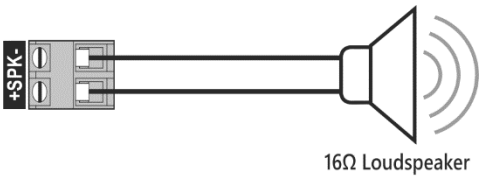
A maximum of 1 detection device per zone input if using Triple EOL.

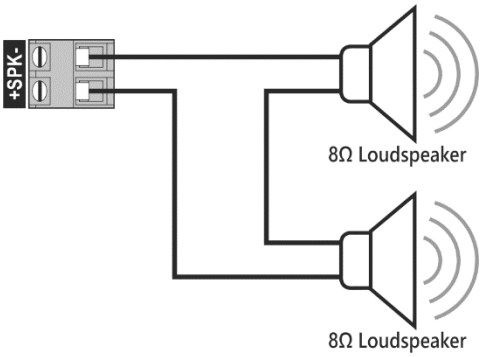
Alternative DEOL and TEOL Values

To aid system take overs, the zone wiring can be configured to use different EOL values from other manufacturers. Connect the detector as shown above and ensure that the zone is programmed for the relevant EOL/Alarm/Fault values, see page 32.

Loudspeaker Connections

The control panel, keypads and zone expanders have a loudspeaker output suitable for driving one 16 Ohm or two 8 Ohm wired in series as shown below:



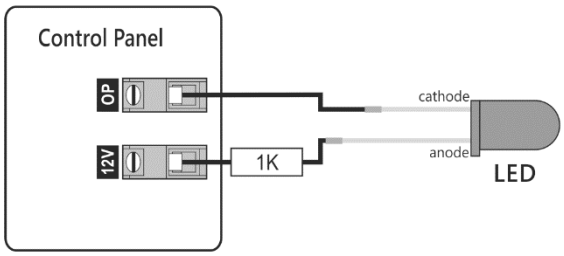


The volume levels for Normal, Chime, Alarm, Advisory and Alarm tones can be programmed, see 'Volume Levels' on page 39. The loudspeaker can also be tested.

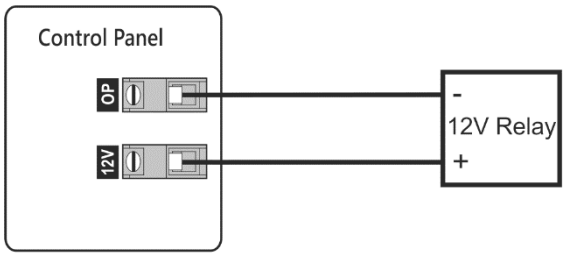
Panel Outputs

The outputs on-board the control panel (also expanders and keypads) can be used to control auxiliary devices e.g. sounders, LEDs etc. or third party communicators. The figures below some wiring examples:

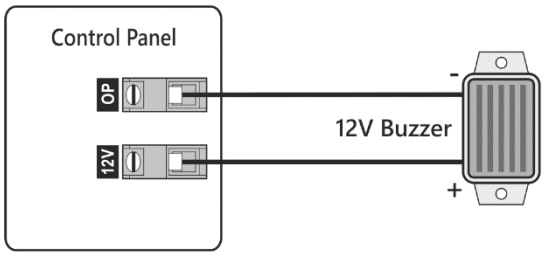
LED Indicator



Relay Driver



Buzzer Driver



External Sounder/Strobe Connections

For enhanced system performance, the Orisec external sounder range is recommended for use with the CP-30, CP-50 and CP-100. The following connections are available:

A 12V

The positive 12V hold-off supply, which is protected by an auto resetting fuse (PTC). Connect to the +12V (+) on the external sounder.

B 0V

0V supply. Connect to the 0V (-) supply on the external sounder/strobe unit.

C TR

Tamper Return input. Connect to the tamper output on the external sounder/strobe unit. If this input is not used it must be linked to 0V.

D Bell

Bell output which switches to 0V when active. Connect this terminal to the bell trigger input on the external sounder/strobe unit.

E Strobe

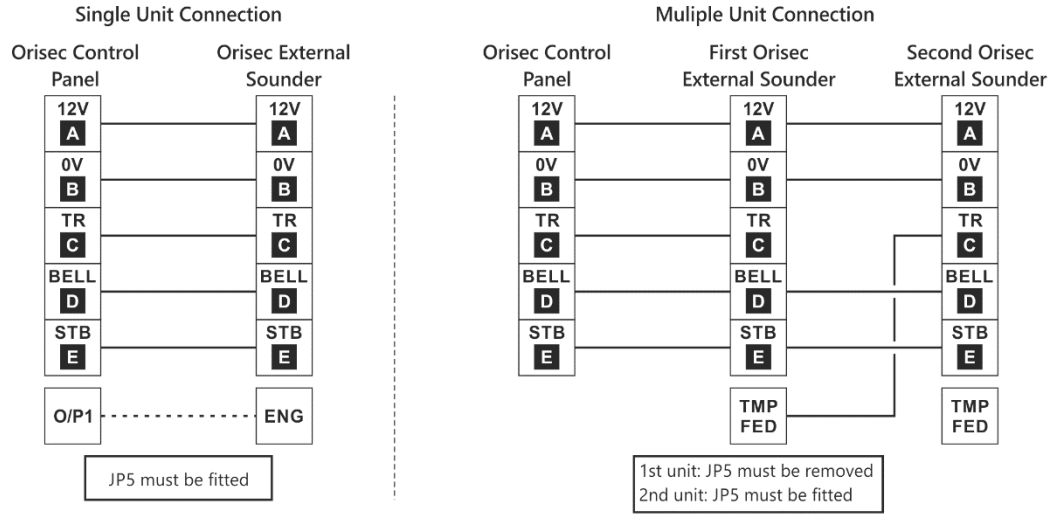
Strobe output which switches to 0V when active. Connect this terminal to the strobe input on the external sounder/strobe unit.

Network Wiring

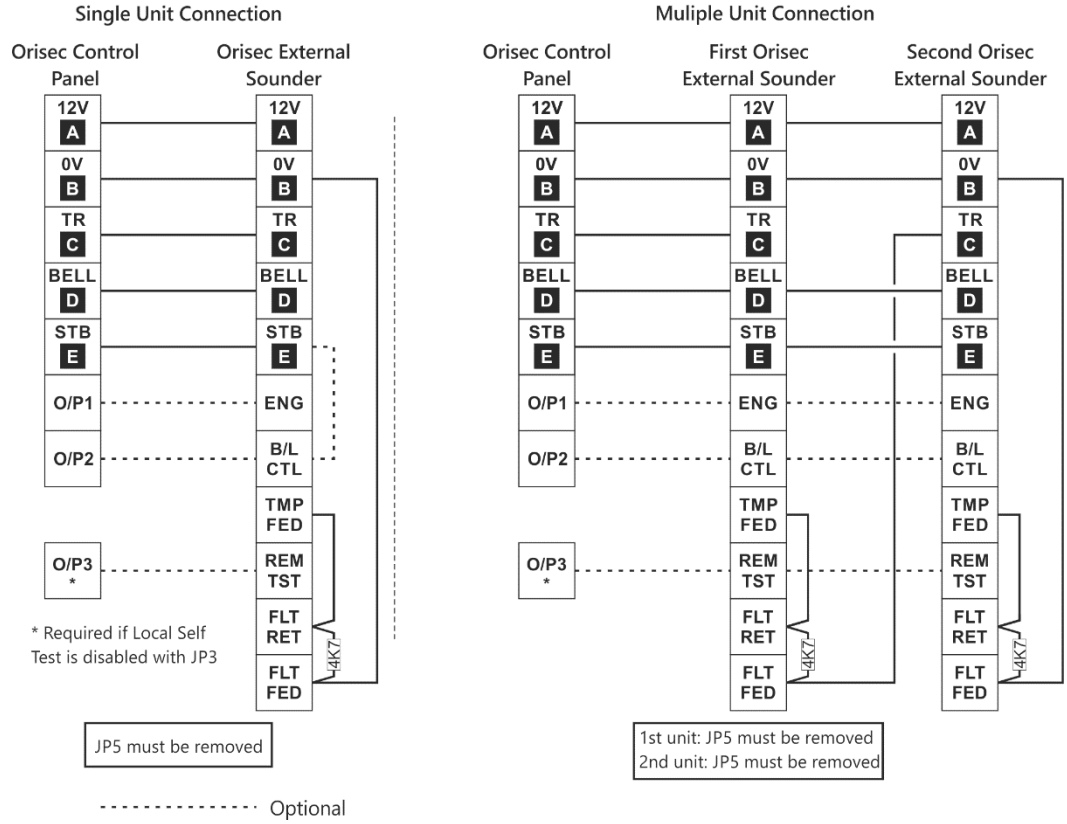
The Orisec external sounder range can also be connected to the network terminals of any Orisec control panel, keypad or expander. This significantly simplifies the cabling required and provides far greater functionality. Refer to the external sounder installation manual for further details.

Conventional Wiring

The figure below shows conventional wiring of Orisec external sounders:



Grade 3 Wiring Details



Communicator Connections

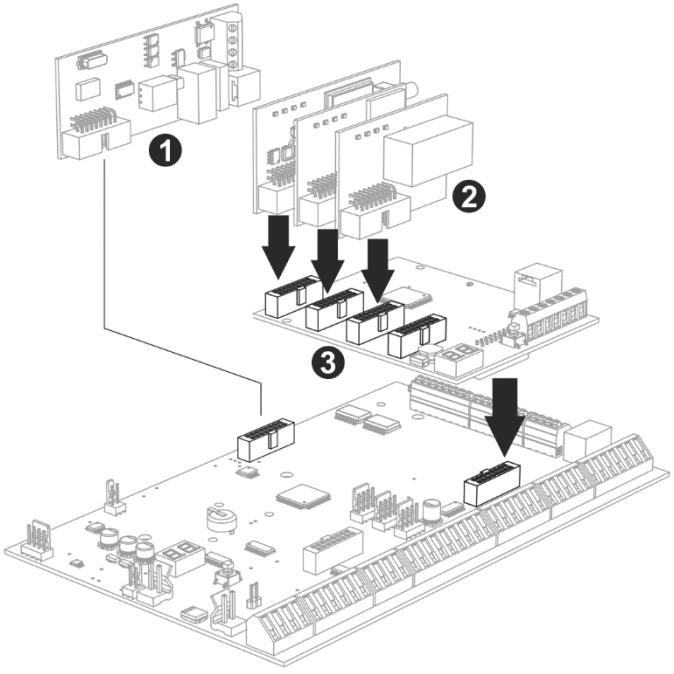
The CP-30, CP-50, CP-100 & CP-200 control panels can support multiple forms of communicator simultaneously. A communication controller module ZX-5C is required to host most of the communication modules. The different forms of signal paths available are as follows:

- A PSTN module can be plugged directly onto the control panel to provide communication over the Public Switched Telephone Network (PSTN)
- A GSM module can be plugged onto the ZX-5C to provide communication over the GSM network.
- An Ethernet module can be plugged onto the ZX-5C to provide cabled communication over a LAN/WAN network
- A Wi-Fi module can be plugged onto the ZX-5C to provide wireless communication over a LAN/WAN network.

The communication modules can be utilised for the following uses:

- Sending alarm status signals (Arming/disarming of the system, alarms etc.) to an Alarm Receiving Centre (ARC) using industry standard protocols, supported protocols – SIA II/ SIA III/ Contact ID/ Fast Format. Requires a PSTN Module or third party module (CSL, WebWayOne, BT Redcare, Emizon).
- Sending Voice messages to an end user using the built-in Speech Dialler functionality of the control panel. Requires either an Orisec GSM or Orisec PSTN module.
- Remote Upload/Downloading and Diagnostics of the panel using Orisec UDL software package. Requires either an Orisec Wi-Fi, Ethernet or GSM module, or a third party module (CSL, WebWayOne, BT Redcare, Emizon).

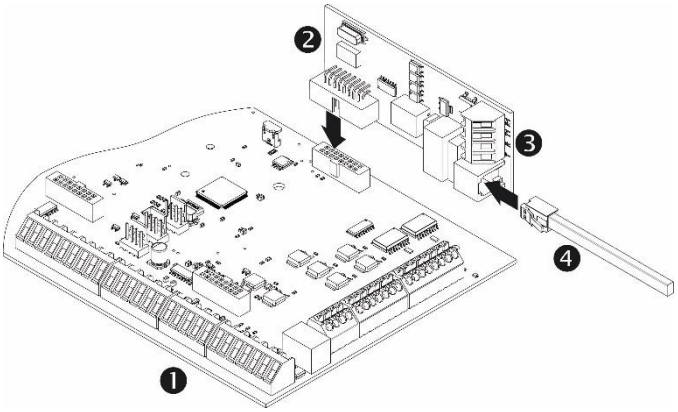
ZX-5C and Communication Module Installation



1. PSTN Module directly plugged onto control panel.
2. GSM module, Wi-Fi module or Ethernet module plugged onto one of the 4 available slots on the ZX-5C.
3. ZX-5C plugged onto the control panel.

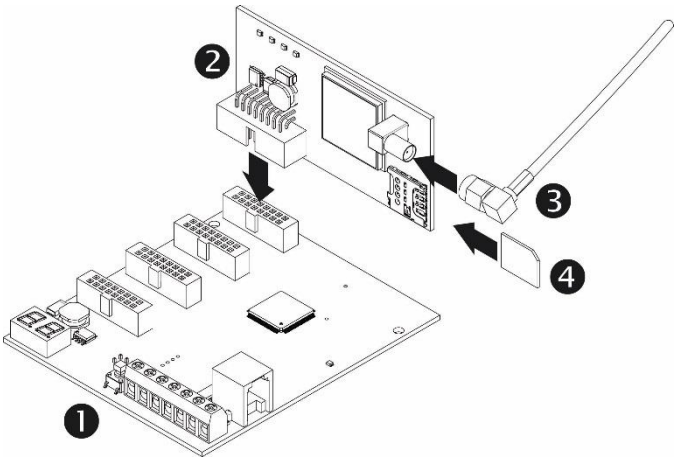
For setup and configuration of all communication modules, please see 'Coms Modules' on page 57.

Connecting the PSTN Module



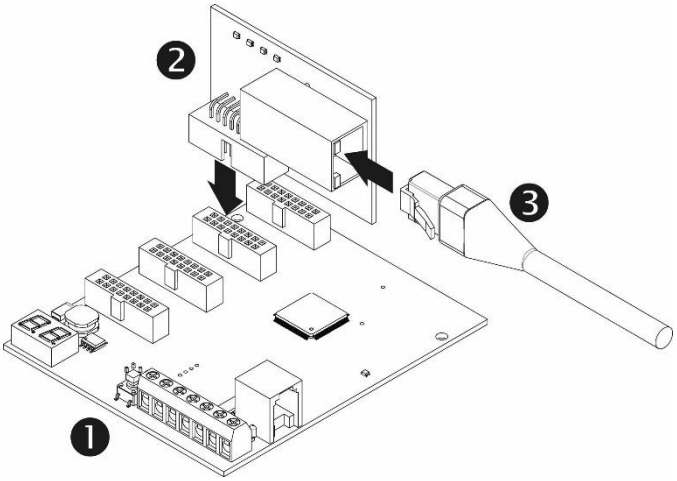
1. Control Panel main PCB.
2. PSTN Module; plug onto the PSTN Module Connector.
3. Terminal block connections for normal wiring (use only one method 3 or 4).
4. RJ-11 connection for patch lead connection (use only one method 3 or 4).

Connecting the GSM Module



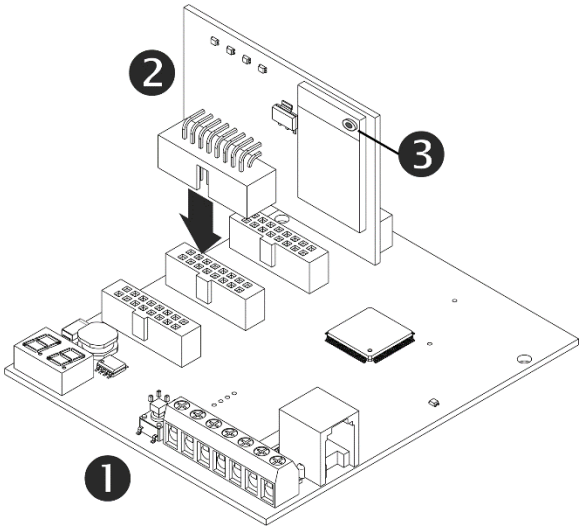
1. ZX-5C plugged onto control panel.
2. GSM Module; plug onto one of the 4 available slots on the ZX-5C.
3. GSM antenna; Route cable into housing and connect the GSM module.
4. Fit a Micro SIM that has an active contract or Pay as You Go Credit.

Connecting the Ethernet Module



1. ZX-5C Plugged onto the control panel.
2. Ethernet module; plug onto one of the 4 available slots on the ZX-5C.
3. RJ-45 patch lead: connect the other end to a hub or router.

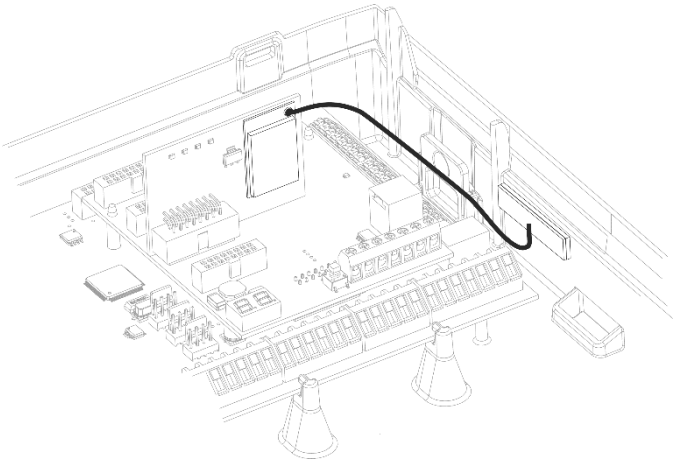
Connecting the Wi-Fi Module



1. ZX-5C plugged onto control panel.
2. Wi-Fi Module; plug onto one of the 4 available slots on the ZX-5C.
3. Wi-Fi antenna connector; for polymer control panels use the internal PCB antenna and for metal control panels use the external antenna:

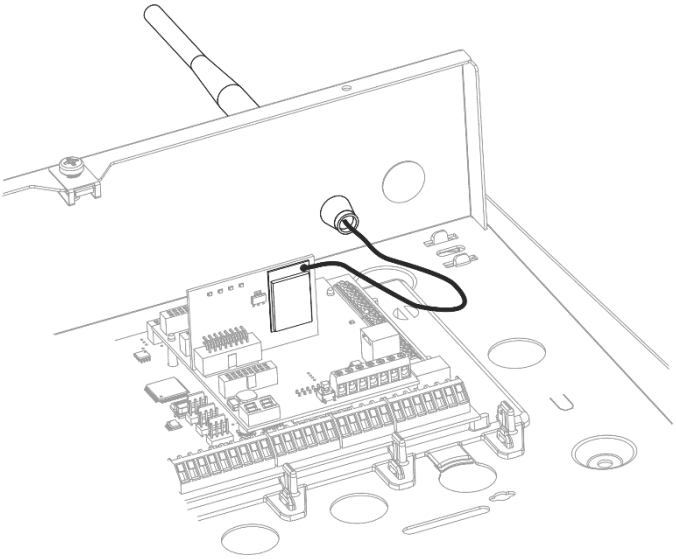
Polymer Internal Wi-Fi Antenna

Peel off the self-adhesive backing and stick the PCB antenna to the right-hand side of the enclosure. Connect the antenna cable to the Wi-Fi module antenna socket.

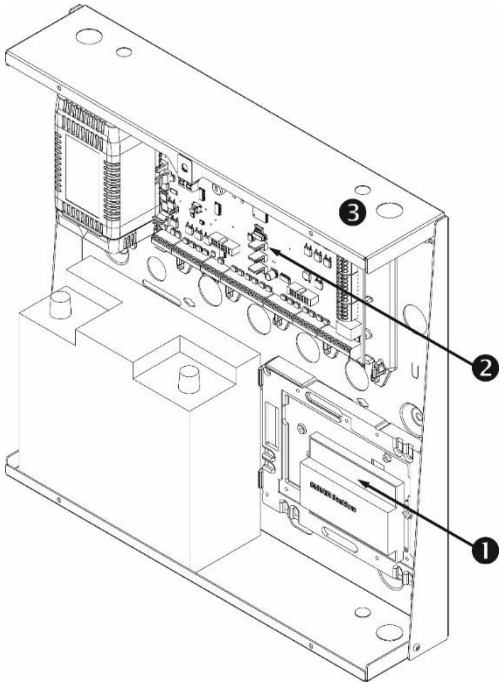


Metal External Wi-Fi Antenna

Knock out the right-hand antenna hole then fit the retaining clip to the antenna, feed the cable through the hole and push into place. Connect the antenna cable to the Wi-Fi module antenna socket.



Third Party Modules

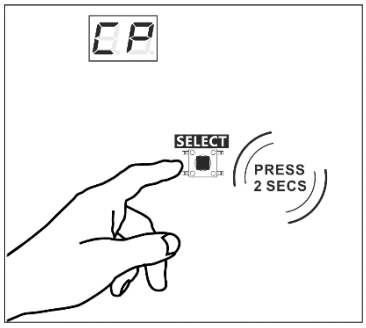


1. Third party communication module with either RS-485 or serial TTL interface (e.g. CSL, Emizon, WebWay or BT Redcare modules).
2. Control panel communication ports (COM1, COM2 and RS-485), connect to the third-party device (refer to third party manufacturer's instructions).
3. Knock-outs for GSM antenna cable entry.

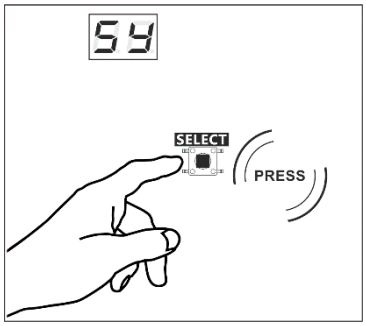
7-Segment display & Select button

The 7-segment display on the control panel shows the seconds from the real-time clock whilst in normal operation. When engineer's mode is selected, the display scrolls the control panel model and software version. To access all features available through the 7-segment display the control panel must be in engineer's mode.

When the system is in engineer's mode press and hold the 'SELECT' button' for 2 seconds for the main menu.



To scroll through the menu options, press the 'SELECT' button.



To select the displayed option, press the 'SELECT' button' for 2 seconds.

The menus are as follows;

Sy - System information
This menu will show the current control panel variant and software version.

FL - Faults
This menu will indicate any panel faults that are currently present, e.g., Battery fault.

Ct - Zone Status
This menu will show the current zone status as either 'Good' for healthy or 'Act' for active for the selected zone. Press 'SELECT' to select next zone.

Ld – Learn Device
This menu allows for the enrolment of a wireless keypad without the requirement of an additional keypad to put the expander in learn mode. The wireless keypad will be learnt to the last zone on the control panel.

dC - Default Codes
This menu will default the engineers code back to 1234. When you select this option the display will show '-3', you must now press 'SELECT' 3 times to default the engineers code.

dP - Default Panel
This option will default the entire control panel back to factory setting When you select this option the display will show '-3', you must now press 'SELECT' 3 times to default the control panel.

dr - Default Reporting Codes
This option will default all the reporting codes in the control panel back to the factory settings. When you select this option the display will show '-3', you must now press 'SELECT' 3 times to default the reporting codes.

Commissioning

Once ALL connections have been made to the control panel and power is ready to be applied, you should read this section before continuing.

The control panel leaves the factory programmed with default settings and when the system is powered up for the first time the default settings are in use.

1. Connect the black battery lead to the negative (–) terminal of the standby battery and the red battery lead to the positive (+) terminal of the standby battery. You must then momentarily short the "Kick Start" pins on the control panel. The green 7 segment display on the main PCB will begin to count.
2. If the Kick Start pins are not momentarily shorted, the panel will NOT power up on Battery only.
3. If the system enters an alarm condition, enter the default master user code 5678. The alarm tone will then stop.
4. To access the Engineer Programming Menu, enter the default engineer code 1234.
5. Confirm that all devices connected to the control panel are being recognised; see 'Confirm Devices' on page 75.
6. Program the system as per the site requirements, see 'Programming' on page 30.
7. Carry out a walk test as described on page 66. Remember that some powered devices may take several minutes to become operational upon power up.
8. Test the internal sounder, external sounder and strobe as described on page 66.
9. Replace the lid and secure with the lid screw supplied - do not over-tighten.
10. Log off and exit engineer's menu, see page 30.
11. The screen will display an AC mains fault. Apply the mains power to clear this message.
12. Ensure there are no other fault messages displayed on the system.

Installation is now complete and the system is ready for use. Please ensure the system users are provided with adequate training on operating the alarm system.

3. Programming

Introduction

To access the programming menu, enter the factory default engineer code 1234. The system will then enter Engineer Mode and all zones and tampers will be disabled.

Text Entry

There are multiple forms of text entry available on the Orisec CP series control panels.

Scroll Selection: When editing a text string, simply scroll through the characters using the ◄ and ► keys to highlight the required character then press the [Enter✓] key to select the character.

Key Selection: This method is like that used on older keyed mobile phones. When editing a text string, press the key the applicable number of times to toggle between characters.

The Chime key can be used to switch between Auto-Advance mode and Manual-Advance mode. Auto-Advance will automatically insert a letter upon the keypress whereas Manual-Advance will require you to press the Enter key to insert the desired letter.

QWERTY Keyboard: This method is only available when using an Orisec Touch Keypad. To access the QWERTY keyboard when editing a text string, press the keyboard icon to the top right hand side of the display.

Copy and paste programming

Easy to use copy and paste throughout panel programming.

This function is achieved by pressing the following buttons;

Copy: Press [Arm] to copy the highlighted item.

Paste: Press [Part] to paste the copied data.

Context sensitive help

All programming options have context sensitive help screens. Simply press the [♪?] key whilst any menu option is selected and the keypad will display detailed information about the selected option.

Engineer's programming menu

To access the engineer's programming menu, proceed as follows:

1. Enter your engineer's passcode (default 1234) to access engineer's programming menu:

2. Use the ▲ and ▼ keys to scroll through the menu options or key in the menu shortcut, e.g., enter 03 to select 'System Event Logs'.
3. When the required menu option is highlighted, press ► or [Enter✓] keys to select.
4. To exit a menu simply press the [Back←] or ◄ key to go back up a menu level.

Log off & Exit Engineer's programming menu

To log off and exit the engineer's programming menu, proceed as follows:

1. With engineer's programming menu selected, use the ▲ and ▼ keys to scroll to 'Log off & exit' option or key in the menu shortcut 11:

2. Press ► or [Enter✓] keys to log off and exit engineer's menu.

Zone Programming 00

This section covers programming of the detection devices; each zone can be programmed a zone type, text, wiring type, areas, attributes, links, camera id and voice message prompt.

Zone Type

Each zone must be programmed to one of the following types:

00 Not Used

This zone type is not monitored on the system – unused Zones should be programmed as 'Not Used'.

01 Final Exit 1

Most commonly used for a main entry door. If the area's arming mode is set as 'Final Exit' this zone type will be used to finalise the arming sequence. Once the area is armed, activating the zone will start the 'Entry 1 time' for the selected area.

02 Final Exit 2

Most commonly used as a secondary access point. If the area's arming mode is set as 'Final Exit' this zone type will be used to finalise the arming sequence. Once the area is armed, activating the zone will start the 'Entry 2 time' for the selected area.

03 Entry Route

Most commonly used for a detection device on the entry/exit route. Once the area is armed and the system has started the entry timer, activations from this zone will be ignored until the Entry timer has expired.

04 Intruder

This Zone type will be used for detection devices. When the System/Area is armed activation of this Zone will cause the system to go into a full alarm condition.

05 Perimeter

This Zone type is used for external detection devices. When the System/Area is armed activation of this Zone will cause the system to go into a full alarm condition.

06 Fire

Most commonly used for monitoring Smoke/Heat detectors. This Zone type is monitored 24/7 and will cause a full alarm if activated – in addition the alarm tone will be distinctly different to mimic standard fire alarms.

07 PA Silent

Most commonly used for monitoring panic buttons or shop hold up alarms. This Zone type is monitored 24/7 and will cause a silent panic alarm if activated.

08 PA Audible

Most commonly used for monitoring panic buttons or shop hold up alarms. This Zone type is monitored 24/7 and will cause a panic alarm if activated.

09 PA Confirmed

Most commonly used for monitoring panic buttons or shop hold up alarms. This zone type is monitored 24/7 and will cause a full alarm if activated, and send the confirmed PA signal.

10 PA Confirmed Silent

Most commonly used for monitoring panic buttons or shop hold up alarms. This zone type is monitored 24/7 and will cause a silent alarm if activated, and send the confirmed PA signal.

11 Disarmed PA Silent

Most commonly used for monitoring panic buttons or shop hold up alarms. This zone type is only monitored when the area is disarmed and will cause a silent panic alarm if activated.

12 Disarmed PA Audible

Most commonly used for elderly care and medical care. This Zone type is only monitored when the area is disarmed and will cause an audible panic alarm if activated

13 Medical

Most commonly used for elderly care and medical care. This Zone type is monitored 24/7 and will cause a silent alarm if activated

14 24 Hour

Most commonly used for areas or items which require 24hr full alarm monitoring. This Zone type is monitored 24/7 and will cause a full alarm if activated.

15 24 Hour (Int)

Most commonly used for areas or items which require 24hr full alarm monitoring. This Zone type is monitored 24/7 and will cause a full alarm if the System/Area is armed. In day mode, only the internal audible alarms will sound.

16 Tamper

Most commonly used for monitoring tamper circuits. This Zone type is monitored 24/7 and will cause a full alarm if activated.

17 Exit Terminator

This Zone type is used to terminate the arming timer for the Area/System. If the arming mode for the Area is programmed as 'Terminator' the system will only arm once the system is in exit, the Final Exit zone has been activated, and a Zone programmed as 'Exit Terminator' is activated.

18 Full Arm Key

This Zone type is used to fully arm/disarm the assigned Area.

19 Part 1 Key

This Zone type is used to arm/disarm Part set 1 for the system.

20 Part 2 Key

This Zone type is used to arm/disarm Part set 2 for the system.

21 Part 3 Key

This Zone type is used to arm/disarm Part set 3 for the system.

22 Omit Key

When Active this Zone type will isolate any Zone assigned to the same area, providing the Zones have the 'Manual Omit' attribute enabled. See 'Zone Omit ' on page 33.

23 Security Key

Most commonly used within schools or public buildings. When Active this Zone type will isolate any keypads assigned to the same area, and will not allow use of the keypads until the Zone is secure.

24 Auxiliary

Most commonly used for 3rd party auxiliary devices. This Zone type is monitored 24/7 and will cause a silent alarm if activated.

25 Warning

Most commonly used as a lone worker Zone type. This Zone type when active will start a timer (defined in System Options > Timers) If the timer expires the system will cause a full alarm condition.

26 Log / Monitor
Most commonly used for checking operation of 3rd party devices. This Zone type is monitored 24/7 and will add an entry into the event log every time it is activated – this Zone type will never cause an alarm.

27 Fault
Most commonly used for checking operation of 3rd party devices. This Zone type is monitored 24/7 and will cause a silent alarm if activated.

28 Counter
Most commonly used to trigger outputs. Activation of this Zone will not bring any fault to the screen armed or disarmed, nor will it log – it can be used to trigger outputs and will continue to add to the Zone active counters.

29 Flood 24 Hour
This zone type is used for areas or items which require 24hr flood monitoring. This zone type is monitored 24/7 and will cause a full alarm if activated.

30 CO 24 Hour
This zone type is used for areas or items which require 24hr CO monitoring. This zone type is monitored 24/7 and will cause a full alarm if activated.

31 Disarm Key
This zone type is used to fully disarm the assigned area.

32 Wireless Tamper
This zone type is intended for use with Orisec Wireless Keypads, Wireless external sounders and wireless expanders/repeaters.

33 RTE / Door Bell
This zone type is used for 'Request to Exit' inputs and door bells. The input will not log, and will not activate any alarm in the set state

Zone Text

Each Zone can be assigned a 20-character label that is displayed on all keypads when viewing the Zone status and event log. Zone text can also be programmed in the 'System Text' menu.

Additionally, for Version 5.00 on-wards.

Adding # and then a character to the end of zone text creates a group. Multiple zone activations within a group will not cause a confirmed alarm and instead only generates an unconfirmed intruder (for each zone).

E.g. If there are 8 shocks on a single window, they can all be named as "Window LHS shock #1", "Window RHS shock #1" etc for the 8 zones.

This can be added to an indefinite number of zones and there can be any number of groups within a system provided the character following the # is unique (i.e. it can be anything from #1 to #A to #@ to create a group)

If a single zone on 2 separate groups triggers, this will cause a confirmed alarm (E.g. Shed #A and Window #2 will cause a confirmed).

Zone Wiring

Each Zone must be programmed to the correct wiring type for the correct response.

0 Normally Closed
For use with normally closed detection devices where independent tamper monitoring is not required.

1 Normally Open
For use with normally open detection devices where independent tamper monitoring is not required.

2 Single EOL - N/C
For use with normally closed detection devices that are required to be terminated via a single 2K2 End of Line resistor.

3 Double EOL
For use with detection devices that have a normally closed alarm and tamper circuit. If the detection device does not have selectable on-board resistors, then external resistors 2K2 and 4K7 are required.

4 Triple EOL
For use with detection devices that have normally closed alarm, tamper and fault circuits. If the detection device does not have selectable on-board resistors, then external resistors 2K2, 4K7 and 2K2 are required.

5 Wireless Device
For use with wireless devices only.

6 1K/1K/(3K)
For use with other manufacturer detection devices where Double EOL is wired with 1K/1K resistors and Triple EOL is wired with 1K/1K/3K.

7 4K7/6K8/(12K)
For use with other manufacturer detection devices where Double EOL is wired with 4K7/6K8 resistors and Triple EOL is wired with 4K7/6K8/12K.

8 2K2/4K7/(6K8)
For use with other manufacturer detection devices where Double EOL is wired with 2K2/4K7 resistors and Triple EOL is wired with 2K2/4K7/6K8.

9 3K3/3K3
For use with other manufacturer detection devices where Double EOL is wired with 3K3/3K3 resistors.

10 4K7/4K7
For use with other manufacturer detection devices where Double EOL is wired with 4K7/4K7 resistors.

11 8K2/8K2/(8K2)
For use with other manufacturer detection devices where Double EOL is wired with 8K2/8K2 resistors and Triple EOL is wired with 8K2/8K2/8K2.

12 5K6/5K6
For use with other manufacturer detection devices where Double EOL is wired with 5K6/5K6 resistors.

13 2K2/2K2
For use with other manufacturer detection devices where Double EOL is wired with 2K2/2K2 resistors.

Zone Areas

The CP-30 has 3 areas, the CP50 has 5 areas, the CP-100 has 10 area and the CP-200 has 20 areas, these allow the system to be divided into different areas of protection. Each area can be armed and disarmed independently from each other. By default, all Zones are assigned to area 1, but if required a Zone can be assigned to any of the available areas. If a Zone is assigned to more than one area, it will only be armed when all assigned areas are armed.

1 Area 1

■ The Zone is assigned to area 1.

□ The Zone is not assigned to area 1.

2 Area 2

■ The Zone is assigned to area 2.

□ The Zone is not assigned to area 2.

3 Area 3

■ The Zone is assigned to area 3.

□ The Zone is not assigned to area 3.

4 Area 4

■ The Zone is assigned to area 4.

□ The Zone is not assigned to area 4.

5 Area 5

■ The Zone is assigned to area 5.

□ The Zone is not assigned to area 5.

Zone Omit

Each Zone can have one or more optional omit attributes programmed to control when the Zone is omitted.

1 In Part 1

■ The Zone is omitted when 'Part arm 1' is selected.

□ The Zone is not omitted when 'Part arm 1' is selected.

2 In Part 2

■ The Zone is omitted when 'Part arm 2' is selected.

□ The Zone is not omitted when 'Part arm 2' is selected.

3 In Part 3

■ The Zone is omitted when 'Part arm 3' is selected.

□ The Zone is not omitted when 'Part arm 3' is selected.

4 Manual Omit

■ The Zone can be manually omitted by the user when arming the system.

□ The Zone cannot be omitted by the user.

5 Auto Omitted

■ The Zone is automatically omitted at the end of exit mode if the Zone is still active.

□ The Zone is not omitted at the end of exit mode, and the system will fail to arm if the Zone remains active.

6 Keyswitch omit

■ The Zone is omitted when an "Omit Key" Zone type is active and reinstated when the "Omit Key" is secure.

□ The Zone is not omitted when an Omit Key is operated.

7 Ignore Signal Lost

■ Wireless zones will not cause a system fault if the device has not polled in.

□ Wireless zones will display 'Signal Lost' if the device has not polled in.

8 Omit from Ready

■ A zone with this attribute will be ignored when arming the system if "Exit When Ready" is turned on. This will also prevent a fault tone from being generated on a silent exit.

□ The zone functions as normal.

Zone Attributes

Each Zone can have one or more optional attributes programmed to further alter its functionality.

1 Double Knock

■ When a Zone is enabled for Double Knock it will only cause an alarm when:

(a) The Zone remains active for the duration of the "Double Knock Delay".

(b) The Zone is triggered twice within the "Double Knock Delay".

(c) If any two Zones with the "Double Knock" attribute, in the same area, are activated during the "Double Knock Delay".

□ The Zone functions as normal.

2 Disable Comms

■ The alarm status is not transmitted.

□ The on-board communicator will report the alarm status to the monitoring station when the Zone causes an alarm.

3 Reset

■ Zones with this attribute will not be monitored during the detector reset period. The detector reset occurs when the exit mode is started or when the user resets the system after an alarm. Detection devices such as smoke detectors that are powered from an output programmed as "Detector Reset" should have this attribute switched on.

□ The Zone functions as normal.

4 Fast Response

■ Zones with this attribute respond at the response rate determined by the "Fast Time", see page 35.

□ The Zone functions as normal.

5 Auto Rearm

■ On: Zones with this attribute will only re-arm at the end of the bell duration if the "No. Re-arms" limit has not been reached. Once this limit has been reached, the Zone will lock out and not cause any further Intruder alarms.

□ Off: The Zone will always re-arm.

6 Remote Detector Test

■ On: Zones with this attribute are monitored for specific activity during the remote detector test. The detector must be connected to the control panel using triple EOL wiring and the detector remote test input must be connected to a panel output programmed as "Remote Detector Test".

□ The Zone functions as normal.

7 Momentary Key

■ If the Zone type is a keyswitch type, the operation mode is changed to momentary.

□ If the Zone type is a keyswitch type, the operation remains as latching mode.

8 Record Activity

■ The Zone activity is included when recording the activations per day and the total activations. The activity data can be viewed using the UDL or smart phone app.

□ The Zone activity is not included.

9 Beam Pair

■ When a Zone is enabled for Beam Pair it will only cause an alarm when any two Zones with the "Beam Pair" attribute, in the same area, are activated during the "Beam Pair" timer.

☐ The Zone functions as normal

10 Beam Pair 2nd

■ When a Zone is enabled for Beam Pair 2nd the Zone will only cause an alarm if it is the second beam pair Zone to go active, if it is the first Zone to become activate then this will not contribute to an alarm activation and will not start the "Beam Pair" timer.

☐ The Zone functions as normal.

11 Monitor When Armed

■ The Log/Monitor zone type will only log when the system is Armed.

☐ The Log/Monitor zone type will always log.

12 Send Real Time Status

■ Zones state changes will be printed through any Com Port programmed as Printer.

☐ Zone state changes will not be printed.

13 Internals Only

■ When the zone is activated in the armed state only internal sounders will trigger.

☐ Activation of the zone in the armed state will trigger internal speakers and external sounders.

14 Chime Visible

■ When the 'Chime' feature is turned on and the zone is activated, the keypads display the zone information of zone that activated (see also 'Chime view time' on page 35). The zone can also be configured to generate a tone or voice prompt, see 'Zone Chime' below.

☐ The zone functions as normal.

15 Beam Pair Clear

■ When the Beam Pair attribute is enabled, this zone will clear the Beam Pair delay upon its second activation.

☐ The zone maintains its normal zone type in Part Set.

16 Inactivity Alert

■ If this zone is not activated for the duration of the Inactivity Time, the Zone Inactivity output will trigger.

☐ The zone functions as normal.

Zone Chime

Each Zone can have an optional chime sound programmed that allows the panel and remote keypads to generate an audible tone when the Zone is activated in the disarmed mode.

0 Off

The Zone will not generate a chime tone.

1 Tone 1

The Zone generates chime tone 1 when activated in the disarmed state.

2 Tone 2

The Zone generates chime tone 2 when activated in the disarmed state.

3 Tone 3

The Zone generates chime tone 3 when activated in the disarmed state.

4 Tone 4

The Zone generates chime tone 4 when activated in the disarmed state.

5 Voice

The Zone generates a voice response from control panel loudspeaker when activated in the disarmed state, e.g. "Zone three" or one of the pre-programmed prompts e.g., 'Master Bedroom'. See 'Voice Message' below.

Zone Soak Test

Each Zone can be put on test for a programmed soak test period. When a Zone is on test it will not cause an alarm if activated, but the system will record the failure in the event log and indicate the fault to the user.

0 No

The zone is not on soak test.

1 Yes

The zone is on soak test.

Zone Camera

Scroll left to right to select a camera number from 1 to 5. The camera IP address is configured in the 'UDL Options' menu, see page 64. The camera number is used by the smartphone app to select and stream the video images to the app.

Part Set Zone Types

A different zone type can be specified for each of the Part Set Modes. For the full list of zone types please see page 31.

Voice Message

When the zone chime is configured as 'Voice', a voice prompt message can be assigned to the selected zone. The following voice messages are available:

00: This option will play the Zone Number.

01: This option will play "Front Door"

02: This option will play "Back Door"

03: This option will play "Side Door"

04: This option will play "Patio Doors"

05: This option will play "Kitchen"

06: This option will play "Dining Room"

07: This option will play "Lounge"

08: This option will play "Study"

09: This option will play "Conservatory"

10: This option will play "Hallway"

11: This option will play "Garage"

12: This option will play "Workshop"

13: This option will play "Landing"

14: This option will play "Master Bedroom"

15: This option will play "Bedroom 2"

16: This option will play "Bedroom 3"

17: This option will play "Bedroom 4"

18: This option will play "Bedroom 5"

19: This option will play "Office"

20: This option will play "Games Room"

21: This option will play "Front Garden"

22: This option will play "Rear Garden"

23: This option will play "Stables"

24: This option will play "Fish Pond"

25: This option will play "Swimming Pool"

26: This option will play 'Entrance Gate'

27: This option will play 'Bathroom'

28: This option will play 'Perimeter Activated'

29: This option will play 'Post Box'

System Options 01

This section covers programming of the system timers, counters, hardware, system options, volume levels and chains.

System Timers

The system timers control global system timings and delay operations.

01 AC fail

This timer controls the delay between an AC fail activation occurring and an audible indication/ communication event being triggered.

Default = 005 minutes - (0-127 minutes)

02 ATS delay

This timer controls the delay between an ATS fault activation occurring and an audible indication/ communication event being triggered

Default = 000 minutes - (0-127 minutes)

03 Fast time

This timer controls the response times (in 10ms steps) of Zones with the 'Fast Response' attribute assigned. Commonly used with Inertia detection devices.

Default = 750 milliseconds - (0-127 x 10ms)

04 Abort delay

When the area is armed and an intruder Zone activates the abort timer begins - if the area is disarmed within this time window an 'Abort' signal will be logged and sent to the ARC. If the system is disarmed after this timer no 'Abort signal' will be sent or logged.

Default = 180 seconds – (0-127 seconds)

05 Battery test period

This timer is used to control frequency at which the standby battery is load tested.

Default = 020 hours - (0-127 hours)

06 Battery test duration

This timer is used to control the duration of the standby battery load test.

Default = 020 seconds - (0-127 seconds)

07 Soak test

This timer is used to control the duration of the Zone soak test. The timer is automatically started after a Zone is put on test.

Default = 014 days – (0-127 days)

08 Double knock

This timer controls the length of the double knock time. A Zone with the 'double knock' attribute will only become active if the Zone is activated twice within this time window – or left open for the duration of this time window.

Default = 10 seconds – (0-127 seconds)

09 Beam pair

If a Zone has the 'Beam Pair' attribute, an alarm will only occur if another Zone with the 'Beam Pair' attribute (assigned to the same area) is activated within this time window.

Default = 030 seconds – (0-127 seconds)

10 Service period

This timer controls the frequency of the system requiring a service – when the timer expires the system will generate a message onto

the keypad displays suggesting 'Service required – please contact engineer'

Default 0 weeks – (0-127 weeks)

11 Confirm delay
When an Intruder alarm occurs, this timer starts. If a second Zone is activated within this time window, the 'Confirmed' output will activate. When this timer expires, the 'Confirmed' output will no longer activate.

Default 060 minutes – (0-127 minutes)

12 PA Confirmed delay
When a PA alarm occurs, this timer starts. If a second PA Zone is activated within this time window, the 'PA Confirmed' output will activate. When this timer expires, the 'PA Confirmed' output will no longer activate.

Default 008 hours – (0-127 hours)

13 Pulse 1
This timer controls the duration an output with the attribute 'Pulse 1' assigned will remain active for.

Default 10 seconds - (0-127 seconds)

14 Pulse 2
This timer controls the duration an output with the attribute 'Pulse 2' assigned will remain active for.

Default 015 seconds - (0-127 seconds)

15 Pulse 3
This timer controls the duration an output with the attribute 'Pulse 3' assigned will remain active for.

Default 020 minutes - (0-127 minutes)

16 Delay 1
This timer controls the delay before an output activates. Any output with the attribute 'Delay 1' will be delayed for the duration of this timer.

Default 010 seconds – (0-127 seconds)

17 Delay 2
This timer controls the delay before an output activates. Any output with the attribute 'Delay 2' will be delayed for the duration of this timer.

Default 015 seconds – (0-127 seconds)

18 Delay 3
This timer controls the delay before an output activates. Any output with the attribute 'Delay 3' will be delayed for the duration of this timer.

Default 020 minutes – (0-127 minutes)

19 Warning delay
This timer controls the duration a Zone programmed as 'Warning' is required to be active before a full alarm condition is created.

Default 030 minutes – (0-127 minutes)

20 Random minimum
This timer controls the minimum duration for an output programmed as 'Random Output'

Default 005 minutes – (0-127 minutes)

21 Random maximum
This timer controls the maximum duration for an output programmed as 'Random Output'

Default 010 minutes – (0-127 minutes)

22 Access time
This timer controls the duration an 'Access user' has to access the system, commonly used for access control.

Default 050 seconds – (0-127 seconds)

23 KSW re-arm delay
If the system is armed with a Keyswitch Zone type (i.e. Full Arm Key) once the area has been disarmed this timer will trigger, after the programmed time has elapsed the system will re-arm, if the Keyswitch is in the active state.

Default 000 minutes – (0-127 minutes)

24 Auto re-arm delay
This timer controls the duration of time before an area will start arming itself after a successful disarm. For an area to arm itself with this timer it will need to be enabled in Area Options > Attributes > Enable Auto Arming. See page 43.

Default 000 minutes – (0-127 minutes)

25 Eng. log off delay
This timer controls the duration an engineer is allowed within the menus before being logged out automatically via the system.

Default 60 minutes – (0-127 minutes)

26 Chime view time
This timer controls the duration a Zone with 'Chime Visible' is displayed on the keypads once activated.

Default 5 Seconds – (0-127 seconds)

27 Inactivity time
This timer controls the time a zone with Inactivity Warning attribute is inactive before "Zone Inactivity" output is triggered.

Default 00 hours – (0-127 hours)

28 Confirmed inactivity
This timer controls the delay before the 'Confirmed inactivity' output is triggered. The confirmed inactivity timer will follow after the zone 'Inactivity timer.'

29 Notify timeout
This timer controls the delay before an additional zone notification, for the same zone, is signalled to the ControlPlus application.

Default 15 minutes

30 SIA IP Poll Delay
This timer controls the frequency for the SIA IP polling protocol.

System Limits

The system limits are used to limit the number of times a function or feature can be carried out.

01 No. Re-arms
This counter controls the number of times a Zone can rearm during an armed period. Once a Zone has reached its rearm limit, it is locked out so that it cannot cause further alarm activations during the same armed period.

Default 3 – (0-127)

A Zone will require the 'Auto re-arm' attribute to be enabled, this is enabled at default on all Zones.

02 No. RNRRs

This counter controls the number of times the system can be remotely reset before an engineer must attend site. The remote reset can be performed via the 'RR' terminal on the control panel or by using the Orisec 'Easy Reset' program/app.

Default 003 – (0-127)

If this option is set at '0' it is infinite.

03 Count Warning

This counter controls the number of times that a Zone must activate, before triggering the corresponding "Zone ## Count" output.

Default 0 – (0-127)

04 Count Logging

This counter controls the number of times that a zone must activate, before logging a "Zone Count ##" event in the system log.

Default 0 – (0-127)

System Standards

This set of options allows you to select the standards the system needs to comply to.

1 Enable EN50131

- ■ EN50131 options are enabled. (Default setting.)
- ☐ EN50131 options are disabled.

2 Enable EN50131 Grade 3

- ■ EN50131 Grade 3 options are enabled.
- ☐ EN50131 Grade 3 options are disabled. (Default setting.)

3 Enable BS8243

- ■ BS8243 options are enabled.
- ☐ BS8243 options are disabled. (Default setting.)

4 Enable PD6662:2017

- ■ PD6662:2017 options are enabled. (Default setting.)
- ☐ PD6662:2017 options are disabled.

5 Enable BS8243 6.4.4

- ■ BS8243 6.4.4 requirements are enabled.
- ☐ BS8243 6.4.4 requirements are disabled. (Default setting.)

To fully enable BS8243 6.4.4, 'System Options > Requirements > Confirm 6.4.4' also needs to be enabled. Enabling both options removes the ability to generate a confirmed alarm if the entry route has started. This option should only be used for police response systems where codes are to be used to unset the security system.

6 Disable Alerts

- ■ Alert tones will not be played when a fault requires acknowledgement e.g. 'Battery fault'.
- ☐ Alert tones will be played when a fault requires acknowledgement e.g. 'Battery fault'.

7 Eng Enabled Always

- ■ An engineer can gain access to the programming menus even if an area is armed.
- ☐ An engineer can only access the programming menus if the system is fully unset.

System Options

This set of options allow the system operation and features to be altered.

1 Auto BST/GMT

- ■ The system clock is automatically put forward by one hour on the last Sunday in March at 2.00AM and put back by one hour on last Sunday in October at 2:00AM.
- ☐ The system clock remains unchanged.

2 Test Bat by time

- ■ The battery test feature is invoked when Control Timer 5 switches on and every time the system is disarmed.
- ☐ The battery test feature is performed by the "Battery Test Period" timer.

3 Reinstate on Disarm

- ■ Any Zones that have been omitted are automatically reinstated when the system is disarmed.
- ☐ Omitted Zones remain omitted after the system is disarmed until manual reinstated.

4 Power up=Clear Zones

- ■ All Zones on power up are seen as secure for 30 seconds.
- ☐ All Zones operate as normal.

5 Chime on Restore

- ■ A Zone with chime enabled will generate a chime noise upon restoral as well as activation.
- ☐ The Zone will operate as normal.

6 View Active Zones

- ■ Active Zone status is displayed on all keypads in day mode operation.
- ☐ The system operates as normal.

7 Global Keypad Info

- ■ All keypads on the system will show system and area status regardless of the area assigned
- ☐ Keypads only display relevant information for the area assigned.

8 Disable Armed Omit

- ■ Zones cannot be omitted whilst the area/system is armed.
- ☐ Zones can be omitted whilst the area/system is armed.

9 Reinstate Forced

- ■ Zones that have been 'Auto omitted' (See 'Zone Omit ' on page 33) will be reinstated once the Zone has become secure.
- ☐ Zones that have been 'Auto omitted' will not be reinstated once secure.

10 Show Welcome message

- ■ When a user enters their code the screen will read 'Welcome Back ###' for 2 seconds.
- ☐ They system will operate as normal.

11 Show Disarm message

■ The keypad will display any areas that have just been disarmed for 5 seconds.

☐ The system will operate as normal.

12 Flash Bell Light

■ The bell backlight will flash while the strobe is flashing.

☐ The bell backlight will operate as normal.

13 Manual Bell Light

■ Disables the light sensor on the bell in order to allow the bell backlight to be manually controlled.

☐ The bell backlight will operate as normal.

14 Flasher Mode

■ The alternating LEDs on the bell box will flash the same as the Orisec dummy Flasher Module.

☐ The bell will operate as normal.

15 Lock NVM

■ The Non-Volatile Memory is locked and cannot be reset to factory defaults.

☐ The NVM is unlocked and can be reset to factory defaults.

16 CoTD Eng Mode

■ The engineer code will need to be unlocked with an unlock code. This code will be generated via PC based software.

☐ The engineer code can be used as normal.

Requirements

This option allows you to change some of the options used to comply with the standards.

01 Soak test arm indication

■ The keypad will display an indication that zones are on soak test at the point of arming.

☐ The system will not give a warning of zones on soak test during the arming procedure.

02 Log max 3 messages

■ The system will limit the logging of any log event to 3 events between the use of any valid user code.

☐ Events may be logged an unlimited number of times

03 EXP Lost=Zone Tamper

■ When an expander is lost from the system, all zones on the expander will show a tamper condition.

☐ When an expander is lost from the system, all zones on the expander will show an intruder alarm condition.

04 5 & 6 Digit codes only

■ All codes on the system must be either 5 or 6 digits in length.

☐ Codes can be between 4 and 6 digits in length.

05 Keypad blanking

■ The keypad will hide system information after 60 seconds of no activity.

☐ Keypads will operate as normal.

06 User can omit tampers

■ Users can omit zones that are in a tamper condition.

☐ Users cannot omit zones that are in tamper.

07 Confirm 6.4.4

■ BS8243 6.4.4 requirements are enabled.

☐ BS8243 6.4.4 requirements are disabled.

To fully enable BS8243 6.4.4, 'System Options > Standards > Enable BS8243 6.4.4' also needs to be enabled. Enabling both options removes the ability to generate a confirmed alarm if the entry route has started. This option should only be used for police response systems where codes are to be used to unset the security system.

08 Keypad LED

■ The LED for all keypads will display as follows:

Red = Alarm

Green = Valid code entered

Yellow = Active circuits

Purple = Flash upgrade

Blue = Day mode, no active zones.

☐ The LED for all keypads will display as follows:

Green = System Disarmed

Red = System Armed

Speaker Sounds

Controls which tones are generated by the speaker output on the main control panel.

01 Alarm Tones

■ The speaker connection on the main control panel will sound alarm tones.

☐ The speaker connection on the main control panel will not sound alarm tones.

02 Fault Tones

■ The speaker connection on the main control panel will sound fault tones.

☐ The speaker connection on the main control panel will not sound fault tones.

03 Chime Tones

■ The speaker connection on the main control panel will sound chime tones.

☐ The speaker connection on the main control panel will not sound chime tones.

04 Entry Tones

■ The speaker connection on the main control panel will sound entry tones.

☐ The speaker connection on the main control panel will not sound entry tones.

05 Exit Tones

■ The speaker connection on the main control panel will sound Exit tones.

☐ The speaker connection on the main control panel will not sound Exit tones.

06 Advisory Tones

- ■ The speaker connection on the main control panel will sound advisory tones.
- ☐ The speaker connection on the main control panel will not sound advisory tones.

07 Tamper Alarms

- ■ The speaker connection on the main control panel will sound tamper alarms.
- ☐ The speaker connection on the main control panel will not sound tamper alarms.

Volume Levels

This set of options controls the volume levels for the control panel's speaker output.

01 Normal volume

This option controls the level of the exit, entry, fault and warning tones from the control panel speaker.

Default 10 – (0-10)

02 Chime volume

This option controls the level of the chime tone from the control panel speaker.

Default 10 – (0-10)

03 Advisory Volume

This option controls the level of the advisory tones from the control panel speaker.

Default 10 – (0-10)

04 Alarm Volume

This option controls the level of the alarm tones from the control panel speaker.

Default 10 – (0-10)

Monitor Outputs

This option enables/disables fault monitoring of the control panel outputs.

Panel Output 9 (CP-30)

- ■ The output is monitored for open circuit faults and requires to sense a maximum load impedance of 1K.
- ☐ The output is not monitored.

Panel Output 10 (CP-30)

- ■ The output is monitored for open circuit faults and requires to sense a maximum load impedance of 1K.
- ☐ The output is not monitored.

Panel Output 17 (CP-50, CP-100 & CP-200)

- ■ The output is monitored for open circuit faults and requires to sense a maximum load impedance of 1K.
- ☐ The output is not monitored.

Panel Output 18 (CP-50, CP-100 & CP-200)

- ■ The output is monitored for open circuit faults and requires to sense a maximum load impedance of 1K.
- ☐ The output is not monitored.

Panel Output 19 (CP-50, CP-100 & CP-200)

- ■ The output is monitored for open circuit faults and requires to sense a maximum load impedance of 1K.
- ☐ The output is not monitored.

Panel Output 20 (CP-50, CP-100 & CP-200)

- ■ The output is monitored for open circuit faults and requires to sense a maximum load impedance of 1K.
- ☐ The output is not monitored.

Hardware Monitoring

This set of options allows the monitoring of the control panel hardware to be enabled or disabled.

01 Mains AC

- ■ The control panel's mains power is monitored for activity.
- ☐ The control panel's mains power is not monitored.

02 Telephone Line

- ■ The telephone line connection is monitored for faults.
- ☐ The telephone line connection is not monitored.

03 Panel Tamper

- ■ The panel box tamper is monitored for activity.
- ☐ The panel box tamper is not monitored.

04 Bell Tamper

- ■ The bell tamper input is monitored for activity.
- ☐ The bell tamper input is not monitored.

05 Aux Tamper

- ■ The aux tamper input is monitored for activity.
- ☐ The aux tamper input is not monitored.

06 Aux Fuse

- ■ The aux fuse is monitored for activity.
- ☐ The aux fuse is not monitored.

07 System Voltage

- ■ The system voltage is monitored for faults.
- ☐ The system voltage is not monitored.

08 Battery Presence

- ■ The standby battery is monitored for its presence.
- ☐ The standby battery is not monitored.

09 Network Bell Tamper

- ■ Network bell tampers are monitored for activity.
- ☐ Network bell tampers are not monitored.

10 Network Bell Faults

- ■ Network bells will be monitored for grade 3 fault conditions eg Battery faults.
- ☐ Network bells will not be monitored for grade 3 fault conditions.

11 Report Single Path Fault

- ■ WebWayOne communication modules will report ATS PATH FAULT after a single path failure.
- ☐ WebWayOne communication modules will report ATS PATH FAULT after dual path failure

12 Monitor ATS Path Fault

☑ The Orisec CM1 Modules will report any faults if there is a path failure.

☐ The Orisec CM1 Modules will report any faults if there is a path failure.

Language

This option selects the default operating language and only effects the normal operating information displays. When any user is logged into the system, their selected language is then used, see 'User Language' on page 48.

ES Backlight

This option sets the illumination level for the Orisec ES-120 and ES-130 D-Lux external sounders, when connected in 'Network' mode.

Default 1200 (0-1200)

Current Limits (CP-50, CP-100 & CP-200)

The Orisec CP series uses software based fuses to provide a customisable current limit for several sources of power from the panel.

Network Limit (mA)

This is the Current Limit for the Network terminals of the control panel. I.e. For Keypads, Expanders etc.

Default 1500 mA (0-2000)

Aux Limit (mA)

This is the Current Limit for the Auxiliary power terminals of the control panel (12V and 0V). Devices connected here may include Detectors, Shock Sensors, Auxiliary Devices etc.

Default 500 mA (0-2000)

Bell Limit (mA)

This is the Current Limit for the Bell terminals on the control panel (12V and 0V)

Default 500 mA (0-2000)

Radio Timers

The following timers control operation of the Orisec wireless devices.

Radio poll delay

This timer controls the polling frequency of wireless devices.

Default 020 minutes (0-127)

Radio Bell

This timer controls the duration the wireless external sounder will sound for following an activation.

Default 003 minutes (0-127)

Radio Strobe

This timer controls the duration the wireless external sounder will flash its strobe for following an activation.

Default 003 minutes (0-127)

Radio OK Time

This timer controls the duration a detector will sleep for following an activation.

Default 000 seconds (0-127)

The above timers can be toggled between minutes and seconds by pressing the 'Omit' button when the relevant system timer is highlighted.

Radio lost delay

This timer controls the delay before a device "signal loss" is reported.

Default (2 hours)

Radio Options

The following options control operation of the Orisec wireless devices.

Sleep in unset

☑ When enabled, wireless PIRs will not react to activations in the unset state.

☐ The detector will react in accordance with the "Radio OK Time".

Wake up in Alarm

☑ When enabled, the wireless keypad will wake during an alarm condition. (When powered from a battery only.)

☐ The wireless keypad will remain in a 'sleep state' until a button is pressed".

Wake up in Entry

☑ When enabled, the wireless keypad will wake during an entry condition. (When powered from a battery only.)

☐ The wireless keypad will remain in a 'sleep state' until a button is pressed".

Enable Comfort LEDs

☑ When enabled Wireless external sounder's comfort LED's will flash continually.

☐ Wireless external sounders LEDs are off OR can be controlled via a chain. See 'Chain Control O/Ps' below.

Enable Fire/Flood Radio

☑ When enabled allows the Orisec control panels to use Fire/Flood wireless detection devices.

☐ The control panel cannot use Fire/Flood wireless detection devices.

Enable Fire/Flood Groups

☑ When enabled it allows for multiple Fire/Flood wireless detection devices to be learnt to a singular zone.

☐ The control panel cannot learn multiple Fire/Flood wireless detection devices to a singular zone, so they must each be learnt to an individual zone.

Disable W-INT-CS LEDs

☑ LEDs on the W-INT-CS are Disabled

☐ LEDs are enabled

Chain Control O/P

The following options allows for Orisec devices to be further customised using 'Chains'. Please refer to page 75 for further details.

Bell Backlight
This option will enable the DLUX illumination when the assigned chain control is active.

System option 13 'Manual bell light' needs to be enabled for the DLUX illumination to be controlled via this option.

Bell comfort LEDs
This option will enable the comfort LEDs on a wireless external sounder to operate when the assigned chain control is active.

Wireless LED enable
This option will enable the detection LEDs on wireless detectors to operate when the assigned chain control is active.

Enabling the comfort LEDs will reduce the battery life of the relevant detectors.

Wireless Sleep
This option will cause Orisec wireless devices to sleep when the assigned chain control is active.

Bell
This option will control the external sounder's bell when the assigned chain control is active.

Strobe
This option will control the external sounder's strobe when the assigned chain control is active.

Flasher Mode
This option will control the external sounder's comfort LEDs. When the assigned chain control is active the external sounder's comfort LEDs will change from a normal flash rate to a slower and shorter flash rate.

Device Areas

The control panel can activate three different sounders: One via conventional SAB outputs ("Panel Bell") and two via network connections ("Net Bell 1" and "Net Bell 2"). Each of these maybe assigned to individual Areas.

Panel Bell
This option selects which Areas the Panel Bell is associated with.

Net Bell 1
This option selects which Areas the Network Bell 1 is associated with.

Net Bell 2
This option selects which Areas the Network Bell 2 is associated with.

Net Bell 3
This option selects which Areas the Network Bell 3 is associated with.

Net Bell 4
This option selects which Areas the Network Bell 4 is associated with.

Area Options 02

This section covers programming of the arming modes and options for each of the areas.

Area Text

Each area can be assigned a 20-character label that is displayed on all keypads when viewing the area, area status and event log. Area text can also be programmed in the 'System Text' menu.

Area Full Arm Mode

This set of options control how the selected area is armed when the user full arms the selected area.

0 Final Exit

When the exit mode is started, the selected area will only arm after the activation of a "Final Exit 1" or "Final Exit 2" Zone type, e.g., after the front door is opened and then closed. Upon activation of a final exit zone, the area will arm after the Exit Settle Time.

1 Timed Exit

When the exit mode is started, the selected area will arm after the "Exit Delay timer" has expired.

2 Terminator

When the exit mode is started, the selected area will only arm after activation of a "Final Exit 1" or "Final Exit 2" Zone type, followed by the activation of an "Exit terminator" Zone, e.g., after the front door is opened the closed and the push to set button has been pressed.

3 Deferred

When the exit mode is started, the selected area will arm after the "Exit Delay" timer has expired. However, if a Zone off the exit route is activated during this period, the "Exit Delay" timer is suspended whilst the Zone is active.

4 Instant

The selected area will arm instantly.

Area Part Arm Mode

This set of options control how the selected area is part armed when the user part arms the selected area.

0 Final Exit

When the exit mode is started, the selected area will only arm after the activation of a "Final Exit 1" or "Final Exit 2" Zone type, e.g., after the front door is opened and then closed.

1 Timed Exit

When the exit mode is started, the selected area will arm after the "Exit Delay timer" has expired.

2 Terminator

When the exit mode is started, the selected area will only arm after activation of a "Final Exit 1" or "Final Exit 2" Zone type, followed by the activation of an "Exit terminator" Zone, e.g., after the front door is opened the closed and the push to set button has been pressed.

3 Deferred

When the exit mode is started, the selected area will arm after the "Exit Delay" timer has expired. However, if a Zone off the exit route is activated during this period, the "Exit Delay" timer is suspended whilst the Zone is active.

4 Instant

The selected area will arm instantly.

Area Attributes

This set of configuration options controls the operation of each area.

01 Chain 2 = Inactivity

- ☑ The Inactivity timers are reset after a disarm event if using the output type 'Inactivity' as part of Chain 2.
- ☐ Outputs function as normal.

02 Enable Entry Confirm

- ☑ Entry alarms contribute towards a confirmed alarm when disarming with a code.
- ☐ Confirmed alarms report as per the BS Standards

03 Local Exit Tone

- ☑ If the exit tone is enabled, the exit tone is only generated from the remote keypad that was used arm the selected area.
- ☐ If the exit tone is enabled, the exit tone is generated from all devices assigned to selected area.

04 Anti-Masking when Armed

- ☑ Anti-Masking faults are only monitored when the selected area is armed.
- ☐ Anti-Masking faults are monitored at all times for the selected area.

05 Exit when Ready

- ☑ The area will only start the arming procedure once all associated Zones are secure
- ☐ The area will arm as normal.

06 Chime = Chain 1

- ☑ The chime feature is enabled / disabled by Chain 1.
- ☐ The chime feature is enabled / disabled by the user.

07 Enable Walk Squawk

- ☑ The bell output is pulsed once for a very short period when a Zone is activated during a walk test in the selected area.
- ☐ The bell output operates as normal for the selected area.

08 Enable Walk Voice

- ☑ The Zone and number (e.g., "Zone 10") is announced through the loudspeaker when a Zone is activated during a walk test in the selected area.
- ☐ No voice is played during walk test.

09 Alarm & Tamp=Confirm

- ☑ Alarms and tampers from different zones will count towards a confirmed alarm.
- ☐ Tampers from zones will not contribute towards confirmed alarms.

10 BS entry stray logic

- ☑ The entry logic will work as defined in BS8243.
- ☐ BS8243 entry logic is not enforced.

11 Disarm only with tag

- ☑ An NFC tag must be used to disarm the area.
- ☐ A passcode or NFC tag may be used to disarm the area. NOTE: This option will disable transmission of a confirmed alarm if "entry" has started.

12 No Coms if Eng. On site

- ■ If an engineer is logged on to the control panel no communications will be signalled to the ARC.
- □ All signals will be sent as required.

13 No Silent Confirmation Tone

- ■ There will be no confirmation tone when an area has been armed silently.
- □ There will be an audible confirmation tone when an area has been armed silently.

Arm Control

Area arming control attributes, specifying when the area can be armed.

01 Arm with NO AC

- ■ The selected area can be armed when the mains supply is switched off.
- □ The selected area cannot be armed when the mains supply is switched off.

02 Arm with ATS Flt

- ■ The selected area can be armed with an Alarm Transmission Fault, ATS (telephone line fault).
- □ The selected area cannot be armed with an ATS fault present.

03 Auto Part Arm 1

- ■ The selected area automatically performs a 'Part Arm 1' if the user does not activate a Final Exit Zone within the 'Exit Delay' time window.
- □ The selected area will always perform a Full Arm.

04 Enable Auto Arming

- ■ The area will 'Auto Arm' after a successful disarm via the 'Auto Re-arm' timer.
- □ The area will operate as normal.

05 Enable Remote Arming

- ■ The area can be remotely armed / disarmed by using phone apps, touch tone phone & UDL.
- □ The area can only be armed locally.

06 Check Users on Site

- ■ For each user that presents their tag/ enters their code the system will keep a log of which users are still on site (Day mode - scroll left for 'View Users on Site') once all users are off site the system can auto arm after the 'Auto re-arm delay' - in 'System Timers').
- □ The system will respond as normal i.e. only arm when a user requests the system to arm.

Area Engineer Control

Area engineer attributes, specifying when the area can be rearmed or accessed by the engineer.

01 Enable Engineer Access

- ■ The user must grant engineer access to the system.
- □ The Engineer can always access the system (Apart from when armed).

02 Alarm Engineer Reset

- ■ After any Alarm condition the system will need to be reset by the Engineer and cannot be reset by a User.
- □ The system may be reset by a user following an Alarm condition.

03 Confirm Engineer Reset

- ■ After a Confirmed Alarm condition the system will need to be reset by the Engineer and cannot be reset by a user.
- □ The system may be reset by a user following a Confirmed Alarm condition.

04 Tamper Engineer Reset

- ■ After a Tamper condition the system will need to be reset by the Engineer and cannot be reset by a User.
- □ The system may be reset by a user following a Tamper condition providing the system no longer has an existing Tamper fault.

05 Faults Engineer Reset

- ■ After a Fault condition the system will need to be reset by the Engineer and cannot be reset by a User.
- □ The system may be reset by a user following a Fault condition providing the system no longer has an existing Fault.

06 AC/ATS Fault Eng Reset

- ■ An AC or ATS fault on the system will require an Engineer to reset and cannot be reset by a User.
- □ An AC or ATS fault on the system may be reset by a User following a Fault condition providing the system no longer has an existing Fault.

Area Bell Control

This set of configuration options controls the external bell's operation and communications.

01 Bell on Arm Fail

- ■ If the area fails to arm the external bell will trigger.
- □ If the area fails to arm only internal sounders will trigger.

02 Strobe on Full Arm

- ■ When the selected area is fully armed the strobe will pulse for 3 seconds.
- □ The strobe will not pulse when an area is fully armed.

03 Bell if ATS Faulty

- ■ If the communication device suggests ATS Fault the external bell will trigger.
- □ If the communication device suggests ATS Fault the external bell will not trigger.

04 Full Bell Squawk

- ■ When the selected area is full armed the external bell will trigger for 2 seconds.
- □ The external bell will not trigger to indicate the area is fully armed.

05 Part Bell Squawk

- ■ When the selected area is part armed, the external bell will trigger for 2 seconds.

☐ The external bell will not trigger to indicate the area is part armed.

06 Part Disables Bell

☑ When the area is part armed, the external bell will not trigger for alarm conditions, only internal sounders.

☐ The external bell will sound for alarm conditions when the area is part set.

07 Disarm Alarm = No Bell

☑ When the selected area is disarmed, 24-hour alarms will only activate the internal sounders.

☐ When the selected area is disarmed, 24-hour alarms will activate both the internal and external sounders.

08 Disarm Tamper = No Bell

☑ When the selected area is disarmed, tamper alarms will only activate the internal sounders.

☐ When the selected area is disarmed, tamper alarms will activate both the internal and external sounders.

09 Part Disables Coms

☑ When the selected area is part armed, alarm events will not be sent to Alarm Receiving Centre (ARC).

☐ Alarm events will be sent as normal.

10 Disarm = No Coms

☑ When the selected area is disarmed, system events will not be sent to Alarm Receiving Centre (ARC).

☐ All events will be sent as normal.

11 Bell on Confirmed

☑ The external sounder will sound on a confirmed alarm but will not sound on a single intruder alarm activation.

☐ The external sounder will sound on a single intruder alarm activation.

12 Strobe on Part Arm

☑ When the selected area is part armed the strobe will pulse for 3 seconds.

☐ The strobe will not pulse when an area is part armed.

Key Control

This set of configuration options controls the operation of keyswitch zone types in conjunction with area arming.

01 Keyswitch Silent Arm

☑ A keyswitch zone will arm silently.

☐ A Keyswitch Zone will operate the area as normal.

02 Keyswitch Disable if Armed

☑ A Keyswitch Zone will not operate whilst the area is armed.

☐ A Keyswitch Zone will operate the area as normal.

03 Keyswitch Instant Arm

☑ A Keyswitch Zone will cause the area to arm instantly.

☐ A Keyswitch will follow the arming mode for the area.

04 BS Key Fob Exit

☑ When enabled a Wireless key fob will start the exit procedure and will require a zone programmed as 'final exit' to be activated and secured OR a keypress on a keypad to finalise the arming procedure to conform with BS-8243.

☐ A key fob will start a timed exit, pressing the arm key a second time will cancel the exit delay and arm instantly.

05 BS Key Fob Entry

☑ A Wireless key fob cannot disarm the system until an entry time has been started to comply with BS-8243.

☐ The system can be disarmed from a Wireless Key fob regardless of entry

Timer Control

This set of configuration options allows the area to be armed/ disarmed with a control timer.

01 Arm with Control Timer 1

☑ The selected area will arm with control timer 1

☐ The area will operate as normal.

02 Arm with Control Timer 2

☑ The selected area will arm with control timer 2

☐ The area will operate as normal.

03 Arm with Control Timer 3

☑ The selected area will arm with control timer 3

☐ The area will operate as normal.

04 Arm with Control Timer 4

☑ The selected area will arm with control timer 4

☐ The area will operate as normal.

05 Disarm with Control Timer 1

☑ The selected area will disarm with control timer 1

☐ The area will operate as normal.

06 Disarm with Control Timer 2

☑ The selected area will disarm with control timer 2

☐ The area will operate as normal.

07 Disarm with Control Timer 3

☑ The selected area will disarm with control timer 3

☐ The area will operate as normal.

08 Disarm with Control Timer 4

☑ The selected area will disarm with control timer 4

☐ The area will operate as normal.

Common Area

This menu allows for a common area to be set up for systems that require a multi-access entry route.

Areas selected in this menu will operate as follows:

▶ When all assigned areas are armed, the common area will automatically arm itself.

▶ When any one assigned area is disarmed, the common area will automatically disarm itself.

01 Area 1

☑ Area 1 contributes towards the common area.

☐ Area 1 will not contribute towards the common area.

02 Area 2

☑ Area 2 contributes towards the common area.

☐ Area 2 will not contribute towards the common area.

03 Area 3

☑ Area 3 contributes towards the common area.

☐ Area 3 will not contribute towards the common area.

04 Area 4

☑ Area 4 contributes towards the common area.

☐ Area 4 will not contribute towards the common area.

05 Area 5

☑ Area 5 contributes towards the common area.

☐ Area 5 will not contribute towards the common area.

Silent Exit

This menu allows the exit/setting tones for each arming mode to be individually enabled or disabled.

Full Set

☑ The area's exit tone remains silent during full exit mode.

☐ The area's exit tone remains audible during full exit mode.

Part 1

☑ The area's exit tone remains silent during Part set 1.

☐ The area's exit tone remains audible during Part set 1.

Part 2

☑ The area's exit tone remains silent during Part set 2.

☐ The area's exit tone remains audible during Part set 2.

Part 3

☑ The area's exit tone remains silent during Part set 3.

☐ The area's exit tone remains audible during Part set 3.

Area Account Number

Each area can be assigned a unique account number to be transmitted to an ARC as opposed to a single account number for the full system.

Area Timers 03

This section covers the programming for each area timer.

01 Exit delay

This timer controls the area's exit time (The area must be programmed as "Timed Exit" to utilise this timer)

Default = 30 Seconds - (0-255 seconds)

02 Entry 1 time

This timer controls the area's entry time when a Zone programmed as "Final Exit 1" is activated

Default = 45 Seconds - (0-255 seconds)

03 Entry 2 time

This timer controls the area's entry time when a Zone programmed as "Final Exit 2" is activated

Default = 45 Seconds - (0-255 seconds)

04 2nd entry time

This timer controls the duration between an entry Zone causing an alarm condition and external bells and communications being triggered.

Default = 00 Seconds - (0-255 seconds)

05 Settle time

Provides additional exit time to allow for detectors that may still be active when the system is armed by Final Exit.

Default = 08 Seconds - (0-255 seconds)

06 Bell Delay

This timer controls the delay between an intruder event occurring and the external bell triggering.

Default = 00 Minutes - (0-255 minutes)

07 Bell Rings for

This timer controls the duration the bell will sound for following an activation.

Default = 15 Minutes - (0-255 minutes)

08 Coms Delay

This timer controls the delay between an intruder alarm event occurring and the communications being sent to the relevant location.

Default = 00 Minutes - (0-255 seconds)

09 Strobe Timeout

This timer controls the duration the strobe will be activated for following an activation. A setting of 00 will activate the strobe until a valid user code has been entered.

Default = 00 Minutes - (0-255 minutes)

System Text 04

This section covers all areas where text can be programmed into the system. All text may also be programmed in its relevant section i.e. Zone Text can also be programmed from 'Zone Programming'. This menu is simply a method of group programming all text on the system.

System Messages

Within this menu, the systems banner message and engineer required message may be programmed.

1 Banner

The banner text allows you to customise the text that is displayed on all keypads. The "Keypad Banner" is displayed on the top line when the system is armed and disarmed.

2 Call Engineer

The call engineer message will display for any options programmed to require engineer's attention e.g. 'Call 0123456789 to reset'

3 Company Name

The company name is displayed on the information screen.

4 Day time Telephone No

The company telephone number is displayed on the information screen.

5 Emergency Telephone No

The emergency telephone number is displayed on the information screen.

6 Info 1

Additional information that is displayed on the information screen.

7 Info 2

Additional information that is displayed on the information screen.

8 Site ID

This information is used in the Orisec Apps to identify the site name e.g. 'My House'.

9 Panel Location text

The location of the panel is displayed on the information screen.

10 Company ID

This is how to display a logo on the ControlPlus App. A unique identifier (e.g. XXX Alarms) needs to be entered and a logo with the same name emailed to Support@orisec.co.uk. When the panel connects to the cloud, the logo will then be displayed in the ControlPlus App.

Remote output Text

Within this menu, the remote-controlled outputs can be given user friendly names, e.g., 'Garden Lights'.

Area Text

Each area can be assigned a 20 character label that is displayed on all keypads when viewing the area, area status and event log.

Part Arm Text

This menu allows text to be added to describe the three system part arms.

1 Part Arm 1 Text

Replaces the text 'Part Arm 1' with the text entered here.

2 Part Arm 2 Text

Replaces the text 'Part Arm 2' with the text entered here.

3 Part Arm 3 Text

Replaces the text 'Part Arm 3' with the text entered here.

Zone Text

Each Zone can be assigned a 20-character label that is displayed on all keypads when viewing the Zone status and event log.

User Name

Each user on the system can be assigned a 12-character label that is displayed when viewing the event log, scrolling through programmed users and displayed if 'Welcome message' is enabled.

System Text

This menu allows the system hardware and testing menus to be named.

1 Aux

Replaces the text 'Auxiliary Tamper' with the text entered here.

2 User Test

Replaces the text 'User Outputs' with the text entered here. This is displayed in the User Test option in the user menus.

User Setup 05

This section covers programming of the system users.

The CP-30 has 30 programmable users, the CP-50 has 50 programmable users, the CP-100 has 100 programmable users and the CP-200 has 200 programmable users.

User 0 is the "Engineer" at default which has a default code of 1234.

User 1 is the "Master user" at default which has a default code of 5678.

The remaining users can be programmed to any user type and default to "Not in Use".

User and Engineer Codes

Each user can be assigned an access code, NFC tag and/or wireless key fob to operate the system. Access codes may be 4, 5 or 6 digits in length.

If a code is already existent within the system or the code length is incorrect (i.e. 0-3 digits) the system will reject the code and leave the code field blank.

User Type

The user type defines the level of access the user has when operating the security system. This option allows the selected user type to be assigned. User types for User 00 (Engineer) and User 01 (Master User) should not be changed.

0 Not in Use
The selected user is not in use.

1 Engineer
The selected user is an Engineer and can access all options within the engineer's program menu.

2 Technician
The selected user is a Technician and can access most options within the engineer's program menu. A Technician is not able to: edit 'Banner' message/ Add Engineers/ edit 'ARC number' and change 'call engineer' message.

3 Master
The selected user is a Master user and can access all options within the user menu and program new users.

4 Manager
A Manager user can access all options within the user menu except the 'Change settings' menu.

5 Standard
A Standard user can access the following options from the user menu: 'Full arm system', 'Part arm', 'Area full arm', 'Change my code' and 'Reset alarms'.

6 Local Standard
Local Standard user has the same rights as a Standard User. However, a Local Standard user can only arm and disarm areas that are assigned to both their code and keypad. For example, if the user is assigned to all areas, and keypad 1 is assigned to area 1, then the user can only arm and disarm area 1 from keypad 1.

7 Duress
The selected user is a Duress user and operates the same as a standard user, however, on entering the access code a silent duress alarm is generated and if programmed, the event is signalled to the alarm receiving centre.

8 Arm Only
The selected user is an Arm Only user and can only access the arming options within the user menu.

9 Disarm Only
A Disarm only user can only access the disarming options within the user menu.

10 Access Control
If the selected user is 'Access Control' the user is being used for access control - no menus or privileges are assigned to the user. Upon entering the code outputs programmed as 'Door Access' will trigger for the duration of the 'Access timer'

The 'Door Access' attribute will need to be assigned in 'User Options' to be able to trigger any outputs programmed as 'Door Access'

11 Access Latching
If the selected user is 'Access Latching' the user is being used for access control - no menus or privileges are assigned to the user – upon entering the code outputs programmed as 'Door Access' will trigger and latch on until a Master User code is entered.

The 'Door Access' attribute will need to be assigned in 'User Options' to be able to trigger any outputs programmed as 'Door Access'

User Name

Each user can be assigned a 12-character label that is recorded in the system event log, displayed when scrolling through programmed users and displayed if the 'Welcome message' is enabled.

User Areas

Each user must be assigned to one or more areas for them to access the required area of protection. Users that are assigned to multiple areas will be given the option to select the areas they want to arm or disarm.

By default all users are assigned to area 1 only.

User Options

User options add additional attributes for individual users

1 Key fob PA 1+2

- ■ Pressing buttons 1 and 2 simultaneously on a wireless key fob will trigger a PA condition.
- □ Pressing buttons 1 and 2 simultaneously on a wireless key fob will not trigger a PA condition.

2 Part arm only

- ■ The selected user can only part arm the system
- □ The selected user can full and part arm the system

3 Auto yes

- ■ When the code is entered, the area will instantly begin arming without the need to press Enter.
- □ The user must press Enter after accessing the menus to arm the system.

4 Silent full arm

- ■ The selected user will silently full arm the system.
- □ When the selected user full arms the system, the speakers are active during the exit procedure.

5 Silent part arm

☑ The selected user will silently part arm the system.

☐ When the selected user part arms the system, the speakers are active during the exit procedure.

6 Door Access

☑ When the selected user enters their code, or presents their tag any outputs programmed as 'Door Access' will trigger.

☐ The selected user will function as normal.

7 Code + Tag

☑ The selected user must enter their access code and present their NFC tag to gain access to the system

☐ The selected user can access the system with either their access code or NFC tag.

8 Simple key fob

☑ When using a wireless key fob the 'Arm' button will only be used to full arm the areas assigned to the user.

☐ When using a wireless key fob the 'Arm' key has the ability to Full arm, Part arm 1, Part arm 2 and Part arm 3.

8 Key fob MA 1+2

☑ Pressing buttons 1 and 2 simultaneously on a wireless key fob will trigger a medical alarm condition.

☐ Pressing buttons 1 and 2 simultaneously on a wireless key fob will not trigger a medical alarm condition.

Doors

'Doors' are used as a quick and simple access control solution; a keypad is associated with a Door.

By enabling a Door on the selected user, once a valid code or tag has been presented by the user, output 1 on the keypad will trigger for the duration of the 'Access timer'.

NFC

Any NFC (Near Field Communication) tag can be assigned to the system for use. NFC is a protocol found in everyday devices such as smart phones, bank cards, gym keys, oyster cards, tablets and more.

With the NFC option selected, either key in the NFC tag serial number (if known) or present the tag to the NFC reader ( ) on the keypad. If successful, the NFC tag serial number is shown on the display.

Entering a number of 1-8 digits in length to the NFC field for the main engineer (User 0) will allow for the 'Code of the Day" mode of operation to function. For additional information please see INS076 "Code of the Day" instruction manual.

Key Fob

With the key fob option selected, either key in the Wireless key fob serial number or press button 1 on the key fob.

The key fob will now be learnt to the control panel and will function as per the programming for selected user.

Locked by chain

The users access can be locked out using custom programmed 'Chains'. Please see page 75 for more information

User Language

Each user may have its own individual language for the menus. This can be set separately for all users on the system. Languages currently include:

- English (UK)
- Spanish
- Italian
- Dutch
- French

Button 1

Button 1 on a wireless keyfob can be programmed for any of the following operations: Full arm/ Part arm 1/ Part arm 2/ part arm 3/ Disarm/ Remote Control 1/ Remote Control 2/ Remote Control 3/ Remote Control 4/ Remote Control 5/ Arm Area X/ Disarm area X.

'X' denotes the last area of the control panel.

Button 2

Button 2 on a wireless keyfob can be programmed for any of the following operations: Full arm/ Part arm 1/ Part arm 2/ part arm 3/ Disarm/ Remote Control 1/ Remote Control 2/ Remote Control 3/ Remote Control 4/ Remote Control 5/ Arm Area X/ Disarm area X.

'X' denotes the last area of the control panel.

Button 3

Button 3 on a wireless keyfob can be programmed for any of the following operations: Full arm/ Part arm 1/ Part arm 2/ part arm 3/ Disarm/ Remote Control 1/ Remote Control 2/ Remote Control 3/ Remote Control 4/ Remote Control 5/ Arm Area X/ Disarm area X.

'X' denotes the last area of the control panel.

Button 4

Button 4 on a wireless keyfob can be programmed for any of the following operations: Full arm/ Part arm 1/ Part arm 2/ part arm 3/ Disarm/ Remote Control 1/ Remote Control 2/ Remote Control 3/ Remote Control 4/ Remote Control 5/ Arm Area X/ Disarm area X.

'X' denotes the last area of the control panel.

Panel Outputs 06

This section covers programming for all available outputs on the system.

On the CP-100 there are a total of 145 outputs available, this is achieved via expanders (total of 90 outputs), keypads (total of 30 outputs) control panel (total of 20) and ZX-5C (total of 5 outputs).

On the CP-50 there are a total of 95 outputs available, this is achieved via expanders (total of 40 outputs), keypads (total of 30 outputs) control panel (total of 20) and ZX-5C (total of 5 outputs).

On the CP-30 there are a total of 45 outputs available, this is achieved via expanders (total of 15 outputs), keypads (total of 15 outputs) control panel (total of 10) and ZX-5C (total of 5 outputs).

On the CP-200 there are a total of 275 outputs available, this is achieved via expanders (total of 190 outputs), keypads (total of 60 outputs) control panel (total of 20) and ZX-5C (total of 5 outputs).

System Type

This output type allows programming for all system items such as Mains failures, Alarms and Arming events.

00 Not used
The selected output is not in use.

01 AC Fault
If selected, this output will trigger when an AC fault is present on the system and the "AC fault" timer has expired.

02 ATS Fault
If selected, this output will trigger when an ATS (Alarm transmission) fault is present on the system and the "ATS delay" timer has expired.

03 Disarmed
If selected, this output will trigger when the system is in the disarmed condition.

04 Just Disarmed
If selected, this output will trigger for 5 seconds when the system has just been disarmed.

05 Armed
If selected, this output will trigger when the selected area is either full armed or part armed. (Note also panel output type 94 which will trigger when the selected area is full armed only.)

06 Part Armed
If selected, this output will trigger when the selected area is part armed.

07 Armed/ Alarmed
If selected, this output will trigger when the selected area is armed. If the area enters an alarm condition the output will pulse every second until the area is disarmed.

08 Bell Active
If selected, this output will mimic the external bell.

09 Strobe Active
If selected, this output will mimic the external strobe.

10 Alarm
If selected, this output will trigger when any type of intruder alarm is activated and reset once the alarm has been reset.

11 Confirmed Alarm
If selected, this output will trigger when the system generates a confirmed alarm (Activation of two different intruder Zones within the "Confirmation delay" time window) and will reset once the alarm is reset.

12 Confirmed PA
If selected, this output will trigger when the system generates a confirmed PA (Activation of two different PA zones within the PA Confirmed time window or a single Confirmed PA zone) and will reset once the alarm is reset.

13 Alarm Abort
If selected, this output will trigger if an alarm occurs and is cancelled by a user within the "abort delay" time window.

14 Fire Alarm
If selected, this output will trigger if a Zone programmed as Fire activates or if Fire keys are activated from an RKP (if enabled).

15 PA Alarm
If selected, this output will trigger if a Zone programmed as PA activates or if PA keys are activated from an RKP (if enabled).

16 Duress Alarm
If selected, this output will trigger if a user programmed as "Duress" enters their code/ presents their tag and will reset when a different user resets the silent alarm condition."

17 24hr Alarm
If selected, this output will trigger when a Zone programmed as "24hr Hour" becomes active, the output will reset once a user has reset the alarm condition.

18 Medical Alarm
If selected, this output will trigger if a Zone programmed as Medical activates or if Medical keys are activated from an RKP (if enabled).

19 Tamper Alarm
If selected, this output will trigger when any tamper on the system is activated (Zone/ Panel lid/ RKP/ Expander etc.) and restores once a valid user has reset the alarm.

20 Ready
If selected, this output will trigger when the system is ready to be set – no activate Zones, no faults or tampers.

21 Fault Alarm
If selected, this output will trigger when a Zone programmed as "Fault" activates and will restore once a user has reset the alarm.

22 Alert
If selected, this output will trigger when there is an 'Alert' message on the keypad. Whilst an alert message is present the system emits an error tone every 30 seconds.

23 Zones Omitted
If selected, this output will trigger when a zone or a collection of zones are omitted from the system (manually or automatically) and restore once all Zones are reinstated.

24 Zone on Soak Test
If selected, this output will trigger when a Zone is on soak test.

25 In Walk Test
If selected, this output will trigger when the system is in walk test mode and restore once walk test has ended.

26 Flash 1 Sec
If selected, this output will trigger every second and restore a second later regardless of system status.

27 User Test Active
If selected, this output will trigger when a user activates "User outputs" (User code/tag > System Tests > Test Bell and Strobe > User outputs) and will restore once a user has left the menu.

28 PSTN Fault
If selected, this output will trigger when a PSTN fault is active and restore once the PSTN fault has been cleared.

29 PSTN off Hook
If selected, this output will trigger when the PSTN line is engaged and will restore once the PSTN line is normal.

30 PSTN Ringing
If selected, this output will trigger when using a PSTN module and the unit is ringing out to the ARC/ speech dialler contact.

31 Battery Fault
If selected, this output will trigger when the system generates a battery fault and will restore once the battery fault has been rectified.

32 Box Tamper Fault
If selected, this output will trigger when the panel's box lid tamper is active and will restore once the box lid tamper has been restored.

33 Aux Tamper Fault
If selected, this output will trigger when the panel's Aux Tamper terminals go open circuit.

34 Bell Tamper Fault
If selected, this output will trigger when the panel's bell tamper is active and will restore once the bell tamper has been restored.

35 Engineer On-Site
If selected, this output will trigger when the engineer is on site and will restore once the engineer has logged out.

36 Detector Reset
If selected, this output is always active and deactivates for 2 seconds when the area is in exit mode.

37 Detector Latch
If selected, this output will activate for 2 seconds when the area is in exit mode. Once the area is armed this output will remain triggered and restore once the area is disarmed.

38 Detector Test
If selected, this output will be used to test detectors from a remote activation on engineering apps or UDL software.

39 System Low Volts
If selected, this output will trigger when the system detects low DC voltage from the main control panel.

40 In Exit
If selected, this output will trigger when the area is in exit mode and restore whilst the system is in armed/ day mode operation.

41 In Entry
If selected, this output will trigger when the area is in entry mode and restore whilst the system in armed/ day mode operation.

42 In 2nd Entry
If selected, this output will trigger when the entry timer has expired and an internal alarm has occurred causing the 2nd entry timer to be started, the output will restore at the end of the 2nd entry timer.

43 In Alarm
If selected, this output will trigger when the area is in alarm condition and will restore once a user has reset the alarm condition.

44 Auxiliary Alarm
If selected, this output will trigger when a Zone programmed as "Auxiliary" becomes active and will restore once a user has reset the Auxiliary alarm condition.

45 Warning Alarm
If selected, this output will trigger when a Zone programmed as "Warning" has caused an alarm condition (Zone has remained active for the duration of the "Warning delay" timer) and will restore once a user has reset the alarm condition.

46 Keypads Locked
If selected, this output will trigger when a Zone programmed as "Security key" becomes active and will restore upon the Zone restoring.

47 Output Fault
If selected, this output will trigger when a monitored panel output (if enabled) registers a fault and will restore once the fault has been cleared.

48 Call Engineer
If selected, this output will trigger when there is an event that requires the engineer's attention i.e. a tamper event.

49 Device Fault
If selected, this output will trigger when a Zone is in 'fault' state (only when using TEOL wiring) and will restore once the fault condition has cleared.

50 Service Required
If selected, this output will trigger when the "Service" timer on the control panel has expired.

51 Cleaner Omitted
If selected, this output will trigger when a cleaner code is entered and omits any zones. The output will restore once the zones have been restored.

52 2-Wire Smoke
If selected, this output will trigger when a 2 wire smoke device is activated and will restore once the device has become secure.

53 2-Wire Smoke Alarm
If selected, this output will trigger when a 2 wire smoke detector causes an alarm activation and will restore once a user has reset the alarm.

54 2-Wire Smoke Fault
If selected, this output will trigger when a 2 wire smoke detector causes a fault activation and will restore once a user has reset the fault condition.

55 Door Access
If selected, this output will trigger when a user programmed as "Access" enters their code and will remain active for the duration of the "Access" time window.

56 Alarm Test
If selected, this output will trigger when a user or engineer tests the speakers on the control panel (Test and Diagnostics > Test bell & strobe > Speaker) and will restore once testing has been finished.

57 Panel AC on
If selected, this output will trigger when the panel's AC is on and will switch off when the panel's AC is removed.

58 Reset Active
If selected, this output will trigger when a user selects to 'Reset Alarms' for 8 seconds.

59 Arming Failed
If selected, this output will trigger when the system arm fails and will restore once a user has reset the alarm condition.

60 Confirm Devices
If selected, this output will trigger when the system suggests 'Confirm Devices'. This will happen when a new device is added to the system, or an existing device is removed from the system.

61 Part 1
If selected, this output will trigger when the area is armed in Part Set 1. The output will restore once the area has been disarmed.

62 Part 2
If selected, this output will trigger when the area is armed in Part Set 2. The output will restore once the area has been disarmed.

63 Part 3
If selected, this output will trigger when the area is armed in Part Set 3. The output will restore once the area has been disarmed.

64 PSTN Successful
If selected, this output will trigger when PSTN communications are sent successfully and a handshake is received as confirmation.

65 PSTN Failed
If selected, this output will trigger when PSTN communications fail to send to the required destination.

66 Coms Module Fault
If selected, this output will trigger when the ZX-5C develops a fault and will restore once a user has cleared the fault.

67 Random Output
If selected, this output will trigger for the durations programmed by the minimum and maximum random timers.

68 Message Waiting
If selected, this output will trigger when there is a message waiting to be acknowledged and played back.

69 Clock Alarm
If selected, this output will trigger when the programmed alarm clock is active. The output will restore once the user has acknowledged and turned the alarm clock off.

70 Timer Alarm
If selected, this output will trigger when the programmed timer alarm is active. The output will restore once the user has acknowledged the timer alarm condition.

71 Code Tamper
If selected, this output will trigger when a user enters the incorrect code 15 times.

72 EN50131 Fault
If selected, this output will trigger when there is an issue with EN50131 requirement.

73 Aux Fuse Fault
If selected, this output will trigger when the Aux fuse fails.

74 Bell Fuse Fault
If selected, this output will trigger when the Bell Fuse fails.

75 Net Fuse Fault
If selected, this output will trigger when the Network fuse fails.

76 Remote Test
If selected, this output will trigger when a remote test is requested via UDL software.

77 Bell Backlight
If selected, this output will trigger when a network bell backlight is on.

78 Bell Power Off
If selected, this output will trigger when the bell terminal's power has been manually disabled (CP-50 and CP-100 only).

79 Bell Fault
If selected, this output will trigger when a grade 3 bell has a fault.

80 Expander Fault
If selected, this output will trigger when an expander has a fault.

81 Expander Tamper
If selected, this output will trigger when an expander has a tamper condition.

82 Keypad Tamper
If selected, this output will trigger when a keypad has a tamper condition.

83 Chime Enabled
If selected, this output will trigger when the chime on a selected area is enabled.

84 Zone activity
If selected, this output will trigger when a zone with the Inactivity Warning attribute is inactive for the duration of the Inactivity time.

85 Flood Alarm
If selected, this output will trigger when a zone programmed as "Flood 24 Hour" is activated.

86 CO Alarm
If selected, this output will trigger when a zone programmed as "CO 24 Hour" is activated.

87 Key fob exit
If selected, this output will activate once a wireless keyfob has been used to start the exit procedure, with 'BS keyfob exit' enabled.

88 Comfort LEDs
If selected, this output will trigger when the 'Comfort LEDs' chain is active.

89 Wireless LEDs
If selected, this output will trigger when the 'Wireless LEDs' chain is active.

90 Wireless Sleep
If selected, this output will trigger when the 'Wireless Sleep' chain is active.

91 General Fault
If selected, this output will trigger when the system is in fault condition, i.e. Mains failure, Battery Failure, PSU Mains failure, PSU Battery failure, Bell fault.

92 Zone Re-arm Lock
If selected, this output will trigger when a zone's re-arm lock counter has been exceeded.

93 Instant Alarm
If selected, this output will trigger once the end user has part armed the system and pressed the "Part" button.

94 Full Armed
If selected, this output will trigger once the area is fully armed (but not when it is part armed).

95 Users On Site
If selected, this output will trigger once a user or group of users are on Site.

For each user that presents their tag/ enters their code the system will keep a log of which users are still on site (Day mode - scroll left for 'View Users on Site').

Once all users are logged off the output will switch off.

Control Type
This output type follows the programmable control timers in the control panel.

1 Control Timer 1
If selected, this output will trigger for the duration of control timer 1, this timer is programmed in the following location (Programming Menu > Control Timers > control timer 1)

2 Control Timer 2
If selected, this output will trigger for the duration of control timer 2, this timer is programmed in the following location (Programming Menu > Control Timers > control timer 2)

3 Control Timer 3
If selected, this output will trigger for the duration of control timer 3, this timer is programmed in the following location (Programming Menu > Control Timers > control timer 3)

4 Control Timer 4
If selected, this output will trigger for the duration of control timer 4, this timer is programmed in the following location (Programming Menu > Control Timers > control timer 4)

5 Control Timer 5
If selected, this output will trigger for the duration of control timer 5, this timer is programmed in the following location (Programming Menu > Control Timers > control timer 5)

Remote Type
This output type follows the remote controlled outputs.

1 Remote Control 1
If selected, this output will trigger when a user activates Remote Control 1. Remote Control 1 can be activated via the quick keys on the keypad, via a wireless key fob or through the Orisec App.

2 Remote Control 2
If selected, this output will trigger when a user activates Remote Control 2. Remote Control 2 can be activated via the quick keys on the keypad, via a wireless key fob or through the Orisec App.

3 Remote Control 3
If selected, this output will trigger when a user activates Remote Control 3. Remote Control 3 can be activated via the quick keys on the keypad, via a wireless key fob or through the Orisec App.

4 Remote Control 4
If selected, this output will trigger when a user activates Remote Control 4. Remote Control 4 can be activated via the quick keys on the keypad, via a wireless key fob or through the Orisec App.

5 Remote Control 5
If selected, this output will trigger when a user activates Remote Control 5. Remote Control 5 can be activated via the quick keys on the keypad, via a wireless key fob or through the Orisec App.

Chain
A 'Chain' is a feature which allows customised output programming when a combination of conditions and events occur. There are a total of 20 chains which may each be individually programmed to have multiple 'AND' or 'OR' logic gates or a combination of the two.

Count Reached
If selected, this output will trigger when the selected Zone has reached the 'Count Warning' value (System Options > Counters > Count Warning) the Zones current active counts may be viewed in the following location (Tests& Diagnostics > View Zone Status).

Zone Mimic
If selected, this output will trigger when the selected Zone becomes active regardless of its Zone type (Including the Zone type 'Not Used')

Zone Alarm
If selected, this output will trigger when the selected Zone enters an alarm state and will restore once the alarm condition is reset.

Zone Tamper
If selected, this output will trigger when the selected Zone enters a tamper state and will restore once the tamper condition is reset.

Zone Masked
If selected, this output will trigger when the selected Zone enters a masked state (TEOL wiring type) and will restore once the masked condition is reset.

Zone Fault
If selected, this output will trigger when the selected Zone enters a fault state (TEOL wiring type) and will restore once the fault condition is reset.

Zone Omitted
If selected, this output will trigger when the selected Zone is omitted (Manually or automatically) and will restore once the Zone is reinstated (Manually or automatically).

Zone Inactive
If selected, this output will trigger when the selected zone with the inactivity attribute is inactive for the duration of the inactivity timer.

Zone Resistance
If selected, this output will trigger when the selected Zone reaches the resistance value selected (i.e. 5k4) and will restore once the Zone falls below this resistance.

Code Entered
If selected, this output will trigger when the selected user enters their code/ presents their tag and will remain active for the duration of the 'Access timer' (Programming Menu > System options > Timers > Access time)

Light Level Keypad
If selected, this output will trigger when the selected keypad's light level rises above the set light level.

Light Level Expander
If selected, this output will trigger when the selected expander's light level rises above the set light level.

Keypad Temperature
If selected, this output will trigger when the selected keypad's temperature rises above the set temperature.

Expander Temperature
If selected, this output will trigger when the selected expander's temperature rises above the set temperature.

Wireless device Temperature

If selected, this output will trigger when the selected wireless device's temperature rises above the set temperature.

Wireless device Signal Level

If selected this output will trigger when the selected wireless device's Signal level drops below the set value.

Light Level Bell

If selected, this output will trigger when the selected Network sounders (internal or External) light level rises above the set light level.

Temperature Bell

If selected, this output will trigger when the selected Network sounders (internal or External) Temperature rises above the set temperature.

Output Attributes

This set of attributes will relate to the selected output and can control how the output operates.

1 Latch

- ◉ The selected output will only be reset once a valid code has been entered and 'Reset Alarms' has been selected, or an engineer code has been entered.
- ☐ The selected output will restore once its condition has been resolved (e.g. Mains Fail the output will restore once the mains has been reinstated)

2 Invert

- ◉ The selected output will work as 0V removed to trigger.
- ☐ The selected output will work as 0V applied to trigger.

3 User Test

- ◉ Any output with the 'User Test' attribute can be activated by the user in 'System Tests'
- ☐ The selected output will only trigger once the requirement is met.

4 Pulse 1

- ◉ The selected output will activate for the duration of the 'Pulse 1' timer.
- ☐ The selected output operates as normal.

5 Pulse 2

- ◉ The selected output will activate for the duration of the 'Pulse 2' timer.
- ☐ The selected output operates as normal.

6 Delay 1

- ◉ The selected output will be delayed for the duration of the 'Delay 1' Timer.
- ☐ The selected output operates as normal.

7 Delay 2

- ◉ The selected output will be delayed for the duration of the 'Delay 2' Timer.
- ☐ The selected output operates as normal.

08 Armed Only

- ◉ The selected output will only trigger when the system is armed.
- ☐ The selected output operates as normal.

Output Areas

This set of options allows the output areas to be assigned to each of the control panel/ Keypad/ Expander and ZX-5C outputs.

The CP-30 has 3 areas, the CP-50 has 5 areas, the CP-100 has 10 areas and the CP-200 has 20 areas.

1 Area 1

- ◉ The selected output is assigned to area 1.
- ☐ The selected output is not assigned to area 1.

2 Area 2

- ◉ The selected output is assigned to area 2.
- ☐ The selected output is not assigned to area 2.

3 Area 3

- ◉ The selected output is assigned to area 3.
- ☐ The selected output is not assigned to area 3.

4 Area 4

- ◉ The selected output is assigned to area 4.
- ☐ The selected output is not assigned to area 4.

5 Area 5

- ◉ The selected output is assigned to area 5.
- ☐ The selected output is not assigned to area 5.

6 Area 6

- ◉ The selected output is assigned to area 6.
- ☐ The selected output is not assigned to area 6.

7 Area 7

- ◉ The selected output is assigned to area 7.
- ☐ The selected output is not assigned to area 7.

8 Area 8

- ◉ The selected output is assigned to area 8.
- ☐ The selected output is not assigned to area 8.

9 Area 9

- ◉ The selected output is assigned to area 9.
- ☐ The selected output is not assigned to area 9.

10 Area 10

- ◉ The selected output is assigned to area 10.

The selected output is not assigned to area 10.

Keypad Setup 07

This section covers programming of the remote keypads.

Keypad Areas

Keypads must be assigned to one or more areas to ensure correct operation of the system. The keypad areas control the following:

- When the system is in exit mode only the keypads in the areas that are being armed will generate the exit tone.
- When arming one or more areas from a keypad, only the arming modes for the area(s) that are assigned to keypad are applied. The areas that are not assigned are armed instantly. For example, if the keypad is assigned to area 2, and a user request to arm all areas (1-5), areas 1, 3, 4 and 5 arm instantly and the exit mode for area 2 is applied e.g. 30 seconds exit delay.
- When using a "Local Standard" user only the areas assigned to keypad can be armed and disarmed.
- When a lid tamper is activated from the keypad, the tamper alarm is generated for the area(s) assigned to keypad.

1 Area 1

☑ The keypad is assigned to area 1.

☐ The keypad is not assigned to area 1.

2 Area 2

☑ The keypad is assigned to area 2.

☐ The keypad is not assigned to area 2.

3 Area 3

☑ The keypad is assigned to area 3.

☐ The keypad is not assigned to area 3.

4 Area 4

☑ The keypad is assigned to area 4.

☐ The keypad is not assigned to area 4.

5 Area 5

☑ The keypad is assigned to area 5.

☐ The keypad is not assigned to area 5.

The CP-30 has 3 areas, the CP-50 has 5 areas and the CP-100 has 10 areas.

Keypad Attributes

This set of options controls how the selected keypad operates.

1 1 & 3 = Fire

☑ Pressing keys 1 and 3 on the selected keypad at the same time will generate a fire alarm event.

☐ The selected keypad cannot generate fire alarm events.

Touch screen keypads operate differently to generate fire activations. Please refer to the touch screen keypad manual for additional information.

2 4 & 6 = PA

☑ Pressing keys 4 and 6 on the selected keypad at the same time will generate a Personal Attack (PA) alarm event.

☐ The selected keypad cannot generate PA events.

Touch screen keypads operate differently to generate PA activations. Please refer to the touch screen keypad manual for additional information.

3 7 & 9 = Medical

☑ Pressing keys 7 and 9 on the selected keypad at the same time will generate a Medical alarm event.

☐ The selected keypad cannot generate medical alarm events.

Touch screen keypads operate differently to generate medical activations. Please refer to the touch screen keypad manual for additional information.

4 Quick Full Arm

☑ The area can be full armed by pressing the 'Arm' key without the requirement of a user code/ tag/ fob to initialise the setting procedure.

☐ The user passcode must be entered at the selected keypad before the area can be full armed.

5 Quick Part Arm

☑ The area can be Part armed 1 by pressing the 'Part' key without the requirement of a user code/ tag/ fob to initialise the setting procedure.

☐ The user passcode must be entered at the selected keypad before the area can be Part armed.

6 Quick Omit

☑ The Zone omit feature can be invoked at the selected keypad by pressing the 'Omit' key without the requirement of a user code/ tag/ fob.

☐ The user passcode must be entered at the selected keypad before any Zones can be omitted.

7 Quick Chime

☑ Chime for the keypad/ area can be enabled/ disabled by pressing the 'Chime' key

☐ The user passcode must be entered at the selected keypad to enable/ disable chime.

8 Quiet Key Beeps

☑ The keypads button press noise changes to a lower 'blip' tone.

☐ The keypad button press tone remains at its current audio level.

9 No Key Beeps

☑ Key presses from the keypad is silent.

☐ The keypad button press tone remains at its current audio level.

10 Silent PA

☑ The selected keypads PA is silent.

☐ The selected keypads PA is audible.

11 Delayed PA

☑ If the selected keypad's PA function becomes activated a timer will appear on the keypad asking the user to confirm the activation. If 30 seconds elapses and the PA has not been confirmed the system will revert back to day mode and no PA signal will be generated.

☐ The keypad's PA will operate as normal.

12 Enable Tamper

☑ The keypad's tamper is monitored.

☐ The keypad's tamper is not monitored.

13 Enable Code Tamper

■ Entering 15 or more invalid key presses on the selected keypad will generate a code tamper event.

☐ The selected keypad cannot generate code tamper events.

14 Lockout Keypad

■ If the "Enable Code Tamper" option is enabled for the selected keypad, the keypad operation will be locked out for 5 minutes if a code tamper event is generated.

☐ The selected keypad operation remains unchanged.

Keypad Sounds

This set of options controls how the selected keypad generates sounds from its on-board sounder.

1 Alarm Tones

■ The selected keypad generates alarm tones.

☐ The selected keypad will not generate alarm tones.

2 Fault Tones

■ The selected keypad generates fault tones.

☐ The selected keypad will not generate fault tones.

3 Chime Tones

■ The selected keypad generates chime tones.

☐ The selected keypad will not generate chime tones.

4 Entry Tones

■ The selected keypad generates entry tones.

☐ The selected keypad will not generate entry tones.

5 Exit Tones

■ The selected keypad generates exit tones.

☐ The selected keypad will not generate exit tones.

6 Advisory Tones

■ The selected keypad generates advisory tones.

☐ The selected keypad will not generate advisory tones.

7 Tamper Tones

■ The selected keypad generates tamper alarm tones.

☐ The selected keypad will not generate tamper alarm tones.

Keypad Menus

Keypad quick menus can be accessed without the use of an access code or NFC tag, allowing anyone quick access to the selected system features.

1 Control Outputs

■ Pressing ◁ or ▷ keys at the selected keypad allows the user to select the 'Control outputs' menu.

☐ The 'Control outputs' menu is not available for the selected keypad.

2 X-10 Controls

■ Pressing ◁ or ▷ keys at the selected keypad allows the user to select the 'X-10 Controls' menu.

☐ The 'X-10 Controls' menu is not available for the selected keypad.

3 Alarm Clock

■ Pressing ◁ or ▷ keys at the selected keypad allows the user to select the 'Alarm Clock' menu.

☐ The 'Alarm Clock' menu is not available for the selected keypad.

4 Chime Areas

■ Pressing ◁ or ▷ keys at the selected keypad allows the user to select the 'Chime Areas' menu.

☐ The 'Chime Areas' menu is not available for the selected keypad.

5 Phone Messages

■ Pressing ◁ or ▷ keys at the selected keypad allows the user to select the 'Phone Messages' menu.

☐ The 'Phone Messages' menu is not available for the selected keypad.

6 Send SMS Messages

■ Pressing ◁ or ▷ keys at the selected keypad allows the user to select the 'Send SMS messages' menu.

☐ The 'Send SMS Messages' menu is not available for the selected keypad.

7 LCD Messages

■ Pressing ◁ or ▷ keys at the selected keypad allows the user to select the 'LCD Messages' menu.

☐ The 'LCD Messages' menu is not available for the selected keypad.

8 Countdown Timer

■ Pressing ◁ or ▷ keys at the selected keypad allows the user to select the 'Countdown Timer' menu.

☐ The 'Countdown Timer' menu is not available for the selected keypad.

Map Zone 1

Each keypad has three input/output terminals. If the terminal is going to be utilised as a zone input it must first be mapped to any of the zone numbers available on the system.

Scroll or manually enter a zone number for the selected keypad zone to utilise.

Map Zone 2

As Map Zone 1 above.

Map Zone 3

As Map Zone 1 above.

Keypad Outputs 08

Each keypad has three input/output terminals. If the terminal is going to utilized as an output it must be programmed for the required function.

For a full list of output types and attributes please see page 49.

Expander Setup 09

This section covers programming of the remote expanders.

Expander Areas

Expanders must be assigned to one or more areas to ensure correct operation of the system. The expander areas control the following:

- When the system is in exit mode, only the expanders in the areas that are being armed will generate the exit tone.
- When a lid tamper is activated from the expander, the tamper alarm is generated for the area(s) assigned to expander.

1 Area 1

- ■ The selected expander is assigned to area 1.
- ☐ The selected expander is not assigned to area 1.

2 Area 2

- ■ The selected expander is assigned to area 2.
- ☐ The selected expander is not assigned to area 2.

3 Area 3

- ■ The selected expander is assigned to area 3.
- ☐ The selected expander is not assigned to area 3.

4 Area 4

- ■ The selected expander is assigned to area 4.
- ☐ The selected expander is not assigned to area 4.

5 Area 5

- ■ The selected expander is assigned to area 5.
- ☐ The selected expander is not assigned to area 5.

The CP-30 has 3 areas, the CP-50 has 5 areas and the CP-100 has 10 areas.

Expander Attributes

This set of options controls how the selected expander operates.

1 Enable Tamper

- ■ The lid tamper on the selected expander is monitored.
- ☐ The lid tamper on the selected expander is not monitored.

2 Enable on-board speaker

- ■ The on-board speaker on the selected expander is enabled.
- ☐ The on-board speaker on the selected expander is disabled.

3 Monitor Battery (PZX-10 only)

- ■ Battery monitoring on the selected expander is enabled.
- ☐ Battery monitoring on the selected expander is disabled.

4 Monitor AC (PZX-10 only)

- ■ AC monitoring on the selected expander is enabled.
- ☐ AC monitoring on the selected expander is disabled.

Expander Sounds

This set of options controls how the selected expander generates sounds from its on-board piezo sounder and loudspeaker output.

1 Alarm Tones

- ■ The selected expander generates alarm tones.
- ☐ The selected expander will not generate alarm tones.

2 Fault Tones

- ■ The selected expander generates fault tones.
- ☐ The selected expander will not generate fault tones.

3 Chime Tones

- ■ The selected expander generates chime tones.
- ☐ The selected expander will not generate chime tones.

4 Entry Tones

- ■ The selected expander generates entry tones.
- ☐ The selected expander will not generate entry tones.

5 Exit Tones

- ■ The selected expander generates exit tones.
- ☐ The selected expander will not generate exit tones.

6 Advisory Tones

- ■ The selected expander generates advisory tones.
- ☐ The selected expander will not generate advisory tones.

7 Tamper Tones

- ■ The selected expander generates tamper alarm tones.
- ☐ The selected expander will not generate tamper alarm tones.

Expander Location Text

Text can be manually inputted to provided information on where the selected expander is located.

Expander Outputs 10

The (P)ZX-10 expander has a total of 10 fully programmable outputs which may be set to any of the available output types.

For a full list of output types and attributes please see page 49.

Control Timers 11

The CP-30, CP-50, CP-100 & CP-200 each have five programmable control timers. Each timer has a switch on time (On Time), switch off time (Off Time) and days of operation for both the On and Off times. A Control Timer can be used to automatically arm the system or lock users from accessing the system. The control timer can also be assigned a "Chain" number, which in turn is used to control outputs i.e. a chain programmed to mimic a control timer used for rebooting a server every Friday night at 22:50.

Enter time in 24 hour format, e.g. 1715 = 05.15 PM.

On Time

The 'On time' controls the time in which the control timers start time will be active e.g. the factory will arm automatically at XX:XX every Tuesday. This is entered in a 24hour format. (e.g. 22:10)

Off Time

The 'Off time' controls the time in which the control timers off time will be active e.g. the factory will disarm automatically at XX:XX every Tuesday. This is entered in a 24hour format. (e.g. 22:10)

On Days

The 'On Days' option sets the days the control timer's 'On time' will function. (Monday – Sunday)

Off Days

The 'Off Days' option sets the days the control timer's 'Off time' will function. (Monday – Sunday)

Holiday Dates 12

The CP-30, CP-50, CP-100 & CP-200 each have 5 programmable holiday dates. Each holiday date can be used to override control timers – e.g. during Christmas holidays.

Day

The 'day' option sets the date for the selected month that is required to run the holiday timer. During this holiday date, control timers will not be able to function.

Month

The 'Month' option sets the month that is required to run the holiday timer. During this holiday date, control timers will not be able to function.

Number of Days

The 'Number of days' option sets the required period for the holiday dates. During this holiday date, control timers will not be able to function.

Com Port Setup 13

The CP-50, CP-100 and CP-200 each have three communication ports labelled 'COM 1', 'COM 2' and 'RS-485'. The CP-30 has two communication ports, 'COM1' and 'RS-485. This menu allows you to configure the operating mode of each port.

0 Orisec UDL

This mode configures the selected communication port for UDL USB-Link operation. A TTL-USB adaptor should be connected to the computer and the other end should be connected to the selected control panel communication port.

1 Printer

This mode configures the selected communication port for printer operation. Use this mode when using a terminal program via a TTL-USB adaptor to capture the printer output from the control panel.

2 Contact ID

This mode configures the selected communication port for Contact ID operation. In this mode, Contact ID events are sent to the port in ASCII format

3 Debug USB Link

This mode configures the selected communication port for data debug operation. Use this mode when using a terminal program via a TTL-USB adaptor to capture the debug data from the control panel.

4 WebWayOne SPT

This mode configures the selected communication port for use with WebWayOne communication devices and provides both alarm signalling and UDL operation.

5 CSL Dual Com Pro

This mode configures the selected communication port for use with CSL Dual Com Pro communication devices and provides both alarm signalling and UDL operation.

6 Radio Coms

This mode configures the comport to be used as a debug trace menu for wireless communications. (CP-50, CP-100 and CP-200 only.)

7 Control 4

This mode configures the comport to be used for Control 4 integration.

Coms Modules 14

The control panel supports various communication modules. This menu allows you to configure the settings for each module.

GSM Settings

When a GSM Module is fitted via the ZX-5C the following options must be configured:

0 APN Name

The Access Point Name (APN) is used by the GSM network operator for IP packet data communication – this is required for the GSM to communicate IP information (APP/ ARC/ UDL usage). The table below shows the APN settings used by the major UK GSM network operators:

Operator	APN Name	User	Password
CSL Sim1	Geminit2.m2m	*	*
CSL Sim2	iot.cslm2m.com	*	*
EE/ Orange/ ASDA Mobile/ Post office	everywhere	eesecure	secure
BT Mobile	Btmobile.bt.com	bt	bt
Giffgaff	Giffgaff.com	giffgaff	*
Tesco Mobile	Prepay.tesco-mobile.com	tescowap	password
Virgin Mobile	Goto.virginmobile.uk	user	*
Vodafone Contract	internet	web	web
Vodafone PAYG	pp.vodafone.co.uk	Wap	wap
02 PAYG	Payandgo.02.co.uk	Payandgo	password
O2 contract	Mobile.o2.co.uk	02web	password
Three	Three.co.uk	*	*

* = leave blank

1 APN User

The APN user name used to log into the APN– please refer to table 1 for additional information.

2 APN Password

The APN password used to log into the APN– please refer to table 1 for additional information.

3 SIM Pin

The SIM passcode (if the sim is locked).

4 SIM Credit Code

By entering this code (obtained by the service provider) the system can give an up to date credit balance on (PAYG) Pay As You Go sim cards.

APN details are subject to change. It is advised to check with the network provider to obtain up to date APN settings.

SMS-Service Settings

When a PSTN Module is fitted to the system, it is possible to send SMS messages to mobile telephones via a standard phone line (PSTN). For example, an end user can receive a text message with full description (e.g., 'Zone 02 – Kitchen PIR – Area 1 at 10:45 01/01/16').

The control panel uses the ETSI ES 201 912 protocol 1 to send SMS message via a standard phone line. This protocol is not supported worldwide so please check with your telephone provider. If the SMS message feature is required, the SMS-Service Centre number must be configured. Listed below are the SMS Centre numbers for supported countries and operators:

Country	Operator	SMS Centre Number
UK	BT	17094009
Ireland	Eirecom	17409900
Germany	T-Com	0193010
Belgium	Belgacom	14974800
France	France Telecom	0809101000
Switzerland	Swisscom	0622100000
Netherlands	KPN Telecom	0673644444
South Africa	Telkom	1091969

SMS-Service details are subject to change. It is advised to check with the relevant operator to obtain up to date SMS-Service settings.

Caller Line Identity must be enabled for the SMS Service Centre to accept the message.

IP (Ethernet) settings

When an CM1-IP Module is fitted via the ZX-5C the following options must be configured:

0 Address

A valid IP address must be assigned to the module. It must be entered in dot-decimal notation, e.g. "192.168.0.58".

1 Mask

The subnet mask used on the network must be assigned to the module. It must be entered in dot-decimal notation, e.g. "255.255.255.0".

2 Gateway

The gateway address (normally the ADSL router) used on the network must be assigned to the module. It must be entered in dot-decimal notation, e.g. "192.168.0.1".

3 Port

A valid port number must be assigned to the module. It must be entered as a decimal number, e.g. "10001".

Wi-Fi settings

When a Wi-Fi Module is fitted via the ZX-5C the following options must be configured:

0 SSID

A valid Service Set Identifier (SSID) must be assigned to the module. It must be entered as shown on the provider's documentation. This is the network name e.g. BThomehub217.

Most Providers show the SSID on the router (BT, Virgin etc.)

1 Password

This is the password used to log into the wireless network.

2 IP Address

The IP address used on the network must be assigned to the module. It must be entered in dot-decimal notation, e.g. "192.168.0.1".

3 Port
A valid port number must be assigned to the module. It must be entered as a decimal number, e.g. "10001".

4 Mask
A valid Subnet Mask must be assigned to the module e.g. 255.255.255.0

5 Gateway
A valid Gateway address must be assigned to the module e.g. 192.168.1.1

Speech Dialler 15

This section covers the programming of the speech dialler. The control panel can send voice messages when the system is fitted with a CM1-PSTN Module.

The speech dialler can be used to call landlines or mobile phones to play a pre-recorded voice message when triggered. There are four channels available, each channel can have two telephone numbers assigned.

When the channel is triggered, the control panel dials out and plays the voice message associated with the channel for up to 1 minute. Pressing [*] then [#] on the telephone handset acknowledges the call and stops the dial sequence, pressing any other key also acknowledges the call, but the dial sequence continues to the next number. The speech messages are recorded using the 'Voice Message Uploader' program or a touch-tone telephone.

The touch-tone method is covered in the 'Master User Manual'.

Telephone Number 1

Enter the first contact's phone number for the selected channel, this is the first number that is dialled once the channel is triggered.

Telephone Number 2

Enter the second contact's phone number for the selected channel, this is the second number that is dialled once the channel is triggered.

Dial Sequence

The dial sequence sets the call order for the speech dialler. The call order is entered as a string of digits whereby each digit represents the call order for the saved telephone numbers. As an example, if the dial sequence is entered as 112 the speech dialler will attempt a connection to number 1 twice then number 2.

Trigger

The trigger controls when the speech dialler channel will operate.

Each speech dialler channel is triggered from any of the available outputs.

For example, channel 1 can be programmed as 'Fire Alarm' whilst channel 2 can be programmed as 'Zone 01 mimic'.

For a full list of output types and attributes, please see page 49.

Voice messages 16

This section covers the programming of voice messages and how they are repeated.

Trigger by Chain

Select the required 'Chain' to operate a pre-recorded voice message which will be played from a 16ohm speaker connected to the main control panel. The speech messages are recorded using the 'Voice Message Uploader' program or a touch-tone telephone. The touch-tone method is covered in the 'Master User Manual'.

For information on programming Chains, please see page 75.

Voice message options

The voice message options allow you to control how the message is played.

1 Keep Repeating

☑ The selected voice message repeats continuously until the associated 'Link Control' is no longer active.

☐ The selected voice message plays once.

2 Repeat every 10 Seconds

☑ The selected voice message repeats every 10 seconds until the associated 'Link Control' is no longer active.

☐ The selected voice message plays once.

3 Repeat every 30 Seconds

☑ The selected voice message repeats every 30 seconds until the associated 'Link Control' is no longer active.

☐ The selected voice message plays once.

4 Repeat every 60 Seconds

☑ The selected voice message repeats every minute until the associated 'Link Control' is no longer active.

☐ The selected voice message plays once.

5 Repeat every 5 Minutes

☑ The selected voice message repeats every 5 minutes until the associated 'Link Control' is no longer active.

☐ The selected voice message plays once.

6 Repeat every 15 Minutes

☑ The selected voice message repeats every 15 minutes until the associated 'Link Control' is no longer active.

☐ The selected voice message plays once.

7 Repeat every 30 Minutes

☑ The selected voice message repeats every 30 minutes until the associated 'Link Control' is no longer active.

☐ The selected voice message plays once.

8 Repeat every 60 Minutes

☑ The selected voice message repeats every 60 minutes until the associated 'Link Control' is no longer active.

☐ The selected voice message plays once.

Options 2 - 8 can be added together to create combined timings, e.g., if options 3 and 4 are on the voice message will repeat every 1 minute and 30 seconds.

ARC Setup 17

This menu covers the setup and configuration for signals to personal mobile devices and Alarm Receiving Centres (ARCs). The system supports a total of 4 ARCs.

ARC Telephone Number

Enter the telephone number for the selected ARC, this is obtained from the ARC.

Whilst programming telephone numbers, additional characters can be inserted to perform the following:

Insert a "P" for a 1 second pause.
Insert a "F" to force blind dialling (no dial-tone detection).

If using CSL connected on a dual path module (IP/GSM – GSM/GSM) add the required DP number after the ARC unique identifier e.g.

12345DP1 (Poll every 1 minute – failure after 4 minutes)

12345DP2 (Poll every 10 minute – failure after 31 minutes)

12345DP3 (Poll every 1 hour – failure after 25 hours)

ARC Account Number

Enter the account number for the selected ARC. This is obtained from the ARC and entered as a 4 digit number.

ARC Protocol

This set of options allows the protocol type to be programmed for selected ARC or personal mobile device.

0 Disabled

The selected ARC is disabled.

1 Contact ID

The selected ARC is configured for Contact ID protocol. When triggered, the communication device will communicate with the alarm receiver using Contact ID protocol.

2 SIA II

The selected ARC is configured for SIA level 2 protocol. When triggered, the communication device will communicate with the alarm receiver using SIA level 2 protocol.

3 SIA III

The selected ARC is configured for SIA level 3 protocol. When triggered, the communication device will communicate with the alarm receiver using SIA level 3 protocol.

4 Fast Format

The selected ARC is configured for Fast Format. When triggered, the communication device will communicate with the alarm receiver using Fast Format protocol.

The control panel supports 16 Fast Format channels, see page 62 for additional information.

5 Voice

The selected ARC is configured for Voice protocol. When triggered, the on-board communicator will dial the telephone number and play a fixed voice message relating to alarm event.

6 SMS

The selected ARC is configured for SMS protocol. When triggered, the on-board communicator will dial the SMS Centre and send a SMS text message to the telephone number programmed in the ARC. See SMS Service Settings on page 58.

Protocol Options

This set of options allows the protocol options to be programmed for each ARC.

1 Switch to Next ARC on failed Attempt

- ■ The communication device switches to the next ARC in the sequence, if the current ARC attempt fails.
- ☐ The communication device continues contacting the selected ARC until all its attempts have been used.

2 Use PSTN Pre-Dial

- ■ The PSTN Module (if fitted) dials the 'PSTN Pre-Dial Number' before dialling the ARC telephone number. This is normally required when using an internal telephone system. See PSTN Pre-Dial Number on page 63.
- ☐ The on-board communicator only dials the ARC telephone number.

3 SIA & Areas

- ■ When reporting via SIA III the data string will include the area number.
- ☐ When reporting via SIA III the data string will not include the area number.

4 SIA & Area Text

- ■ When reporting via SIA III the data string will include the area text.
- ☐ When reporting via SIA III the data string will not include the area text.

5 SIA & Zone/User Text

- ■ When reporting via SIA III the data string will include the Zone/User text.
- ☐ When reporting via SIA III the data string will not include the Zone/User text.

Dial Sequence

This set of options allows the call sequence to be programmed for each ARC.

The call sequence is entered as a string of digits; each number indicates the calling method:

1 = PSTN

2 = WebWayOne / CSL DualCom Pro (Via TTL)

3 = CSL DualCom / Emizon / BT Redcare (Via RS485)

4 = N/A

5 = CSL Connected

6 = Serial Contact ID

7 = Oscar (Orisec IP)

The call attempts are controlled by how many digits are entered. Here are some typical examples:

'111' = Attempt to call the selected ARC / personal mobile device three times using the PSTN.

'21' = Attempt to call the selected ARC / personal mobile device twice, first using WebWayOne then PSTN.

CSL / Emizon / BT Redcare Setup

When CSL / Emizon / BT Redcare modules are connected, simply select Dial Sequence = 3. This will enable full UDL as well as alarm reporting via CSL units.

WebWayOne / CSL DualCom Pro Setup

When WebWayOne or CSL DualCom Pro modules are connected simply:

- Select Dial Sequence = 2.
- Set Account Number = xxxx
- Programming Menu > Comport setup > Comport x = WWO unit SPT

This will enable full UDL as well as alarm reporting via WebWayOne and CSL DualCom Pro units.

Reported

These options selects which groups of events are reported for each ARC channel.

1 Priority

☑ The selected ARC channel reports events that are assigned in the priority group, e.g. Fire Alarm

☐ The selected ARC channel does not report priority events.

2 Alarms

☑ The selected ARC channel reports events that are assigned in the alarm group, e.g., Zone 3 alarm.

☐ The selected ARC channel does not report alarm events.

3 Tampers

☑ The selected ARC channel reports events that are assigned in the tamper group, e.g., Expander 1 tamper.

☐ The selected ARC channel does not report tamper events.

4 Faults

☑ The selected ARC channel reports events that are assigned in the fault group, e.g., Battery Fault

☐ The selected ARC channel does not report fault events.

5 Open/Close

☑ The selected ARC channel reports events that are assigned in the open/close group, e.g., Area 1 Armed.

☐ The selected ARC channel does not report open/close events.

6 Test/Misc.

☑ The selected ARC channel reports events that are assigned in the test/misc. group, e.g., Test Call

☐ The selected ARC channel does not report test/misc. events.

7 Restore

☑ The selected ARC channel reports events that are assigned in the restore group, e.g., Zone 1 restored.

☐ The selected ARC channel does not report restore events.

8 Custom

☑ The selected ARC channel reports events that are assigned in the custom group.

☐ The selected ARC channel does not report custom events.

Cancel

This set of options controls the communication sequence for each ARC channel. When the communication device is triggered by an event it will call the ARC using the settings defined in ARC 1. If the communication attempt is successful, this option can be used to either cancel attempts for the remaining available ARC's or move on and call the next available ARC.

1 Stop ARC 1

☑ The selected ARC will cancel further attempts to ARC 1 after a successful communication.

☐ The selected ARC will move on to next ARC after a successful communication.

2 Stop ARC 2

☑ The selected ARC will cancel further attempts to ARC 2 after a successful communication.

☐ The selected ARC will move on to next ARC after a successful communication.

3 Stop ARC 3

☑ The selected ARC will cancel further attempts to ARC 3 after a successful communication.

☐ The selected ARC will move on to next ARC after a successful communication.

4 Stop ARC 4

☑ The selected ARC will cancel further attempts to ARC 4 after a successful communication.

☐ The selected ARC will move on to next ARC after a successful communication.

ARC Area

This option controls which areas report events to the ARC.

1 Area 1

☑ Events that occur in area 1 are reported to the selected ARC.

☐ Events that occur in area 1 are not reported.

2 Area 2

☑ Events that occur in area 2 are reported to the selected ARC.

☐ Events that occur in area 2 are not reported.

3 Area 3

☑ Events that occur in area 3 are reported to the selected ARC.

☐ Events that occur in area 3 are not reported.

4 Area 4

☑ Events that occur in area 4 are reported to the selected ARC.

☐ Events that occur in area 4 are not reported.

5 Area 5

☑ Events that occur in area 5 are reported to the selected ARC.

☐ Events that occur in area 5 are not reported.

IP Address

This option allows an IP address to be programmed for each ARC. The IP Address is obtained from the ARC.

The IP address must be entered in dot-decimal notation, e.g. "192.168.0.58".

IP Port Number

This option allows a port number to be programmed for each ARC. The port number is obtained from the ARC.

The port number must be entered as a decimal number, e.g. '10001'.

Fast Format Channels 18

This section covers the full programming for Fast Format Channels. When the ARC protocol is programmed as Fast Format, the channels that are used for reporting must be enabled or disabled.

Type

Program the selected channels type for either Report, Restore or Open/Close.

1 Report

☑ The selected channel is reported as a 'New' event when channel is made active.

☐ The selected channel does not report new events.

2 Restore

☑ The selected channel is reported as a 'Restore' event when the channel is made inactive.

☐ The selected channel does not report restore events.

3 Open/Close

☑ The selected channel is reported as an 'Open' event when made active and a 'Close' event when made inactive.

☐ The selected channel does not report open and close events.

Trigger

Each Fast Format channel can be triggered from any of the output functions available on the system, for example channel 1 could be programmed as 'Fire Alarm' whilst channel 2 could be programmed as 'Panic Alarm'.

For a full list of output types and attributes please see page 49.

Attributes

This set of attributes relates to the selected fast format channel and controls how the fast format trigger operates.

1 Latch

☑ The selected channel will only be reset once a valid code has been entered and 'Reset Alarms' has been selected or an engineer code has been entered.

☐ The selected channel will restore once its condition has been resolved (i.e. Mains Fail the channel will restore once the mains has been reinstated)

2 Invert

☑ The selected channel will with inverted logic.

☐ The selected channel will with normal logic.

3 User Test

☑ Any channel with the 'User Test' attribute can be activated by the user in 'System Tests'

☐ The selected channel will only trigger once the requirement is met.

4 Pulse 1

☑ The selected channel will activate for the duration of the 'Pulse 1' timer.

☐ The selected channel operates as normal.

5 Pulse 2

☑ The selected channel will activate for the duration of the 'Pulse 2' timer.

☐ The selected channel operates as normal.

6 Delay 1

☑ The selected channel will be delayed for the duration of the 'Delay 1' Timer.

☐ The selected channel operates as normal.

7 Delay 2

☑ The selected channel will be delayed for the duration of the 'Delay 2' Timer.

☐ The selected channel operates as normal.

8 Armed Only

☑ The selected channel will only trigger when the system is armed.

☐ The selected channel operates as normal.

Fast Format Channel Area

This option controls which areas relate to the selected fast format channel.

1 Area 1

☑ Events that occur in area 1 are reported on the selected channel.

☐ Events that occur in area 1 are not reported.

2 Area 2

☑ Events that occur in area 2 are reported on the selected channel.

☐ Events that occur in area 2 are not reported.

3 Area 3

☑ Events that occur in area 3 are reported on the selected channel.

☐ Events that occur in area 3 are not reported.

4 Area 4

☑ Events that occur in area 4 are reported on the selected channel.

☐ Events that occur in area 4 are not reported.

5 Area 5

☑ Events that occur in area 5 are reported on the selected channel.

☐ Events that occur in area 5 are not reported.

ZX-5C Setup 19

This section covers the configuration of the input/output terminals found on the ZX-5C module. The module is required when using plug-on communication modules such as Ethernet, Wi-Fi or GSM.

The ZX-5C has 5 input/output terminals which may be used for a mixture of inputs and outputs, e.g., terminals 1 & 2 could be used for outputs whilst terminals 3-5 could be used for zones.

Input Zone Mapping

The selected terminal can be mapped to any zone on the system. For details on zone programming see page 31.

Output Type

The selected terminal can be configured to any of the output functions available on the system. For details on output programming see page 49.

Output Attributes

This set of output attributes relates to the selected output terminal and controls how the selected output operates. For details of 'Output Attributes', see page 53.

Output Areas

This set of area options relates to the selected output terminal and controls how the selected output operates. For details of 'Output Areas', see page 5353.

Test call & Pre-dial 20

This menu allows you to configure when a 'Test Call' is sent to the ARC and any pre-dial requirements.

Test Call Every

This option controls the period in hours in which a test call is sent to the ARC. Every time a system event is successfully communicated the test call timer is reset, therefore a test call will only be sent once the timer reaches zero, i.e., The test call is only sent when there has been no communication with the ARC for the programmed period.

If this option is set to '0' the test call will be performed via the 'Test Call At' and 'Test On' options below.

Test Call At

This option allows a designated time to be selected for a test call to be sent to the ARC. This setting works together with 'Test On' option below. The time must be entered in a 24hour format, e.g., 22:10.

Test On

The 'Test On' option sets the days the test call will operate on. This works together with the 'Test Call At' option above.

PSTN Pre-Dial

A pre-dial number can be programmed if required for an internal phone system. E.g. if a '9' is required for external access on a landline.

'Use PSTN Pre-Dial' needs to be enabled to utilise this feature, please see page 60 for further information.

UDL Options 21

This menu allows you to configure the UDL (Upload/Download software) options.

UDL Options

The set of options controls how the upload/download computer interacts with the control panel.

1 2 Call Defeat

■ The PSTN module answers Incoming calls when:

a) The remote caller calls in and allows the panel to detect one or more rings.

b) The remote caller ends the call.

c) The control panel answers the call immediately if the remote caller calls again within 60 seconds.

□ Incoming calls are answered after the "Ring Count" threshold is reached

2 Disable UDL when Armed

■ Remote UDL access is disabled when the system is armed.

□ Remote UDL access is always enabled.

3 Disable Online Keypad

■ Remote UDL online keypad operation is disabled.

□ Remote UDL online keypad operation is enabled.

4 No ZX-5C Web Access

■ Orisec web app for remote control is disabled.

□ Orisec web app for remote control is enabled.

5 No Local Wi-Fi

■ Orisec Wi-Fi module's SSID broadcasting is disabled when connected to a network.

□ Orisec Wi-Fi module SSID broadcasting is enabled.

6 Update Clock from Cloud

■ The time and date for the control panel is updated via the Orisec Cloud.

□ The time and date for the control panel is programmed in "Set time & date".

7 SMS User Code Required

■ A user code is required on each SMS message sent to the panel.

□ A User Code is not required on each SMS message, but the sending device must match one of the programmed phone numbers.

8 Enable Remote Maintenance

■ The control panel is enabled for remote servicing (https://oriseccloudservices.com/)

□ The control panel is not enabled for remote servicing

UDL Password

The UDL password provides communication security with the remote UDL computer. The UDL password in the control panel must match the UDL password configured in the UDL software package to establish a communication link. If left blank this will follow the Engineer's code.

The UDL password length can be between 1 -7 digits long.

Rings Before Answer

This counter controls how long the PSTN Module waits before answering an incoming call.

'2 call answer phone defeat' will need to be switched off for this timer to operate.

Answer Machine Rings

When the system is fitted with a PSTN Module, it can be used as a telephone answer machine. This timer controls how many rings are required before the answer machine answers the call. After answering the selected 'Answer Machine Message' is played to the caller.

Answer Machine Message

This option selects which voice message will be used for the answer machine greeting. See page 59 for further information on voice messages.

Camera IP Address

The system supports five IP (Internet Protocol) cameras. The IP addresses and port for each camera is entered via this menu. This information is then utilised via the smart phone app.

Camera 1
The IP address for camera 1.

Camera 2
The IP address for camera 2.

Camera 3
The IP address for camera 3.

Camera 4
The IP address for camera 4.

Camera 5
The IP address for camera 5.

X10 Outputs 22

This menu is used to configure X10 home automation devices. The X10 communication port is found on the ZX-5C module and is used to interface to the XM10U controller. The system supports five X10 devices.

X10 Text

Each X10 device can be assigned a user friendly 20-character label that is displayed when interacting with the device, e.g., 'Garden Lights'.

X10 House

Each X10 device has an addressable 'house' selector that ranges from A-P. Ensure this option matches the 'house' letter set on the X10 device.

X10 Unit

Each X10 device has an addressable 'unit' selector that ranges from 1-16. Ensure this option matches the 'unit' number set on the X10 device.

X10 Brightness

Dimmable X10 devices (such as a light switch) can be assigned a 'Brightness' level between 1-15. Level 1 is the dimmest level and level 15 is the brightest.

Trigger by Chain

The X10 device is controlled using one of the 'Chains'. See page 75 for details.

Chain Setup 23

This menu is used to configure system 'Chains'.

Chain Text

Each Chain can be assigned a 24 character label which is then displayed in 'Create / Edit Chains'.

Chain Timer

Each Chain can be assigned a custom timer. Assigning a timer to the Chain will force the it to turn off after the defined time frame.

To change the time frame from Seconds to Minutes simply press the 'OMIT' key.

Remote Output Setup 24

This menu is used to configure system remote control outputs.

Remote Output Text

Each Remote Output can be assigned a 20-character label which is then displayed in to the end user via the keypads and Orisec Apps.

Remote Output Timer

Each Remote Output can be assigned a custom timer. Assigning a timer to the Remote Output will force the it to turn off after the defined time frame.

To change the time frame from Seconds to Minutes simply press the 'OMIT' key.

4. Tests and Diagnostics

The following options allow for full system tests for zones, keypads, expanders, external sounders, communications, Wireless devices and firmware upgrades.

For each menu:

1. Use the ▲ and ▼ keys to change between the options and then the ◄ and ► keys to toggle the selected option on and off.
2. Press the [Back←] key to exit the menu.

Test Bell & Strobe 00

This menu allows you to test the external bell, strobe, internal speaker, user controlled outputs and the backlight on external sounders.

1 Bell

■ The external bell will trigger.

☐ The external bell will not trigger.

2 Strobe

■ The external strobe will trigger.

☐ The external strobe will not trigger.

3 Speaker

■ Any speakers connected to the control panel or expansion devices will trigger.

☐ The speaker connected to the control system and expansion devices will not trigger.

4 User Outputs

■ Any output assigned the attribute 'User Output' will be triggered.

☐ User outputs will not be triggered.

5 Bell Back Light

■ The D-Lux backlight on any network bells will be switched on.

☐ The D-Lux backlight on any network bells will be switched off.

6 Bell Power Off (CP-50, CP-100 only)

■ The power to the 12V terminal on the bell connections is removed.

☐ The power to the 12V terminal on the bell connections is on.

The bottom line of the display shows the system voltage and system current.

Walk Test Zones 01

This menu allows the programmed zones to be functionally tested.

Activate the zones eg by walking in front of movement detectors, or opening doors or windows that have sensors fitted.

Walk Test Zones Screen Information:

Line 1: How many zones have been 'walk tested' since entering the menu and how many zones remain to be walk tested (this is dependent on how many zones are programmed).

Line 2: Displays the zone that has been activated and its current state.

Line 3: Displays the programmed zone text for the active zone.

Line 4: The system can be set to create a chime tone when a detector is activated. The different chime options are selected by pressing [♪] or ♪. The options available are as follows:

- Always chime
- New devices chime
- Silent
- Chime only zone ##

View Inactive Zones 02

This menu allows zones that have been inactive for a period to be viewed.

View Inactive Zones Screen Information:

Line 1: Displays the total count of inactive zones for the selected time period.

Line 2: Displays zones that been inactive for the selected time period.

Line 3: Displays programmed zone text for the current inactive zone.

Line 4: The selected inactive period, use the ◄ and ► to change. The options available are as follows:

- Over 15 minutes
- Over 30 minutes
- Over 1 Hour
- Over 12 hours
- Over 1 day
- Over 1 week
- Over 1 month

View Zone Status 03

This menu allows each zone to be independently monitored and viewed.

View Zone Status Screen Information:

Line 1: Zone number and any programmed zone text.

Line 2: The status of the zone, including its resistance (if applicable) and zone count (how many times the zone has activated).

Line 3: Each set of numbers represents a zone count for each day of the week. The first set of numbers represents Monday and the last set Sunday. Each time a zone activates on a Monday the first set of numbers will increment, on a Tuesday the second set etc.

Line 4: The left side shows the last time the zone was activated. The right side shows the status screen mode, use the ◄ and ► keys to change the mode, the following modes are available:

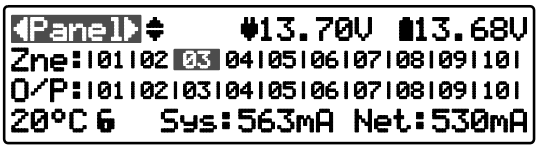
- Status (View zone status)
- Reset count (press [Enter✓] or ✓ to reset zone count)

- Reset Day (press Enter✓ or ✓ to reset zone day counts)
- Reset All (press Enter✓ or ✓ to reset all counts)

View System Devices 04

This menu allows viewing of all system devices such as the control panel, remote keypads, zone expanders and external sounders.

Panel Status Screen Information:



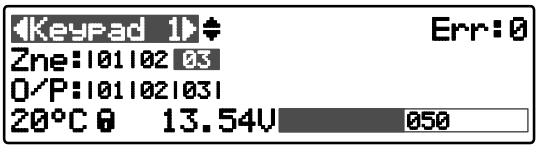
Line 1: Shows the highlighted device, and the associated information. Panel voltage and battery charging voltage.

Line 2: The status of control panel zones 01 to 10. Active zones are highlighted or inverted.

Line 3: The status of all control panel outputs. To test the output, use the scroll keys to highlight the required output then press Omit to toggle the output on or off.

Line 4: Shows the control panel's PCB temperature, lid tamper micro switch, the system current and network current.

Remote Keypad Primary Status Screen:



Line 1: Shows the selected device (use the ◀ and ▶ keys to change device), then the poll error count.

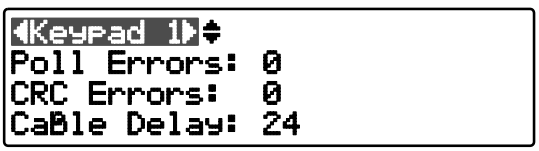
Line 2: Shows the status of the keypad zones. Active zones are highlighted / inverted.

Line 3: The status of the selected keypad outputs. To test the output, use the scroll keys to highlight the required output then press Omit to toggle the output on or off.

Line 4: Shows the selected keypad's internal PCB temperature, tamper switch status, the keypad voltage and the light sensor level.

Use the ◆ key to select secondary status screens to view advanced diagnostics for the keypad and the Back← key to return to the primary status screen:

Remote Keypad Secondary Status Screens:

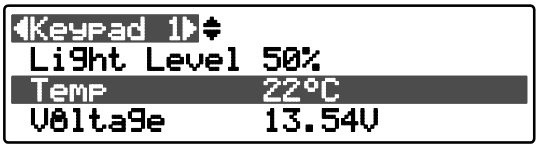


Line 1: Shows the selected device (use the ◀ and ▶ keys to change device).

Line 2: The number of poll errors for the selected keypad. A poll error is when the device has not responded from a poll message.

Line 3: The number of Cyclic Redundancy Check (CRC) errors from the selected keypad. The data packet was received by the device but contained errors.

Line 4: The cable delay for the selected keypad. The cable delay is a measurement of delay between the sending device and receiving device. The delay is caused by build-up of capacitance in the network cabling.



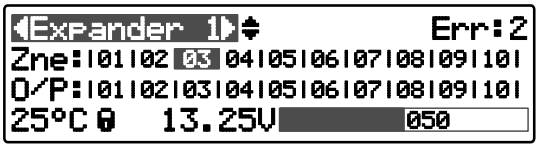
Line 1: Shows the selected device (use the ◀ and ▶ keys to change device).

Line 2: The selected device ambient light level.

Line 3: The selected device internal temperature.

Line 4: The selected device input voltage reading.

Remote Expander Primary Status Screen:



Line 1: Shows the selected device (use the ◀ and ▶ keys to change device), then the poll error count.

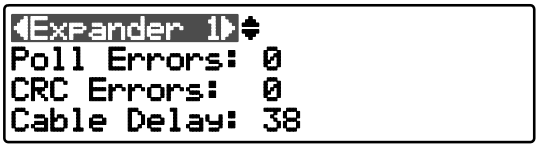
Line 2: Show the status of expander's zones. Active zones are highlighted or inverted.

Line 3: The status of the selected expander outputs. To test the output, use the scroll keys to highlight the required output then press Omit to toggle the output on or off.

Line 4: Shows the expander's PCB temperature, then the tamper switch status, the expander input voltage and light sensor level.

Use the ◆ key to select secondary status screens to view advanced diagnostics doe the expander and the Back← key to return to the primary status screen:

Remote Expander Secondary Status Screens:

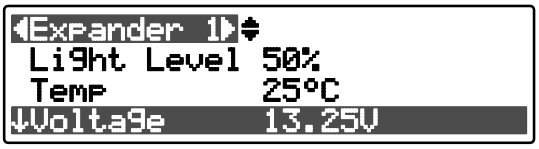


Line 1: Shows the selected device (use the ◀ and ▶ keys to change device).

Line 2: The number of poll errors for the selected device. A poll error is when the device has not responded from a poll message.

Line 3: The number of Cyclic Redundancy Check (CRC) errors from the selected device. The data packet was received by the device but contained errors.

Line 4: The cable delay for the selected device. The cable delay is a measurement of delay between the sending device and receiving device. The delay is caused by build-up of capacitance in the network cabling.



Line 1: Shows the selected device (use the ◀ and ▶ keys to change device).

Line 2: The selected device ambient light level.

Line 3: The selected device internal temperature.

Line 4: The selected device input voltage reading.

Line 5: The selected device current consumption.

Line 6: The selected device auxiliary voltage reading.

Line 7: The selected device auxiliary current consumption.

Line 8: The selected device battery voltage reading (Powered Expander only).

External Sounder (Bell) Primary Status Screen:

Line 1: Shows the selected device (use the ◀ and ▶ keys to change device), then the poll error count.

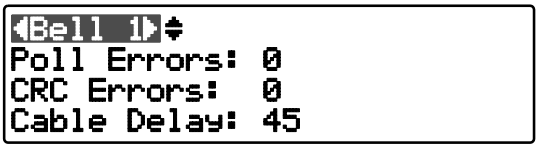
Line 2: Reserved for future use.

Line 3: The status of the selected external sounder outputs; B=Bell; S=Strobe; L=backlight panel. To test the output, use the scroll keys to highlight the required output then press [Omit] to toggle the output on or off.

Line 4: Shows the selected external sounder's internal PCB temperature, the tamper switch status, the input voltage and light sensor level.

3. Use the ◆ key to select secondary status screens to view advanced diagnostics for the sounder and the [Back←] key to return to the primary status screen:

External Sounder (Bell) Secondary Status Screens:

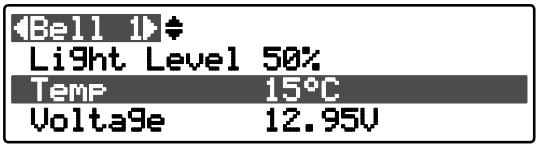


Line 1: Shows the selected device (use the ◀ and ▶ keys to change device).

Line 2: The number of poll errors for the selected device. A poll error is when the device has not responded from a poll message.

Line 3: The number of Cyclic Redundancy Check (CRC) errors from the selected device. The data packet was received by the device but contained errors.

Line 4: The cable delay for the selected device. The cable delay is a measurement of delay between the sending device and receiving device. The delay is caused by build-up of capacitance in the network cabling.



Line 1: Shows the selected device (use the ◀ and ▶ keys to change device).

Line 2: The selected device ambient light level.

Line 3: The selected device internal temperature.

Line 4: The selected device input voltage reading.

Wireless Status 05

This menu displays programmed wireless devices and will indicate current signal level, temperature, time since poll, battery level and current active state.

Line 1: Shows the zone number the wireless device is assigned and any associated zone text.

Line 2: The unique ID for the wireless device.

Line 3: Displays Battery Voltage, Temperature, Signal strength & Time since last Poll

Line 4: Device name

Lines 5 – 10: Dependent on the wireless device, information regarding the devices operations will be displayed.

In 'Setup Wireless Devices' the devices' operations can be enabled/ disabled by pressing the 'OMIT' key.

Lines 11 -13: Dependent on the wireless device, information regarding the devices tamper status will be displayed.

Pressing the 'OMIT' button in this menu, will toggled the display between Zones and Key fobs

Line 1: Shows the user number the wireless Key fob is assigned and any associated user text.

Line 2: The unique ID for the wireless Key fob.

Line 3: Displays last known Battery Voltage, Temperature & Signal strength.

Line 4: Device name

View Module Status 06

This menu allows you to view the status of the communication modules installed on the system.

GSM Module Screen Information

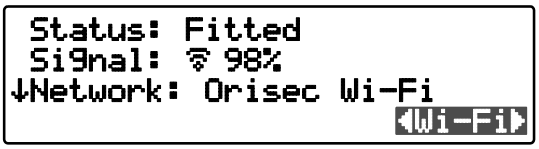
Line 1: Shows whether a module is 'Fitted' or 'Not fitted'.

Line 2: The most update signal reading from the sim card.

Line 3: The remaining credit on the sim card if using PAYG.

Line 4: The selected module, use the ◀ and ▶ keys to change.

Wi-Fi Module Screen Information



Line 1: Shows whether a module is 'Fitted' or 'Not fitted'

Line 2: A signal reading from the Wi-Fi module.

Line 3: Displays the SSID of the network the unit is connected to.

Line 4: Displays the local IP Address of the Wi-Fi module.

Line 5: Displays the local IP Gateway for the Wi-Fi module.

Line 6: Displays the local Subnet Mask for the Wi-Fi module.

Line 7: Displays the MAC address of the Wi-Fi module.

Ethernet Module Screen Information

Line 1: Shows whether a module is 'Fitted' or 'Not fitted'

Line 2: The IP address assigned to the module.

Line 3: Displays the Subnet Mask for the Ethernet Module.

Line 4: Displays the IP Gateway for the Ethernet Module

Line 5: Displays the Port Number for the Ethernet Module.

Line 6: Displays the MAC address of the Ethernet module.

PSTN Module Screen Information

Line 1: Shows whether a module is 'Fitted' or 'Not fitted'

Line 2: The phoneline status 'Good', 'Engaged' or 'Bad'.

Line 3: The number of saved answer machine messages.

Wi-Fi Status and Checks 07

This menu allows you to view all available Wi-Fi access points. Once selected, you may connect or disconnector from the selected Wi-Fi access point.

1. Ensure that the 'Wi-Fi status & checks' option is selected from the 'Test & Diagnostics menu:

2. Use the ▲ and ▼ keys to select the required Wi-Fi access point. Then press [Enter✓] or ✓ to connect/disconnect.

'The password for the SSID will need to be programmed in 'Coms Modules" see page 58.

3. Press the [Back←] key to exit the menu.

Do a Test Call 08

Selecting this option will cause connected communication device(s) to send a test call to the alarm receiving centre using the programmed in information (contact number, account number, protocol).

Within this menu select the test event that is to be signalled, then press [Enter✓] to send the selected event.

The list of events available to signal are as follows:

- Test Call
- Armed
- Disarmed
- Alarm
- Confirmed Alarm
- PA
- Fire
- Arm Failure
- Zone Omit
- Arm Fail

Review Voice Messages 09

The system has 10 programmable voice messages; each message can be up to 16 seconds long. The messages can be recorded using the Orisec software and uploaded into the control panel. Alternatively, voice messages can be recorded from a telephone handset.

1. Ensure that the 'Review voice messages' option is selected from the 'Test & Diagnostics menu:

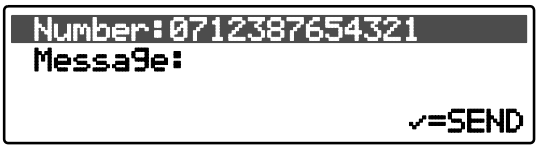
2. Use the ◀ and ▶ keys to select the voice message (1-15). Press [Enter✓] or ✓ to play the message or press [Clear×] or ✖ to clear and record a new message.
3. Press ▼ to select System Message Part:

4. Use the ◄ and ► keys to select the system message (1-75). Press [Enter✓] or ✓ to play the message.

Send SMS Message 10

This menu allows the user to send a SMS message to a telephone number of their choosing. The system must be fitted with either a GSM or PSTN module to use this feature.

1. Ensure that the 'Send SMS message' option is selected from the 'Test & Diagnostics' menu:



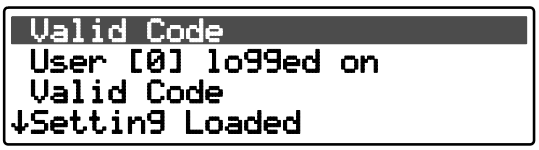
2. Use the number keys to enter a valid mobile telephone number.
3. Press ▼ to select Message:

4. Use the number keys to enter the message then press [Enter✓] or ✓ to send the SMS message.

View Debug Trace 11

This menu can be used to further diagnose issues by viewing processes that have happened on the control panel. These events are not stored in the control panels event log and should only be used for diagnostic purposes.

1. Ensure that the 'View debug trace' option is selected from the 'Test & Diagnostics' menu:



2. Use the ▲ and ▼ keys to scroll though the trace.
3. Press the [Back←] key to exit the menu.

Update Device Firmware 12

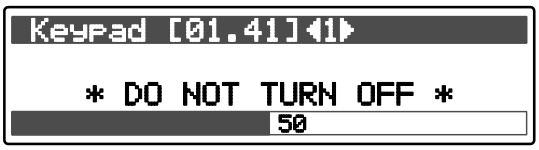
This option will allow the engineer to update the devices connected to the control panel network.

1. Ensure that the 'Update device firmware' option is selected from the 'Test & Diagnostics' menu:

Line 1: Shows the selected device and its current firmware version. Use the ◄ and ► keys to select another device.

Line 2: Shows the firmware version that the selected device can be updated to (if applicable).

2. Press [Enter✓] or ✓ to update, then press [Enter✓] or ✓ again to confirm. The progress of the update is displayed:



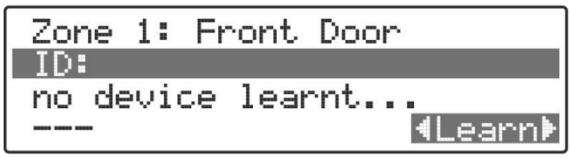
While this screen is on the user will not be able to access any other devices until the firmware update is complete. Other keypads will show percentage of completion.

3. When a ZX-5C module is added to the control panel this can be used to Save/ Restore all control panel programming to the local panel and other control panels. The ZX-5C is also used to connect any Orisec Ethernet, Wi-fi & GSM modules. If any of the mentioned devices are connected to the Orisec Cloud the control panels software version may be upgraded from the Orisec Cloud.

4. Press the [Back←] key to exit the menu.

5. Setup Wireless Zones

The section describes how to program wireless devices to the Orisec control panel.



To learn a wireless device, highlight the required zone and follow the instructions in the relevant wireless device's installation manual to complete the learning sequence.

Once the device is learnt to the control panel see page 68 for how to view the wireless status.

To delete a wireless device, whilst selected on the zone number at the top of the menu press [Area] (or on RK-400/RK-450 press and hold [X]) then press [Enter] (or [✓]) to confirm.

6. System Event Logs

The section covers the viewing and printing of various event data that is recorded by the system.

View event log 00

All system events such as arming, disarming, alarm and faults are recorded in the system log along with the date and time.

1. Ensure that the 'View event log' option is selected from the 'System Event Logs' menu:

2. Scroll back and forward through the log using the ▲ and ▼ keys.

View Log Screen Information
Line 1: Event type.

Line 2: Zone or user text.

Line 3: Event Area(s) then date and time.

Line 4: Event Type Filter, use the ◄ and ► keys to change the event filter type:

- All Events
- Alarms
- Tampers
- Faults
- Open & Close
- Tests
- Restore
- Custom

Then event number is displayed far right.

View mandatory log 01

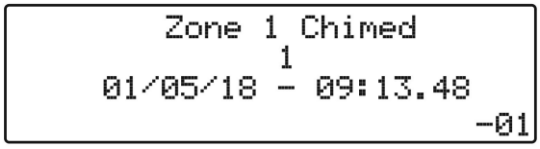
All mandatory events as defined in EN50131-1 are recorded in the mandatory event log.

Information displayed is as per the system event log above.

View chime log 02

Displays up to the last 50 zones that have chimed.

1. Ensure that the 'View chime log' option is selected from the 'System Event Logs' menu:



2. Scroll back and forward through the chime log using the ▲ and ▼ keys.

View Log Screen Information
Line 1: The zone number that has chimed.

Line 2: The zone number.

Line 3: Time and date of the chime event.

Line 4: Then event number is displayed far right.

Print log 02

This option allows you to print the log. To use this option a serial printer will need to be connected to the panel via COM port 1 or 2.

Log Event	Description	No	Group	SIA	Contact ID
Intruder Alarm XX	Intruder alarm activated by zone XX.	000	Alarms	BA	N130
Intruder Restore XX	Intruder zone XX restore.	001	Restore	BR	R130
Perimeter Alarm XX	Perimeter alarm activated by zone XX.	002	Alarms	BA	N131
Perimeter Restore XX	Perimeter zone XX restore.	003	Restore	BR	R131
24Hr Alarm XX	24-hour alarm activated by zone XX.	004	Alarms	BA	N133
24Hr Restore XX	24-hour zone XX restore.	005	Restore	BR	R133
Entry Alarm XX	Entry alarm activated by zone XX.	006	Alarms	BA	N134
Entry Restore XX	Entry zone XX restore.	007	Restore	BR	R134
Warning Alarm XX	Warning alarm activated by zone XX.	008	Alarms	--	----
Warning Restore XX	Warning zone XX restore.	009	Restore	--	----
Medical Alarm XX	Medical alarm activated by zone XX.	010	Priority	MA	N100
Medical Restore XX	Medical zone XX restore.	011	Restore	MR	R100
Fire Alarm XX	Fire alarm activated by zone XX.	012	Priority	FA	N110
Fire Restore XX	Fire zone XX restore.	013	Restore	FR	R110
PA Alarm XX	Panic alarm activated by zone XX.	014	Priority	PA	N123
PA Restore XX	Panic alarm zone XX restore.	015	Restore	PR	R123
PA Silent Alarm XX	Silent panic alarm activated by zone XX.	016	Priority	HA	N122
PA Silent Restore XX	Silent panic alarm XX restore.	017	Restore	HR	R122
PA Confirmed XX	Confirmed PA alarm activated by zone XX.	018	Priority	HV	N129
PA Confirmed Restore XX	Confirmed PA zone XX restored.	019	Restore	HR	R129
PA Confirmed Silent XX	Confirmed Silent PA alarm activated by zone XX.	020	Priority	HV	N129
PA Con. Silent Restore XX	Confirmed Silent PA zone XX restored.	021	Restore	HH	R129
Aux Alarm XX	Auxiliary alarm activated by zone XX.	022	Alarms	--	----
Aux Restore XX	Auxiliary zone XX restore.	023	Restore	--	----
Monitor Alarm XX	Monitor alarm activated by zone XX.	024	Alarms	BA	N130
Monitor Restore XX	Monitor zone XX restore.	025	Restore	BR	R130
Zone XX Omitted	Zone XX Omitted.	026	Alarms	BB	N570
Zone XX Reinstated	Zone XX Reinstated.	027	Restore	BU	R570
Tamper XX Alarm	Tamper alarm activated by zone XX.	028	Tampers	TA	N137
Tamper XX Restore	Tamper zone XX restore.	029	Restore	TR	R137
Zone XX Fault Alarm	Fault alarm activated by zone XX.	030	Faults	BT	N380
Zone XX Fault Restore	Fault on zone XX has restored.	031	Restore	BJ	R380
Zone XX Mask Alarm	Mask alarm activated by zone XX.	032	Faults	BT	N380
Zone XX Mask Restore	Mask alarm on zone XX has restored.	033	Restore	BJ	R380
Low Battery Alarm XX	Low battery alarm from wireless device on zone XX.	034	Faults	YT	N302
Low Battery Restore XX	Low battery alarm on zone XX has restored.	035	Restore	YR	R302
Omit Key Active XX	Key omits activated by zone XX.	036	Alarms	BB	N570
Omit Key Restore XX	Key omits by zone XX has restored.	037	Restore	BU	R570
Keyswitch Active XX	Keyswitch connected to zone XX is active.	038	Open & Close	CL	N409
Keyswitch Restore XX	Keyswitch connected to zone XX has restored.	039	Open & Close	OP	R409
Security Key Active XX	Security keyswitch connected to zone XX is active.	040	Alarms	--	----
Security Key Restore XX	Security keyswitch connected to zone XX has restored.	041	Restore	--	----
Alarm Active	Intruder Alarm is active.	042	Alarms	--	----
Bells Active	Bell output is active.	043	Alarms	--	----
Re-arm Lockout Zone	Re-arm lockout has occurred and no more alarms can be generated for the armed period.	044	Alarms	BB	N570
Confirmed Alarm	Confirmed alarm generated (two different zones activated).	045	Alarms	BV	N139
Confirmed PA Alarm	Confirmed PA alarm generated.	046	Priority	HV	N129
Remote Access XX	Remote access via PC number XX.	047	Tests	RS	N412
User XX	User access by user XX.	048	Open & Close	--	----
Access XX	Access user code type by user XX.	049	Open & Close	--	----
Duress XX	Duress alarm by user XX.	050	Priority	HA	N121

Log Event	Description	No	Group	SIA	Contact ID
User Tag XX	User XX proximity tag access.	051	Open & Close	--	----
User Remote XX	User XX wireless remote has accessed the system.	052	Open & Close	--	----
User XX Lockout	User XX has been locked out from using the system.	053	Open & Close	--	----
User Tag XX Lockout	User XX proximity tag has been locked out from using the system.	054	Open & Close	--	----
Code Tamper X	Code tamper (invalid code) generated at keypad X.	055	Tampers	JA	N145
Userr XX DELETED	User XX deleted from the system.	056	Open & Close	--	----
Exit Started XX	Exit mode started by user XX.	057	Open & Close	--	----
Exit Started Timer X	Exit mode started by control timer X.	058	Open & Close	--	----
Exit Started Zone XX	Exit mode started by zone XX.	059	Open & Close	--	----
Exit Stopped	Exit mode stopped.	060	Open & Close	--	----
Exit Failed by zone XX	Exit mode failed by zone XX.	061	Faults	--	----
Entry Started XX	Entry mode stared by zone XX.	062	Open & Close	--	----
Entry Timeout	Entry timeout alarm.	063	Custom	--	----
System Armed	System armed.	064	Open & Close	CL	N400
Keyswitch Arm	Keyswitch Armed.	065	Open & Close	CL	N409
Quick Armed	Quick Armed.	066	Open & Close	CL	N408
Part Armed 1	Part armed 1.	067	Open & Close	CL	N400
Part Armed 2	Part armed 2.	068	Open & Close	CL	N401
Part Armed 3	Part armed 3.	069	Open & Close	CL	N401
System Disarmed	System disarmed.	070	Open & Close	OP	R401
Arming Failed	Arming failed.	071	Open & Close	EE	N457
Armed With ATS Fault	The system was armed with an Alarm Transmission System (ATS) fault.	072	Open & Close	--	----
Auto Armed	The system was automatically armed.	073	Open & Close	CL	N403
Auto Disarmed	The system was automatically disarmed.	074	Open & Close	OP	R403
Remote Armed	The system was automatically armed remotely.	075	Open & Close	CL	N407
Remote Disarmed	The system was automatically disarmed remotely.	076	Open & Close	OP	R407
System Power Up	The system was powered up.	077	Tests	--	----
AC Failed	The mains AC supply has been switched off.	078	Faults	AT	N301
AC Restore	The mains ac supply has been restored.	079	Restore	AR	R301
Battery Fault #X	Battery fault #? (1: Presence Fail; 2: Load Test Fail).	080	Faults	YT	N302
Battery Restore	Battery fault restored.	081	Restore	YR	R302
Low Battery Alarm	The system standby battery voltage is low (The system is running on battery only).	082	Faults	YT	N302
Time/Date Changed	The system time and date has been changed.	083	Tests	JT	N625
Engineer on site	The engineer access code has been entered.	084	Tests	LB	N627
Engineer off site	The engineer has logged off.	085	Tests	LS	R628
Bell Fuse Alarm	The bell fuse has gone open circuit (electronic fuse).	086	Faults	YA	N300
Bell Fuse Restore	The bell fuse has restored.	087	Restore	YH	R300
Aux Fuse Alarm	The auxiliary 12V fuse has gone open circuit (electronic fuse).	088	Faults	YP	N300
Aux Fuse Restore	The auxiliary 12V fuse has restored.	089	Restore	YQ	R300
Battery Fuse Alarm	The battery fuse has gone open circuit (electronic fuse).	090	Faults	UT	N300
Battery Fuse Restore	The battery fuse has restored.	091	Restore	UJ	R300
Network Fuse Alarm	The network fuse has gone open circuit (electronic fuse).	092	Faults	UT	N300
Network Fuse Restore	The network fuse has restored.	093	Restore	UJ	R300
Box Tamper Alarm	The control panel box tamper has been activated.	094	Tampers	TA	N145
Box Tamper Restore	The control panel box tamper has restored.	095	Restore	TR	R145
Keypad X Tamper	Keypad X box tamper has been activated.	096	Tampers	TA	N145
Keypad X Tamp Rest	Keypad X box tamper has restored.	097	Restore	TR	R145
Exp X Tamper Alarm	Expander X tamper alarmed.	098	Tampers	TA	N145
Exp X Tamper Restore	Expander X tamper is restored.	099	Restore	TR	R145
Bell X Tamper Alarm	Network Bell X tamper alarmed.	100	Tampers	TA	N145
Bell X Tamper Restore	Network Bell X tamper is restored.	101	Restore	TR	R145
Keypad XX Lost	Keypad XX on network lost.	102	Faults	ET	N333

Log Event	Description	No	Group	SIA	Contact ID
Keypad XX Found	Keypad XX on network found.	103	Restore	ER	R333
Expander XX Lost	Expander XX on network lost.	104	Faults	ET	N333
Expander XX Found	Expander XX on network found.	105	Restore	ER	R333
Bell X Lost	Network Bell X on network lost.	106	Faults	ET	N333
Bell X Found	Network Bell X on network found.	107	Restore	ER	R333
Walktest Started	User walk test mode started.	108	Tests	TS	N607
Walktest Ended	User walk test mode ended.	109	Restore	TE	R607
Bell Test Started	User bell test started.	110	Tests	--	----
Bell Test Ended	User bell test ended.	111	Restore	--	----
Auto Test Call	An automatic test call was sent to the Alarm Receiving Centre (ARC).	112	Tests	RP	N602
Manual Test Call	A manual (user) test call was sent to the Alarm Receiving Centre (ARC).	113	Tests	RX	N601
Timer X On	Control Timer X is on.	114	Tests	--	----
Timer X Off	Control Timer X is off.	115	Restore	--	----
Zone Test XXX Days	Zone soak test has started and will run for XXX days.	116	Tests	--	----
Zone XX Test Fail	Zone XX has failed whilst on test.	117	Tests	--	----
First Knock XX	First activation from zone XX. The zone has the "Double Knock" attribute.	118	Alarms	--	----
Beam Pair 1st XX	First activation from zone XX. The zone has the "Beam Pair" attribute.	119	Alarms	--	----
Alarm Aborted	The user has disarmed the system within the abort delay period.	120	Open & Close	BC	N406
Bell Tamper Alarm	The bell tamper alarm has been activated.	121	Tampers	TA	N145
Bell Tamper Restore	The bell tamper has restored.	122	Restore	TR	R145
Bell X Fault Alarm	Network Bell X fault.	123	Faults	UT	N300
Bell X Fault Restore	Network Bell X restored	124	Restore	UJ	R300
ATS Fault	The Alarm Transmission System (ATS) has detected a fault with the transmission path (telephone line/GSM/IP).	125	Faults	LT	N351
ATS Restored	The ATS Fault has restored.	126	Restore	LR	R351
Keypad PA X	A panic alarm was generated at keypad X by pressing keys 7 and 9.	127	Priority	PA	N120
Keypad Fire X	A fire alarm was generated at keypad X by pressing keys 1 and 3.	128	Priority	FA	N110
Keypad Medical X	A medical alarm was generated at keypad X by pressing keys 4 and 6.	129	Priority	MA	N100
Output XX Fault	The control panel has detected a fault on panel output XX.	130	Faults	UT	N300
Output XX Restore	The fault on panel output XX has restored.	131	Restore	UJ	R300
Cleaner On-Site XX	A cleaner access code has been entered.	132	Open & Close	--	----
Cleaner Off-Site XX	A cleaner has logged off.	133	Open & Close	--	----
Com X Module Alarm	The communication module has been disconnected/lost from com port X	134	Faults	UT	N300
Com X Module Restore	The communication module has been connected/found from com port X	135	Restore	UJ	R300
Zone XX Count Alarm	Zone XX has reached the "Count Logging" threshold.	136	Alarms	--	----
Tag PA XX Alarm	PA alarm triggered by XX tag.	137	Priority	PA	N120
Radio Output XX Flt	The control panel has detected a fault on radio output XX.	138	Faults	UT	N300
Alarm Reset	Alarm has been reset.	139	Restore	--	N305
RNRR Reset	Random Number Remote Reset (A reset has been performed remotely)	140	Restore	--	N305
Zone XX on Test	Zone XX has been put on soak test.	141	Tests	--	----
Exp X Bat Fault	Powered Expander X battery fault.	142	Faults	YT	N302
Exp X Bat Restore	Powered Expander X battery fault restored.	143	Restore	YR	R302
Exp X AC Fault	Powered Expander X AC fault.	144	Faults	AT	N301
Exp X AC Restore	Powered Expander X AC fault restored.	145	Restore	AR	R301

7. Create / Edit Chains

This menu allows for the creation of 'Chains'. A chain is a custom output consisting of AND/ OR logic which is assigned to standard output types. Each Chain may have a total of 20 inputs.

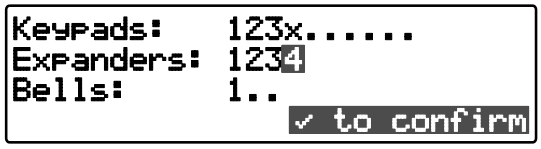
Each output can be assigned a different logic of either OR or AND, to toggle this simply press the OMIT key on the required output.

To Delete an output assigned to the Chain, highlight the required output and press Clear✕ or ✖.

8. Confirm Devices

This menu option allows you to confirm the network devices present on the system. If a network device is added or removed the keypads will prompt you that you need to 'Confirm Devices'.

1. Ensure that the 'Confirm Devices' option is selected from the main menu:



2. Press Enter✓ or ✓ to confirm the devices connected.

Confirm Devices Screen Information
Line 1: Keypads connected to the network.

Line 2: Expanders connected to the network.

Line 3: Bell connected to the network.

Line 4: Netcom (CP-200 Only), In order to access network two, press the Omit Key

Numbers 1 to 10 indicate the confirmed device address. Any new devices will be shown highlighted. Dots indicate unused address slot. A lower case x indicates that a previously confirmed device is no longer present.

3. Press the Back← or ← key to exit the menu.

9. Edit SIA & ID Codes

This menu option allows you to edit the default 'SIA' and 'Contact ID' event reporting codes. Every event that is logged by the system can be reported to the Alarm Receiving Centre (ARC) when using either 'SIA' or 'Contact ID' protocols.

1. Ensure that the 'Edit SIA and ID coded' option is selected from the main menu:

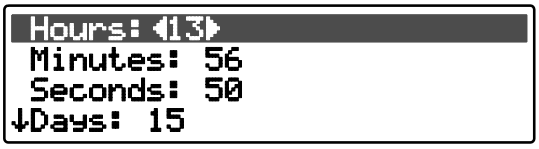
2. Use the ▲ and ▼ keys to scroll through the event type or key in the event number (The event number is displayed on the right, see page 72 for details of events and their numbers).
3. Once the required event is selected use the ◀ and ▶ keys to select SIA or Contact ID fields:

4. With the selected field use the ▲ and ▼ keys to change the value.
5. Press Area B key to change the 'Report Group' for the selected event type.
6. Press Omit key to toggle between 'New Event' and 'Restore Event' for the selected event type.
7. Press the Back← or ← key to exit the menu.

10. Set Time & Date

This menu option lets you change the system's time and date.

1. Ensure that the 'Set time & date' option is selected from the main menu:



2. Use the ▲ and ▼ keys to select 'Hours', 'Minutes', 'Seconds', 'Days', 'Months' or 'Years'. Then use the ◀ and ▶ keys to change the value.
3. Press the Back← or ← key to exit the menu.

11. User Menu

Please refer to master user guide for full details.

12. About

This menu option displays the information and about the devices connected to the system.

1. Ensure that the 'About' option is selected from the main menu:

2. Use the ▲ and ▼ keys to scroll through the system information.

About Screen Information
Line 1: Keypad in use and its software version.

Line 2: Control model and its software version.

Line 3: Number of keypads and zone expanders connected to the system.

Line 4: Number of zones in use and the maximum zones available.

Line 5: User codes in use.

Line 6: PSTN module fitted or not fitted.

Line 7: ZX-5C and its software version.

Line 8: Wi-Fi signal, IP address and port number.

Line 9: Ethernet IP address and port number.

Line 10: GSM signal and module fitted or not fitted.

3. Press the Back← or ⬅ key to exit the menu.

13. Exit Menu

This option will allow the engineer to exit to the home screen.

By exiting the menu this way, the system will still show as engineer being on site. Make sure to log off and exit.

14. Specifications & Standard

Electrical

Supply Voltage:	95 – 265Vac @50/60Hz
Power Supply Type:	A
Rated PSU Output:	7Ah Battery: 0.583A
	17Ah Battery: 1.41A
Nominal Output Voltage:	13.7Vdc
Output Current:	2.75A
Ripple:	0.2V pk-pk
Current Consumption:	95mA
Standby Battery:	Polymer Housing: 7 Ah SLA
	Metal Housing: 17 Ah SLA
Recharge Time:	<24 hours
Low Voltage Alarm:	10.5V
Over Voltage Cut-off:	16V
Deep Discharge Cut-off:	9.5V
Fuses (CP-50, CP-100, CP-200):	Mains: 1.6A
	Auxiliary: Programmable
	Network: Programmable
	Bell: Programmable
	Battery: 2A PTC
Network:	4-Wire standard 7/0.2mm alarm cable up to 500m
On-board Zones:	10
Panel Outputs (CP-30):	10; Outputs 1 - 8 Switched to 0V @100mA, Outputs 9 – 10 Switched to 0V @1A
Panel Outputs (CP-50, CP-100, CP-200):	20; Outputs 1 - 15 Switched to 0V @100mA, Output 17 voltage free change-over relay @3A, Outputs 18 – 20 Switched to 0V @1A
Loudspeaker Output:	Minimum load of 16 Ohm

Environmental

Operating Temperature:	-10°C to +55°C
Storage Temperature:	-20°C to +60°C
Max. Humidity:	95% non-condensing

Physical

Dimensions:	Polymer: 338mm x 287mm x 88mm
	Metal (Small): 305mm x 382mm x 85mm
	Metal (Large): 390mm x 390mm x 95mm
Material:	Polymer: 3mm ASA
	Metal: 1.2mm Mild Steel
Packed Weight:	Polymer: 2.0 Kg Metal (Small): 4.3 Kg Metal (Large): 5.3 Kg

NX-1 Specifications

Electrical

Input Voltage:	9 – 15Vdc (13.7V nominal)
Current Consumption:	25mA
Network:	4-wire 7/0.2 alarm cable up to 500m.

Environmental

Operating Temperature:	-10°C to +55°C
Storage Temperature:	-20°C to +60°C
Max. Humidity:	95% non-condensing

Physical

Dimensions:	40mm x 65mm x 27.5mm

Security

PD 6662:2017

EN 50131-1:2006+A1:2009

EN 50131-3:2009

Grade 3, Class II

EMC

Conforms to European Union (EU) Electro-Magnetic Compatibility (EMC) Directive 2014/30/EU and EN 50130-4:2011+A1:2014

EMC Environment: Residential / Commercial / Light Industrial / Industrial

CE: You can view the product EC Declaration of Conformity here: www.orisec.co.uk/compliance

WEEE Directive: 2012/19/EU Compliant: This symbol indicates that according to local laws and regulations, this product should not be disposed of as municipal/household waste. Instead, it should be disposed of at the appropriate collection points designated for the recycling of electrical and electronic equipment, or returned to Orisec upon purchase of new replacement products. This will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

RoHS Directive: 2011/65/EU Compliant:

Orisec declares that this product complies with and conforms to RoHS legislation that it does not contain more than the agreed levels of: Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent chromium (Cr6+), Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE)

Warranty

The Orisec CP-30, CP-50, CP-100 & CP-200 are guaranteed against defects in material or faulty workmanship for a period of 2 years from the date of purchase.

Disclaimer: Orisec will not accept any liability based on a claim that the Orisec CP-30, CP-50, CP-100 & CP-200 failed to perform correctly as it is a component part of an installation and not a complete intruder alarm system.

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Notes

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