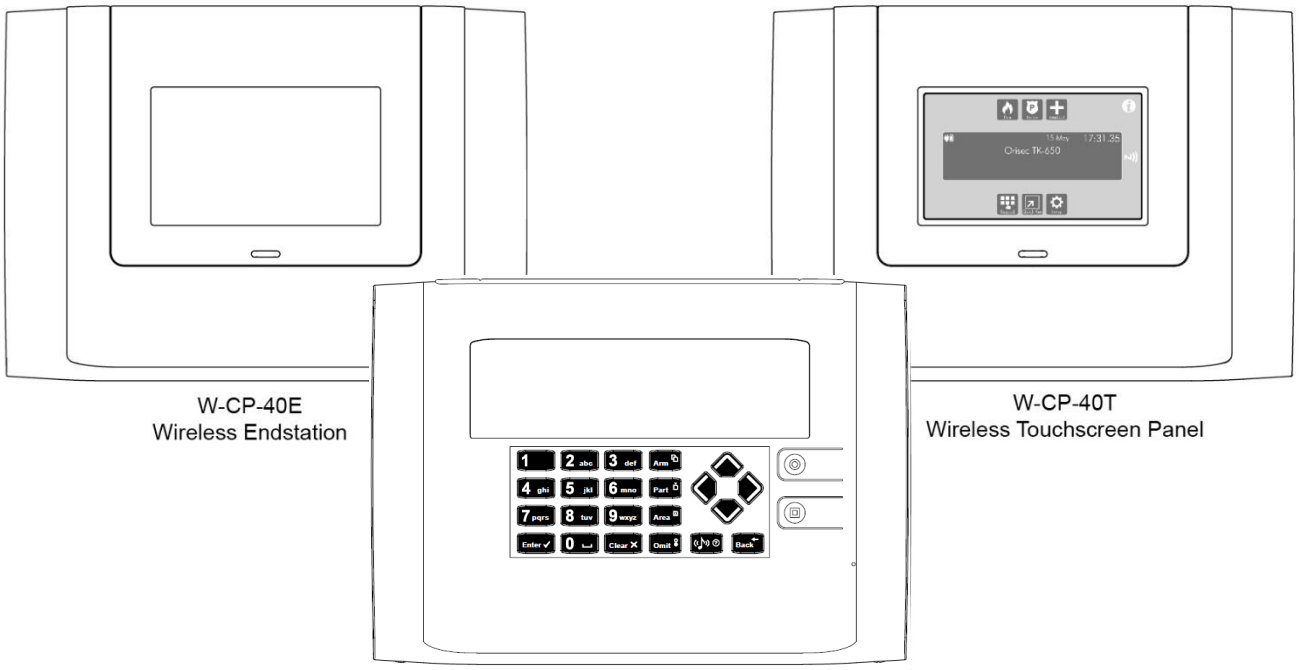
W-CP-40

Wireless Control Panels



Installation Manual

Please keep for future reference

Designed and Manufactured
in the United Kingdom

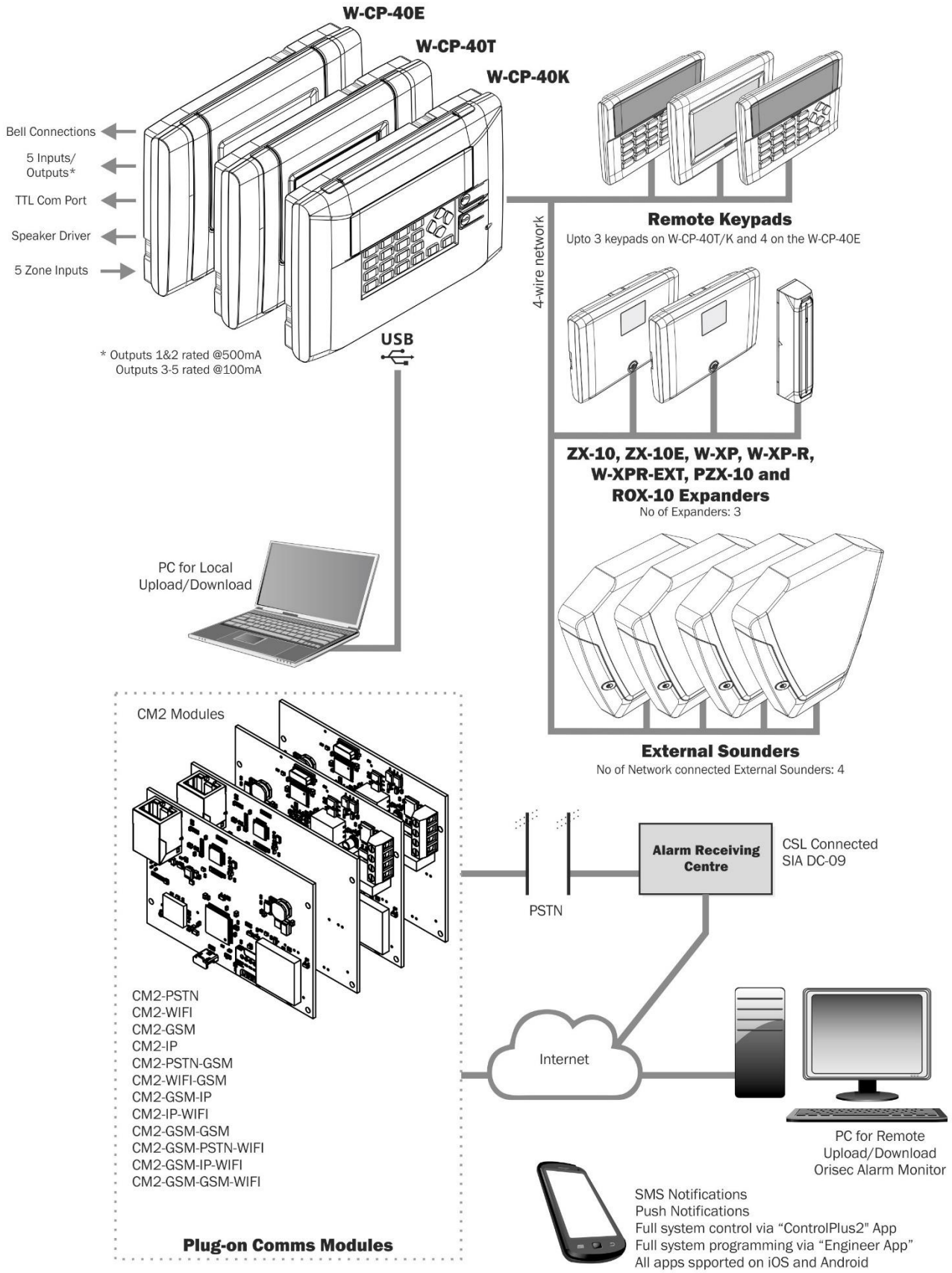
www.orisec.co.uk

Notes

Contents

1. System Overview

W-CP-40 System Configuration



Control Panels

W-CP-40-K

- Grade 2
- Stand-Alone Wireless Panel
- Integrated keyed keypad
- Up to 40 Zones
- Up to 10 On Board Zones
- Up to 5 Panel Outputs
- Dedicated SAB Outputs
- Network External Sounder Support
- Integrated Help File
- Integrated Keyed Keypad
- Selectable Language Per User
- NFC Prox Tag Support
- Voice Annunciation
- Compact All-in-one design
- Integrated 2-Button Personal Alarm
- ControlPlus2 End user application (iOS & Android)
- 'Engineer App' Installer application (iOS & Android)
- Orisec UDL program (Windows based application)

W-CP-40-T

- Grade 2
- Stand-Alone Wireless Panel
- Integrated Touch Screen Keypad
- Up to 40 Zones
- Up to 10 On Board Zones
- Up to 5 Panel Outputs
- Dedicated SAB Outputs
- Network External Sounder Support
- Integrated Help File
- Integrated Touch Keypad
- Selectable Language Per User
- NFC Prox Tag Support
- Voice Annunciation
- QWERTY Keyboard
- Compact All-in-one design
- ControlPlus2 End user application (iOS & Android)
- 'Engineer App' Installer application (iOS & Android)
- Orisec UDL program (Windows based application)

W-CP-40-E

- Grade 2
- Stand-Alone Wireless Panel
- Blank Endstation
- Up to 40 Zones
- Up to 10 On Board Zones
- Up to 5 Panel Outputs
- Dedicated SAB Outputs
- Network External Sounder Support
- Voice Annunciation
- Compact All-in-one design
- ControlPlus2 End user application (iOS & Android)
- 'Engineer App' Installer application (iOS & Android)
- Orisec UDL program (Windows based application)

Expanders

	ZX-10	ZX-10-PLUS	ZX-10-E	ZX-10-E-PLUS	ZX-10-L	PZX-10
Description	Zone and Output Expander	Zone and Output Expander	Zone Expander	Zone Expander	Local Zone Expander	Powered Zone Expander
Zones	10	10	10	10	10	10
Outputs	10	10	-	-	-	10
On Board Piezo	✓	✓	-	-	-	✓
16 Ohm Speaker Support	✓	✓	-	-	-	✓
Tamper Detection	Lid, Wall & Screw	Lid & Wall	Lid, Wall & Screw	Lid & Wall	-	Lid & Wall
RJ45 Support for Network In/Out	✓	✓	-	-	-	✓
7 Segment Display	✓	✓	-	-	-	✓
Address Noise Notification	✓	✓	-	-	-	✓
Local Diagnostics	✓	✓	-	-	-	✓
Temperature Sensor	✓	✓	✓	✓	-	✓
2 Way Wireless Comms	-	-	-	-	-	-
Light Sensor	✓	✓	-	-	-	-
Tamper Return Terminal for External Sounders	-	-	-	-	-	-
Antenna Diversity	-	-	-	-	-	-
Frequency Hopping Technology	-	-	-	-	-	-
Acts as a wireless repeater	-	-	-	-	-	-
Housing	High Density ASA	High Density ASA	High Density ASA	High Density ASA	-	High Density ASA / 1.2mm Steel
Plug-on Compatibility	-	-	-	-	-	-
Address Selection	1-10	1-10	1-10	1-10	1	1-10

	W-XP	W-XP-R	W-XPR-EXT	W-AP	ROX-10
Description	Wireless Expander	Wireless Expander or Repeater	Wireless Expander or Repeater	Wireless Access Point	Network, Standalone or wireless expander with 10 relays
Zones	-	-	-	-	10* / 2**
Outputs	2	-	-	-	10 – 1A 24V NO/NC Relays
On Board Piezo	✓	-	-	-	✓*
16 Ohm Speaker Support	✓	-	-	-	✓*
Tamper Detection	Lid, Wall & Screw	Lid & Wall	Lid & Wall	-	Lid & Wall
RJ45 Support for Network In/Out	✓	-	-	-	-
7 Segment Display	✓	-	-	-	-
Address Noise Notification	✓	-	-	-	✓*
Local Diagnostics	✓	-	-	-	-
Temperature Sensor	✓	✓	✓	-	✓
2 Way Wireless Comms	✓	✓	✓	✓	✓**
Light Sensor	✓	-	-	-	-
Tamper Return Terminal for External Sounders	✓	-	-	-	-
Antenna Diversity	✓	-	-	-	-
Frequency Hopping Technology	✓	✓	✓	✓	✓**
Acts as a wireless repeater	-	✓	✓	-	✓**
Housing	High Density ASA	High Density ASA	High Density ASA	-	High Density ASA
Plug-on Compatibility	-	-	-	✓	-
Address Selection	1-10	1-3	1-10	-	1-10*

*Network mode only

**Learnt as a wireless device only

Communication modules

CM2 Modules

Product Name	CM2-WIFI	CM2-GSM	CM2-IP	CM2-WIFI-GSM	CM2-GSM-IP	CM2-GSM-GSM	CM2-GSM-PSTN-WIFI	CM2-IP-WIFI-GSM	CM2-GSM-GSM-WIFI
Description	Wi-Fi Module	GSM/GPRS Module	IP Module	Dual Path GSM + Wi-Fi Module	Dual Path Ethernet + GSM Module	Dual Path GSM + GSM Module	Triple path GSM + PSTN + WIFI Module	Triple Path Ethernet + WIFI + GSM Module	Triple Path GSM + GSM + WIFI Module
Plug-on Compatibility	CP-20 & CP-60	CP-20 & CP-60	CP-20 & CP-60	CP-20 & CP-60	CP-20 & CP-60	CP-20 & CP-60	CP-20 & CP-60	CP-20 & CP-60	CP-20 & CP-60
Features	UDL, Apps & Internal/ External Antenna Option	UDL, Apps & External Antenna	UDL & Apps	Apps, Internal/ External Antenna Option & UDL	External Antenna, UDL & Apps	UDL, Apps & Internal/External Antenna Option	Apps, Internal/ External Antenna Option & UDL	Apps, Internal/ External Antenna Option & UDL	Apps, Internal/ External Antenna Option & UDL
Protocols	IEEE 802.11B/G/N WEP, WPA & WPA2-PSK	2G/3G/4G, SMS Quad Band Module, Speech Dialler & SMS Messaging	10/100 Mbps, TCP/IP, UDP, DHCP, & HTTP	IEEE 802.11B/G/N WEP, WPA & WPA2-PSK, 2G/3G/4G, SMS, Speech Dialler, SMS Messaging & Quad Band Module	2G/3G/4G, SMS Quad Band Module, 10/100 Mbps, TCP/IP, UDP, DHCP, Speech Dialler, SMS Messaging & HTTP	2G/3G/4G, Speech Dialler, SMS Messaging, SMS & Quad Band Module	Fast Format, Contact ID, SIA, IEEE 802.11B/G/N WEP, WPA & WPA2-PSK, 2G/3G/4G, SMS, Speech Dialler, SMS Messaging & Quad Band Module	IEEE 802.11B/G/N WEP, WPA & WPA2-PSK, 2G/3G/4G, SMS Quad Band Module, 10/100 Mbps, TCP/IP, UDP, DHCP, Speech Dialler, SMS Messaging & HTTP	IEEE 802.11B/G/N WEP, WPA & WPA2-PSK, 2G/3G/4G, SMS, Speech Dialler, SMS Messaging & Quad Band Module

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 any Remote Keypads
Mount any 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 any wired detection devices and connect to the applicable zone input (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 battery lead to the Battery connector. Then, connect the AC.

7. Default the Control Panel and Program the System
Please see pages 24-26 for defaulting process, depending on the panel type being used. 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.

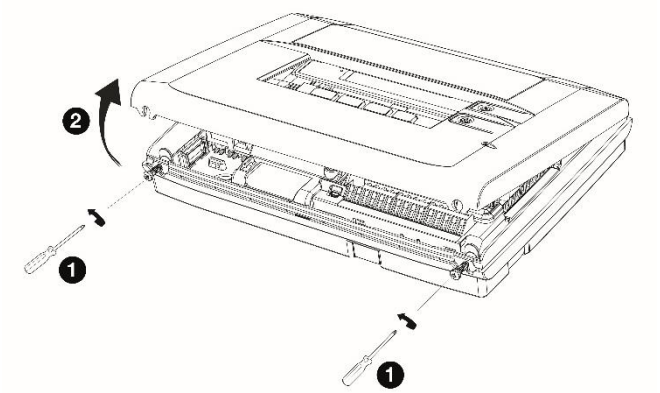
8. Test the system
Perform a thorough test of the alarm system, checking that the zones, bell and communications are all functioning correctly.

Control Panel Installation

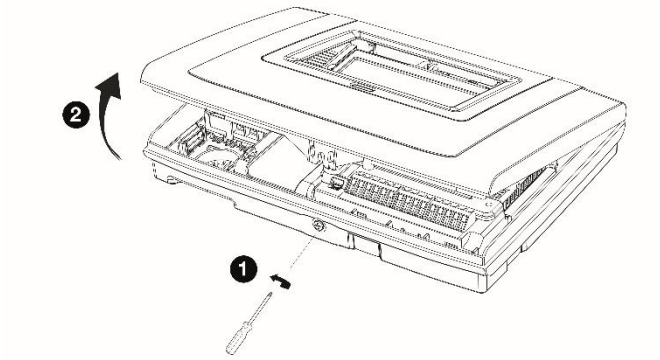
Mounting

The control panel should be mounted on a flat, plumb wall using at least three appropriate screws.

To remove the control panel lid on a W-CP-40K, undo the two screws located at the bottom of the control panel until the front cover can be prised off from the bottom. Note that the screws will be retained and there is no need to fully remove it.

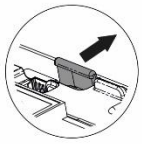


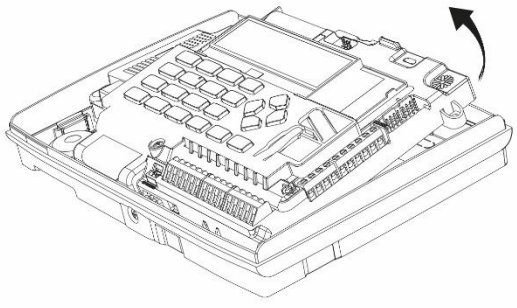
To remove the control panel lid on a W-CP-40T or W-CP-40E, undo the screw on the bottom of the control panel until the front cover can be prised off from the bottom. Note that the screw will be retained and there is no need to fully remove it.



To remove the PCB chassis: disconnect the SMPS connector and speaker connector, then carefully push the clip release tag upwards and pull the PCB chassis forward from the top. Push the clip release tag upwards a second time to fully remove the PCB chassis.

To replace the PCB chassis, reverse the above procedure.



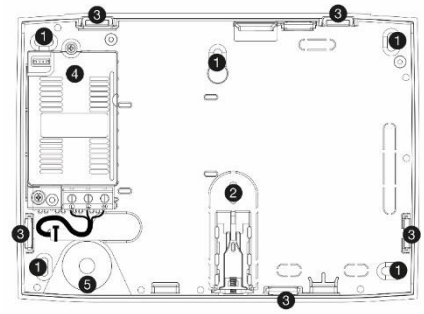


If wall tamper is required a screw should be fitted on the breakaway tamper platform.

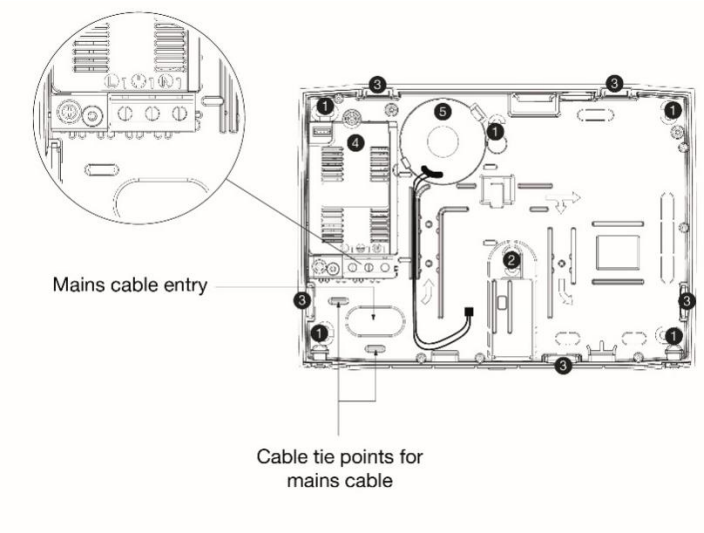
It is essential to ensure that none of the fixing slots or cable entries are accessible after fixing.

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

W-CP-40T & W-CP-40E



W-CP-40K



1. Mounting Screw Locations
2. Wall Tamper Screw Location
3. Removable Cable Entry Shutters
4. PSU
5. Loudspeaker

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.

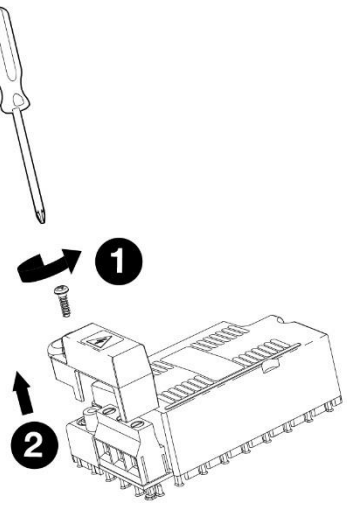
Where identification of the neutral in the mains supply is not possible, a two-pole disconnection device must be used.

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

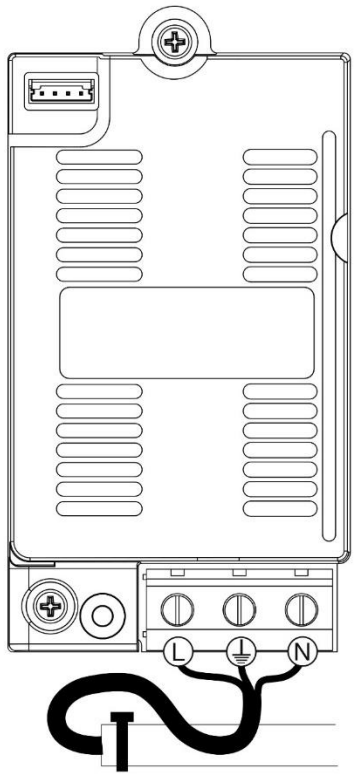
Mains Supply Connection

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:



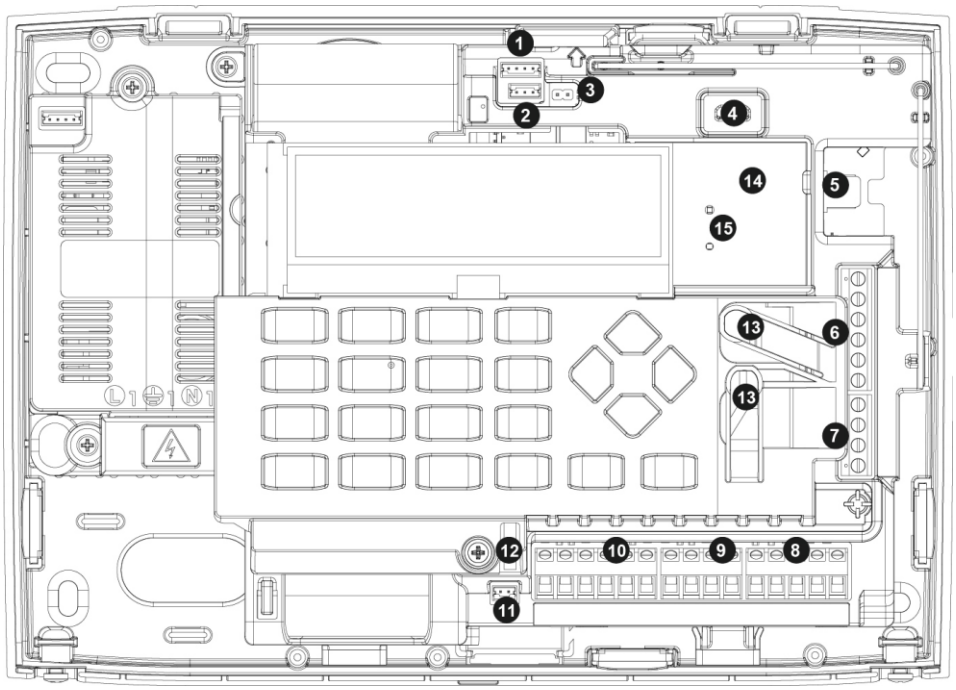
3. Once the mains wiring is completed, replace the cable access cover.

Standby Battery

The control panel is supplied with a rechargeable 2.4 mAh NiMH 12V backup battery in order to provide continued operation in the event of an AC mains failure.

IMPORTANT: to ensure safety and compatibility only use Orisec batteries when replacing.

W-CP-40K Internal Layout



1. SMPS Power Connector
The red, yellow, white and black harness lead from the switched mode power supply module plugs onto this connector and provides 13.7V_{DC} to power the system.

2. Battery Connector
The red, white and black harness lead from the 2.4 mAh NiMH battery plugs on to this connector to provide continuous system operation in the event of mains failure.

3. 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.

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

5. RS-232 Comport
Com port 1 can be used by 3rd party devices that require TTL level serial communication, see page 57 for details.

6. Programmable Inputs / Outputs
These terminals may be programmed as Outputs 1-5 or as Zone Inputs 6-10. When configured as Zone Inputs the other side of each zone connection should be connected to the 0V terminal.

7. Network Connections
The network terminals provide connections to the remote keypads and zone expanders. The 12V and 0V terminals provide power whilst the C and D terminals are the data signals. The Network is protected by a fixed 0.5A PTC.

8. External Sounder Connections
These five terminals provide connections to one or more external sounder units, see page 23 for further details.

9. Auxiliary 12V
These terminals provide auxiliary power for detection devices that require 12V power, e.g., moment sensors. The auxiliary 12V output is protected by a fixed 0.5A PTC.

10. Zone Inputs 1 to 5
Hard wired detection devices may be connected to the zone inputs. There are several ways in which to wire a detection device, see 'Wiring Detection Devices' on page 21. Each zone is fully programmable, see 'Zone Programming' on page 28. As well as the 5 dedicated zone inputs there are 5 additional programmable inputs/outputs which can also be programmed as zones if required (see 7 above).

11. Speaker Connector
The red and black lead from the integrated speaker should be connected here. If required, the existing connection can be snipped and joined to a standard 16 Ohm extension speaker.

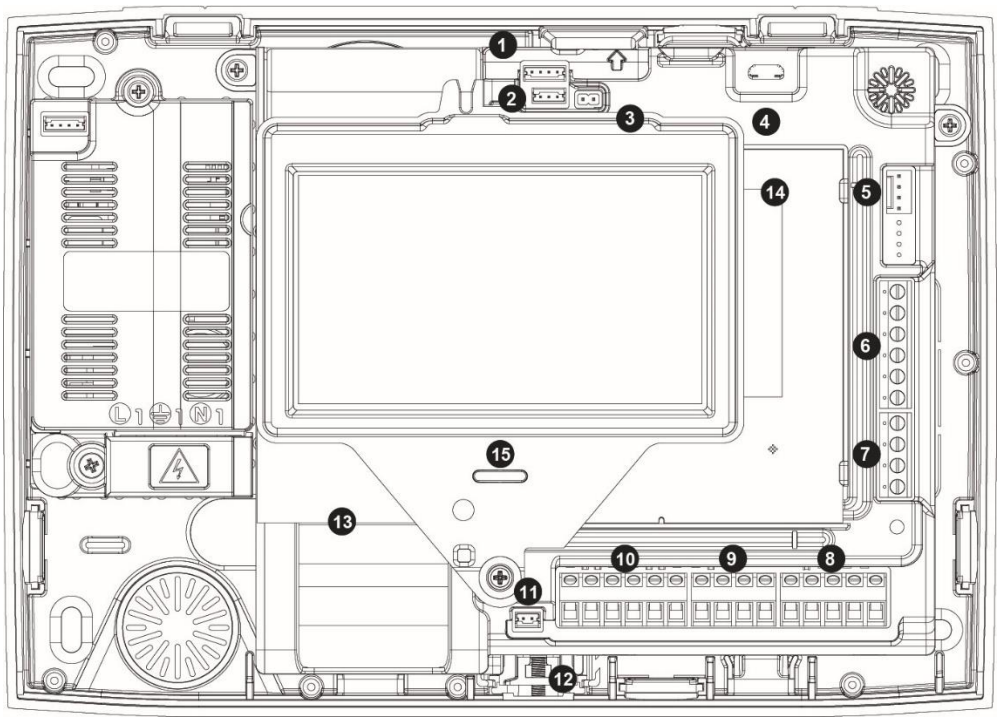
12. Tamper Mechanism
A tamper condition will be signalled and indicated locally once the lid has been removed form the control panel. This is monitored via the Microswitch shown. Additionally, To enable wall tamper the breakaway tamper holder should be screwed into the mounting surface.

13. Dedicated PA Buttons
Dedicated dual push PA buttons for compliance with NPCC policy.

14. NFC Prox Tag Reader
Location where NFC Prox tags can arm and disarm the panel.

15. Light Sensor
The light sensor adjusts the screen brightness depending on ambient light levels. It can also be programmed to trigger outputs in specific scenarios.

W-CP-40T Internal Layout



1. SMPS Power Connector
The red, yellow, white and black harness lead from the switched mode power supply module plugs onto this connector and provides 13.7V_{DC} to power the system.

2. Battery Connector
The red, white and black harness lead from the 2.4 mAh NiMH battery plugs on to this connector to provide continuous system operation in the event of mains failure.

3. 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.

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

5. RS-232 Comport
Com port 1 can be used by 3rd party devices that require TTL level serial communication, see page 57 for details.

6. Programmable Inputs / Outputs
These terminals may be programmed as Outputs 1-5 or as Zone Inputs 6-10. When configured as Zone Inputs the other side of each zone connection should be connected to the 0V terminal.

7. Network Connections
The network terminals provide connections to the remote keypads and zone expanders. The 12V and 0V terminals provide power whilst the C and D terminals are the data signals. The Network is protected by a fixed 0.5A PTC.

8. External Sounder Connections
These five terminals provide connections to one or more external sounder units, see page 23 for further details.

9. Auxiliary 12V
These terminals provide auxiliary power for detection devices that require 12V power, e.g., moment sensors. The auxiliary 12V output is protected by a fixed 0.5A PTC.

10. Zone Inputs 1 to 5
Hard wired detection devices may be connected to the zone inputs. There are several ways in which to wire a detection device, see 'Wiring Detection Devices' on page 21. Each zone is fully programmable, see page 28. There are 5 additional programmable inputs/outputs which can also be programmed as zones if required (see 7 above).

11. Speaker Connector
The red and black lead from the integrated speaker should be connected here. If required, the existing connection can be snipped and joined to a standard 16 Ohm extension speaker.

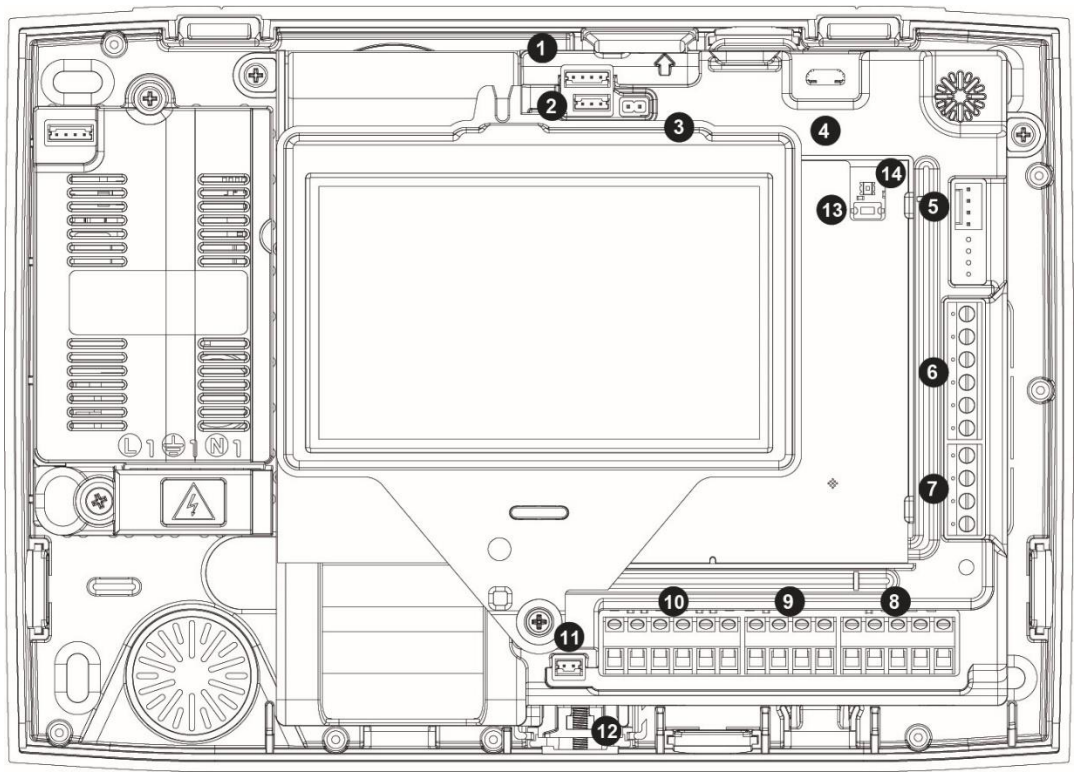
12. Tamper Mechanism
A tamper condition will be signalled as the screw is unscrewed, before it is possible to remove the lid. To also enable wall tamper the breakaway tamper holder should be screwed into the mounting surface.

13. USB Connection for Touch Keypad
Micro USB socket that can be used to upload screen logos or to flash upgrade the touch keypad firmware. (See also 4) .

14. NFC Prox Tag Reader
Location where NFC Prox tags can arm and disarm the panel.

15. Status LED & Light Sensor
The light sensor adjusts the screen brightness depending on ambient light levels. It can also be programmed to trigger outputs in specific scenarios.

W-CP-40E Internal Layout



1. SMPS Power Connector
The red, yellow, white and black harness lead from the switched mode power supply module plugs onto this connector and provides 13.7V_{DC} to power the system.

2. Battery Connector
The red, white and black harness lead from the 2.4 mAh NiMH battery plugs on to this connector to provide continuous system operation in the event of mains failure.

3. 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.

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

5. RS-232 Comport
Com port 1 can be used by 3rd party devices that require TTL level serial communication, see page 57 for details.

6. Programmable Inputs / Outputs
These terminals may be programmed as Outputs 1-5 or as Zone Inputs 6-10. When configured as Zone Inputs the other side of each zone connection should be connected to the 0V terminal.

7. Network Connections
The network terminals provide connections to the remote keypads and zone expanders. The 12V and 0V terminals provide power whilst the C and D terminals are the data signals. The Network is protected by a fixed 0.5A PTC.

8. External Sounder Connections
These five terminals provide connections to one or more external sounder units, see page 23 for further details.

9. Auxiliary 12V
These terminals provide auxiliary power for detection devices that require 12V power, e.g., moment sensors. The auxiliary 12V output is protected by a fixed 0.5A PTC.

10. Zone Inputs 1 to 5
Hard wired detection devices may be connected to the zone inputs. There are several ways in which to wire a detection device, see 'Wiring Detection Devices' on page 21. Each zone is fully programmable, see page 28. There are 5 additional programmable inputs/outputs which can also be programmed as zones if required (see 7 above).

11. Speaker Connector
The red and black lead from the integrated speaker should be connected here.

12. Tamper Mechanism
A tamper condition will be signalled as the screw is unscrewed, before it is possible to remove the lid. To also enable wall tamper the breakaway tamper holder should be screwed into the mounting surface.

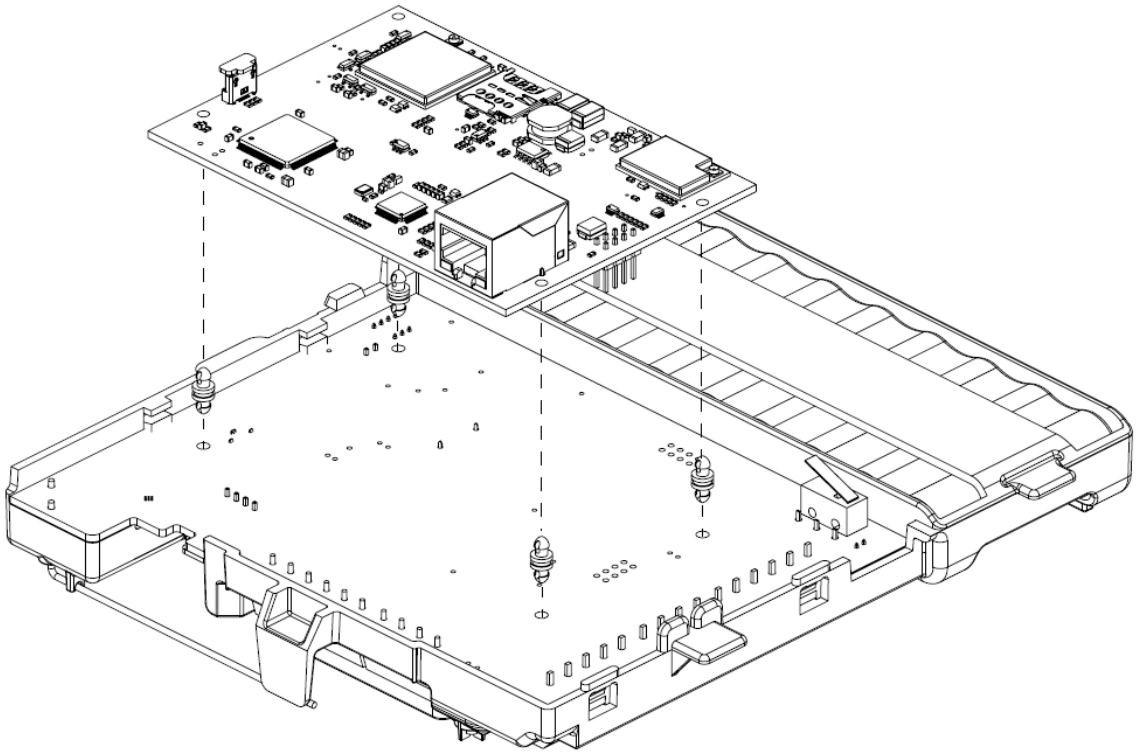
13. SELECT button
The SELECT button can be used for multiple functions including: learning a wireless keypad, defaulting the engineer code, reporting codes or the whole control panel.

14. Status LED
The Status LED is used in conjunction with the SELECT button to indicate multiple functions.

Fitting a Communicator Module

There are a wide range of single-path and dual-path communicator modules available for the W-CP-40. These are fitted to the rear of the main PCB as shown below.

Align the module PCB so the connector pins go through the main PCB into the socket behind.



3. Adding Wireless Devices

The W-CP-40 can operate as an entirely wireless control panel or can be hardwired or a combination of the two.

This section describes how to add wireless devices to the W-CP-40K, W-CP-40T or a W-CP-40E if it has a keypad connected.

For information on connecting wired devices see page 19.

Learning Wireless Devices

The W-CP-40 supports up to 40 wireless detectors, keypads or sounders and also up to 40 remote key fobs.

Wireless detectors, keypads and sounders are learned to Zones on the control panel. Remote key fobs are learned to Users. Each user can have a code, a prox tag and a remote key fob assigned if required.

To learn: Wireless Detectors, Keypads & Sounders

1. Enter engineering mode (default 1234)
2. Scroll down to "Setup Wireless Zones"
3. Scroll right to required zone
4. Scroll down to "ID"
5. Press and hold the 'Learn or PROG' button on the wireless device and insert the battery/s.
6. After 2-3 seconds release the 'Learn or PROG' button
7. Press the 'Learn or PROG' button 1-5 times to learn in the wireless device.

To Learn: Wireless Key Fobs

1. Enter engineering mode (default 1234)
2. Enter "Programming menu"
3. Scroll down to "User Setup"
4. Scroll right to required user
5. Scroll down to "Key fob"
6. Press and hold 'Button 1' on the key fob for one second.

Locating Wireless Devices

For reliable operation it is important that wireless devices such as detectors, sounders & keypads have a good RF signal strength.

Signal strength can be indicated in several ways:

- At the device itself (detector, sounder etc)
- On any LCD or touch keypad
- Via UDL software

For information on how to view the signal strength at the device itself see the device's installation manual. Typically these indicate: Good, Medium or Low signal strengths.

To view a device's signal strength from a keypad:

1. Enter engineering mode (default 1234)
2. Scroll to "Tests & Diagnostics" and press Enter✓ or ✓
3. Scroll to "Wireless Status" and press Enter✓ or ✓
4. Scroll right to the relevant zone.

To view a device's signal strength from UDL software:

1. Select "Real Time"
2. Select "Wireless"

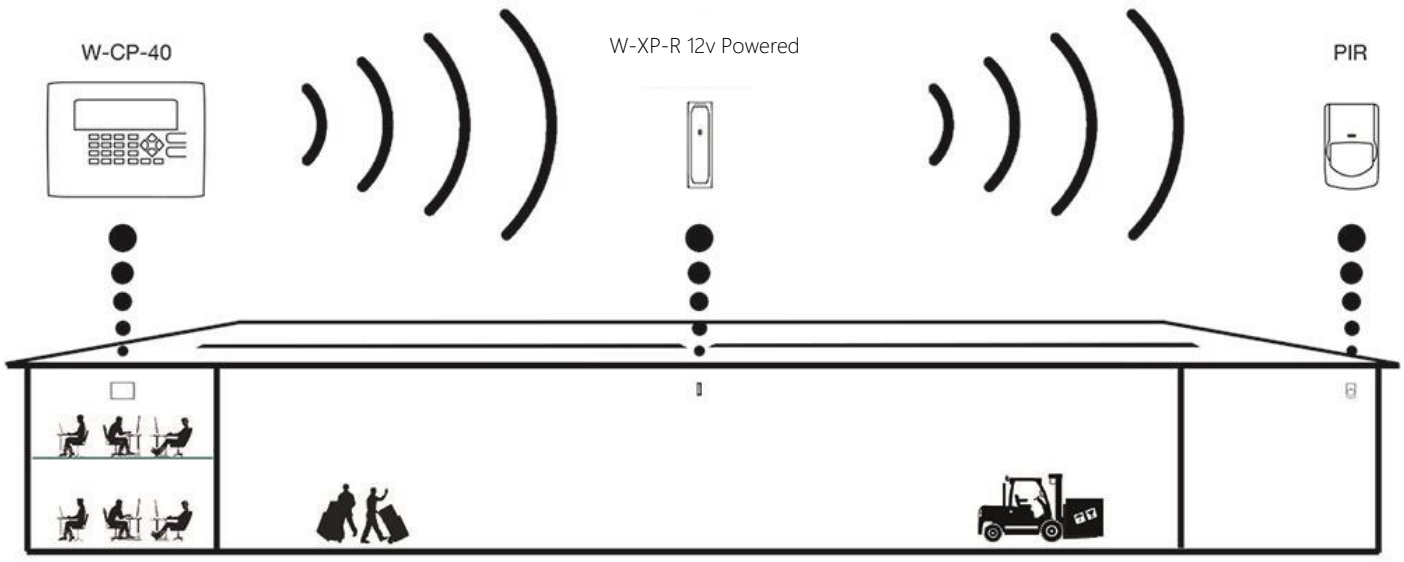
The signal strength shown on the keypads or via UDL is as a percentage.

Orisec wireless devices typically provide more than 150m range line of sight, however there are many factors that can affect range.

Metal objects, thick walls, electrical cables and other RF devices are all examples that should be avoided where possible.

When looking for a suitable mounting location for a wireless device, check the signal strength first and only install where it is "Good", "Medium", or over 50%.

Additional range can be achieved by using additional wireless expanders, keypads with inbuilt wireless expanders, 12v powered wireless devices or wireless repeaters.



4. Connecting Wired Devices

The W-CP-40 can operate as an entirely wireless control panel or can be hardwired or a combination of the two.

This section describes how to connect wired devices to the W-CP-40.

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 right-hand side 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:

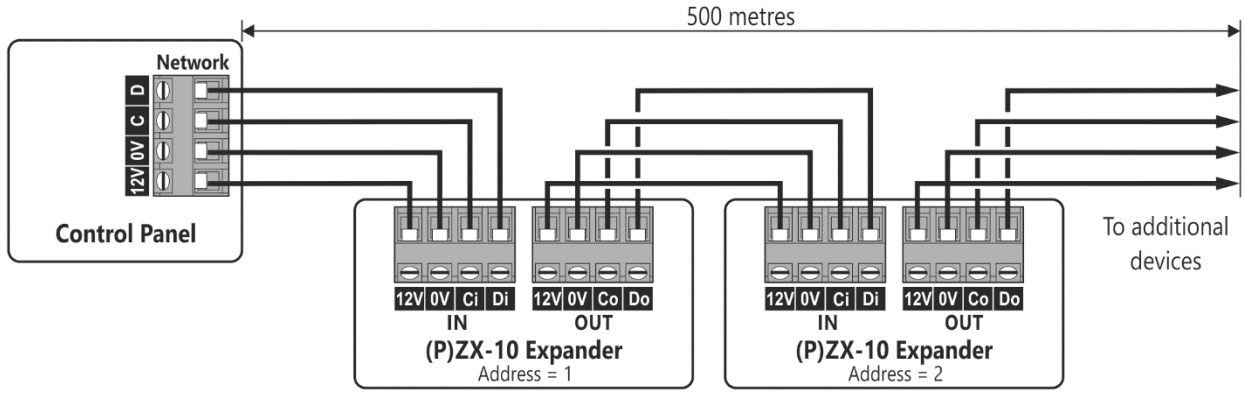
1. Use thicker lower resistance cable. Standard 7/0.2 alarm cable has a resistance of 8 Ohm per 100m.
2. Double up on the power connections. This will require using a 6 or 8-core cable rather than a 4-core cable.
3. Install an additional Orisec power supply such as a PZX-10 powered expander to power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

Installing a 3rd Party Power Supply

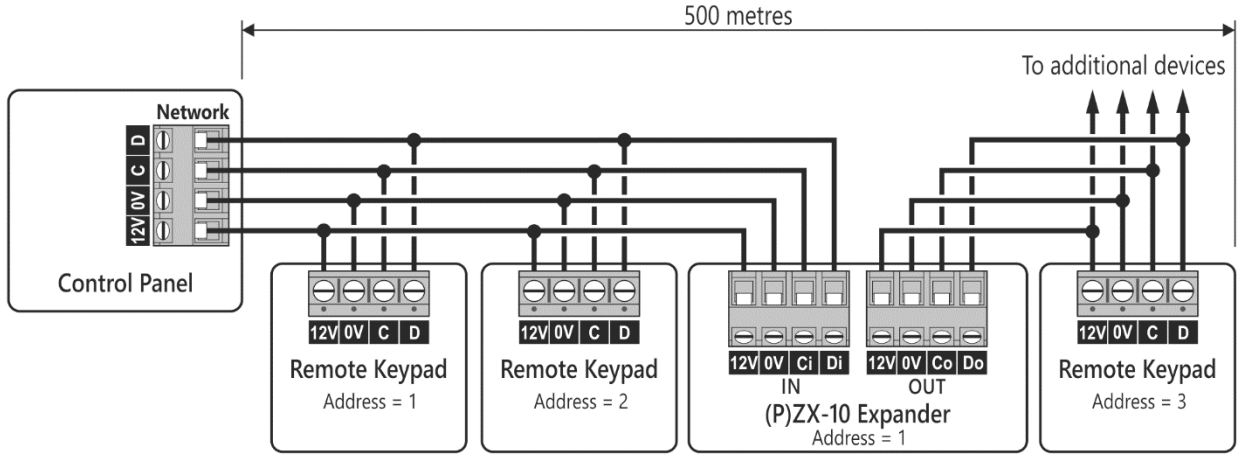
When a 3rd party power supply is installed, the 0V connections on the power supply must be connected through to 0V on the control panel and the +12V connection between the control panel and the device must be disconnected, see wiring example on next page.

Network wiring examples

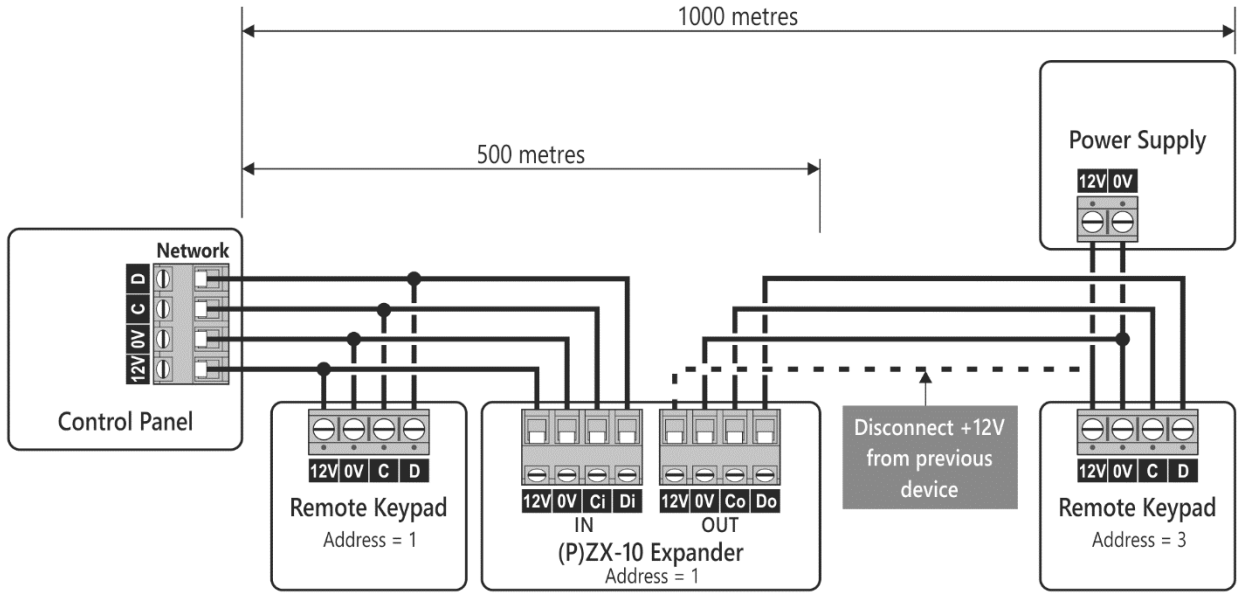
Zone Expander – with standard alarm cable



Zone Expanders and keypads – with standard alarm cable



Zone Expanders and Keypads – with a power supply

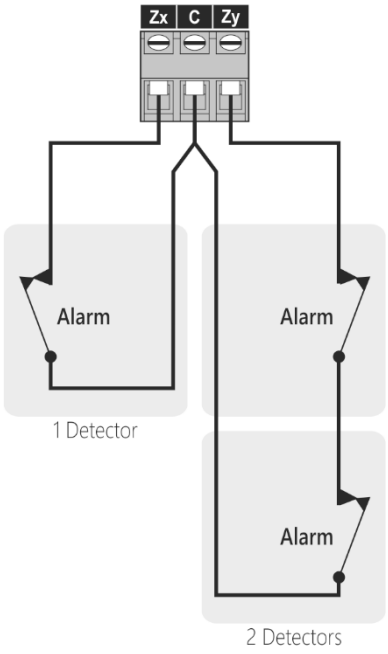


Wiring Detection Devices

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 29.

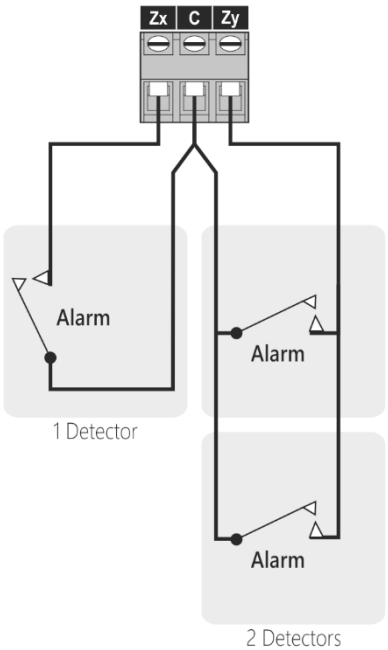
Normally Closed

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.



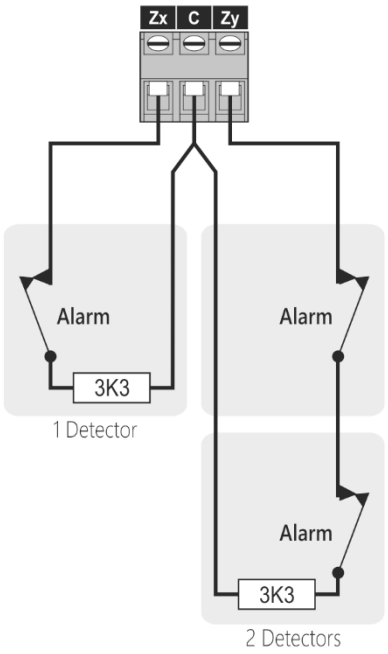
Normally Open

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.



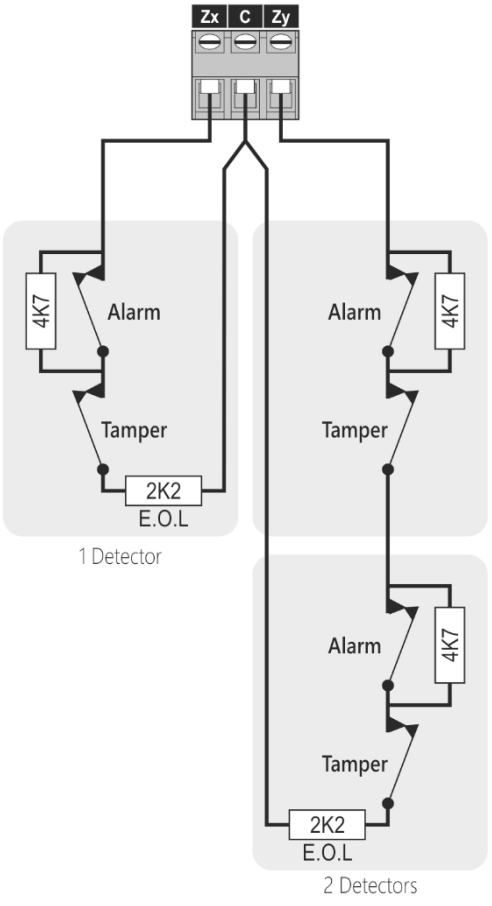
Single EOL - N/C

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

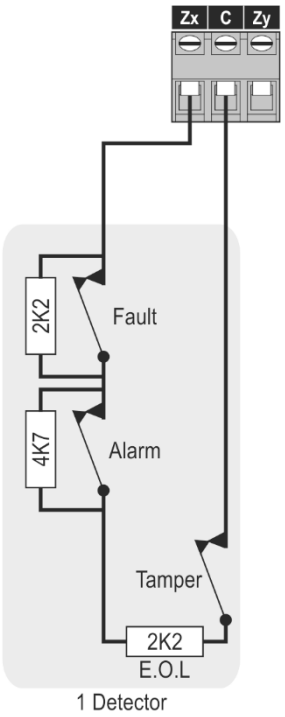
This wiring configuration should be used when connecting detection devices that have a normally closed alarm and tamper output. Connect the detector as shown below and ensure that the zone is programmed for "Double EOL" operation



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.

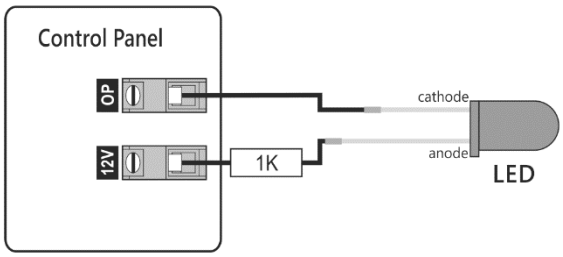
Alternative DEOL and TEOL Values

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 29.

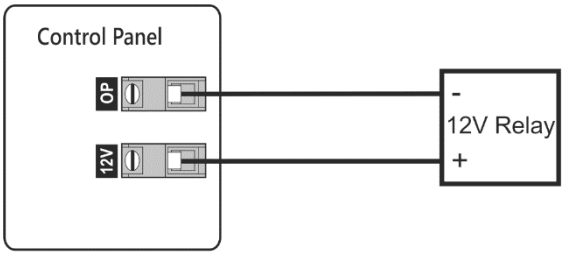
Panel Outputs

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:

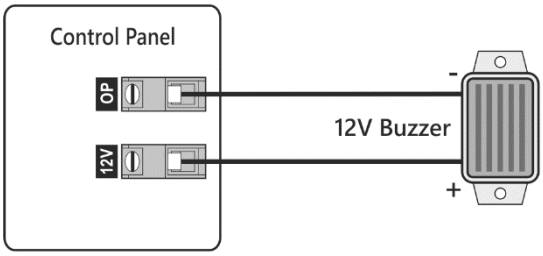
LED Indicator



Relay Driver



Buzzer Driver



External Sounder/Strobe Connections

For enhanced system performance, the Orisec external sounder range is recommended for use with the W-CP-40.

The W-CP-40 supports up to 4 wired external sounders. To ensure sufficient backup battery time it is recommended to run the first sounder in "Low Power Mode" (JP2 upper pin) and the second sounder in "SCB Mode" (JP1 upper pin).

Network Wiring

The Orisec external sounder range can 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.

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.

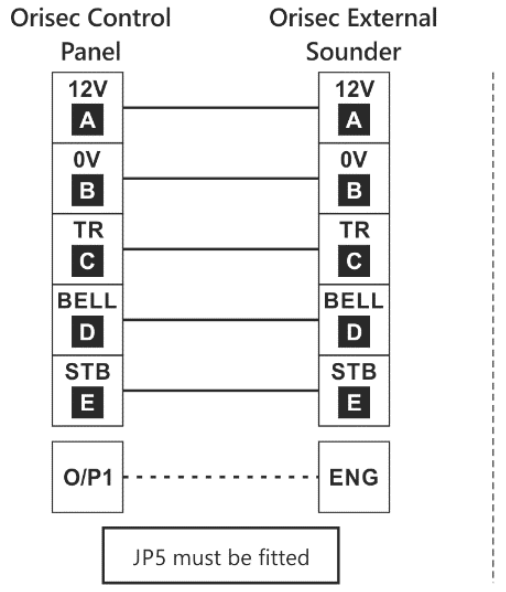
D Bell

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

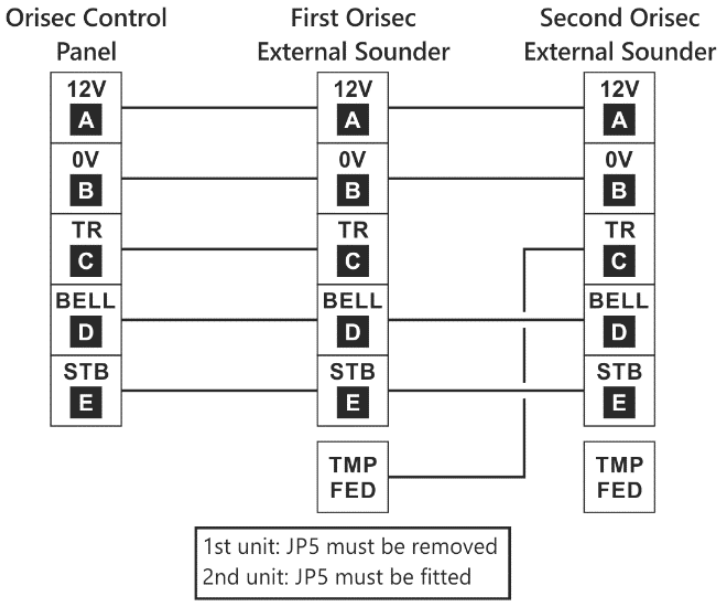
E Strobe

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

Single Unit Connection



Muliple Unit Connection



5. Local Keypad Menus

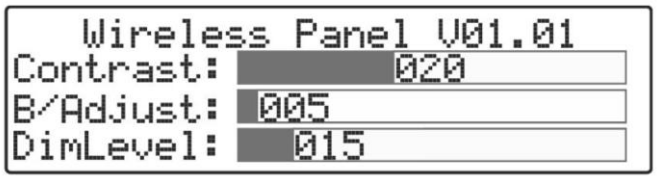
Introduction

The W-CP-40 series of control panels have 'Local Menus' unique to each different variant (K/T/E).

The local menus allow adjustments of the display (W-CP-40 K/T only) and the ability to default aspects of the control panel. These menus are separate from the main programming menu which is described from page 27 onwards.

W-CP-40K Local Menu

To access the local setup menu on the W-CP-40K press and hold the Enter✓ and Back← keys simultaneously for three seconds. The LCD will display a screen similar to this:



Contrast

Use this option to set the contrast on the LCD display.

B/ Adjust:

Use this option to set the LCD backlight brightness.

Dim Level

The keypad screen will dim when left idle. Dim Level adjusts the light level of the keypad screen when in this mode.

Keypad Light On

- ■ The key buttons are permanently illuminated.
- □ The key buttons are only illuminated by the internal light sensor in dark conditions.

Default Panel

This option will default the entire control panel back to factory settings.

The screw tamper on the control panel must be open and the engineer logged in to the control panel to default the control panel.

Default Engineers Code

This option will default the Engineers code back to 1234.

The screw tamper on the control panel must be open to default the engineers code.

Default Reporting Codes

This option will default all reporting codes in the control panel back to factory settings.

The screw tamper on the control panel must be open and the engineer logged in to the control panel to default the reporting codes.

W-CP-40T Local Menu

To access the local setup menu on the W-CP-40T press the setup icon which is located from the 'Home' menu on the keypad. The Setup 'Icon' will only appear when either the system is in engineer's mode, a valid code on the system has been entered (setup will remain present for 30 seconds after exiting menu) or the screw tamper of the control panel is open.

Display timeout

The keypad display brightness will the change to the defined 'Dim Level' after the programmed period of no activity. (Default 1 minute)

Dim Level

The display brightness level that is used after 'Display timeout'. (Default 22)

Keypad timeout

When the keypad has not been used for programmed period it will display either the home screen/ Quick Keys screen or the logo screen. (dependent on programming, please see 'Keypad Options'). (Default 10 minutes)

Keypad Options

Use this option to set the following keypad options:

Visual feedback: If enabled button icons are highlighted when touched.

Secure keypad: If enabled the number keypad is scrambled during entry mode.

Quick keys when idle: if enabled the 'Quick Keys' are displayed on the bottom of the display after the programmed period of no activity from the 'Keypad timeout'.

Show Logo Screen: If enabled, the company logo screen is displayed after the 'Keypad timeout' period. The logo can also be displayed by selecting the 'Info' icon from the top right on the 'Home' screen. The company logo must be uploaded to the keypad via the Micro USB connection using the 'Orisec RKP Logo Editor' software.

Sync Colour Theme: If enabled the keypad colour themes are synced to all other TK-650 keypads on the network.

Keypad Colours Use this option to customise the display colours, there are 20 predefined colour themes to choose from or you can create your own theme.

Default Engineers Code

This option will default the Engineers code back to 1234. Once the option has been selected press the 'TICK' icon to confirm the defaulting for the Engineers code.

The screw tamper on the control panel must be open to default the engineers code.

Default Reporting Codes

This option will default all reporting codes in the control panel back to factory settings. Once the option has been selected press the 'TICK' icon to confirm the defaulting for the Reporting Codes.

The screw tamper on the control panel must be open and the engineer logged in to the control panel to default the reporting codes.

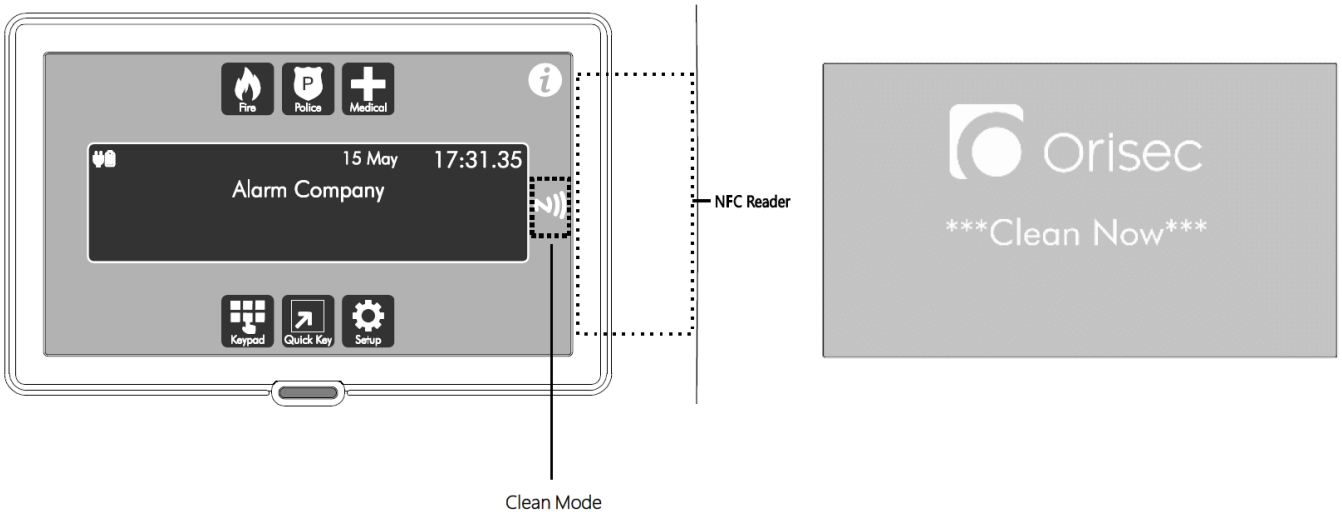
Default Panel

This option will default the entire control panel back to factory settings. Once the option has been selected press the 'TICK' icon to confirm the defaulting for the control panel.

The screw tamper on the control panel must be open and the engineer logged in to the control panel to default the control panel. Mains must also be disconnected from panel in order to default.

W-CP-40T Clean Mode

This option temporarily disables the touchscreen from sensing button presses so that the screen can be wiped clean. 'Clean mode' is activated by pressing on the NFC logo. Once the keypad is in 'Clean mode' it will remain in this state until a 5 second period has passed with no activity.

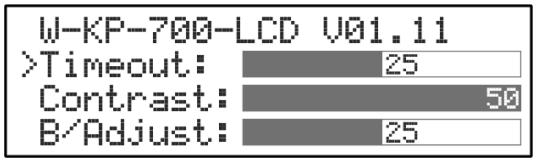


W-CP-40E Local Menu

The W-CP-40E has a "SELECT" button and a Status LED on the main PCB which can be used for local programming, see page 15.

Learn a Wireless Keypad

1. Press and hold SELECT button until the status LED flashes red (about 2 seconds).
2. Press the 'SELECT' button again, the control panel will now locate the next available free zone (normally zone 11) and the status LED flashes green to indicate the control panel is in 'Learn' Mode.
3. On the wireless keypad press any key to wake the keypad up.
4. Press both the Back← and Enter✓ keys simultaneously and hold until the local setup menu is displayed:



5. Use the ◈ and ◈ keys to navigate to the 'Press ✓ to learn' option.
6. Whilst the control panel is in 'Learn' mode, press Enter✓.

Default Engineers Code

1. Ensure the lid tamper is open.
2. Press and hold SELECT button until the status LED is solid green (about 4 seconds).
3. Press SELECT button once. The status Led will switch off.

This option will default the Engineers code back to 1234.

Default Reporting Codes

1. Ensure the control panel is in Engineer mode and lid tamper is open.
2. Press and hold SELECT button until the status LED lights solid orange (about 6 seconds).
3. Press SELECT button once. The status Led will switch off.

This option will default the reporting codes back to their default settings.

Default Control Panel

1. Ensure the control panel is in Engineer mode and lid tamper is open.
2. Press and hold SELECT button until the status LED lights solid red (about 8 seconds).
3. Press SELECT button once. The status Led will switch off.

This option will default the control panel back to factory settings.

6. 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 30.

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

34 Orisec VP
This zone type must only be used for Orisec W-VP devices. (Vehicle Protector). Once a W-VP has been learnt to the system (via 'Setup Wireless Zones') the zone type will automatically be programmed as 'Orisec VP' and 'Chime 4' enabled. Additionally, zone text can then be added (Pauls Audi etc) and different areas selected if required.

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.

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.

14 10K/10K
For use with other manufacturer detection devices where Double EOL is wired with 10K/10K resistors.

15 4K7/2K2
For use with other manufacturers detection devices where Double EOL is wired with 10K/10K resistors.

Zone Areas
The W-CP-40 has 4 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.

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 32.

☐ The Zone functions as normal.

5 Auto Rearm

☑ 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.

☐ 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 Zones activity is recording the activations per day and the total activations. The activity data can be viewed using the UDL in REAL TIME or via the panel's keypad in 'Tests & Diagnostics > View Zone Status'

☐ The zone activity is not recorded.

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

☑ Zone status changes are sent to the comport requesting the information, commonly used with integration such as Control 4 or Crestron.

☐ Zone state changes will not be printed.

13 Internals Only

☑ When the zone is activated, only internal sounders and speakers will be triggered.

☐ The zone will function as per the description of the zone type.

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 32). 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.

Chime tones can be tested on the keypad by pressing the ENTER key on the highlighted chime.

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 Door Bell 1

The Zone generates a traditional door bell tone once.

6 Door Bell 2

The Zone generates a traditional door bell tone twice.

7 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. Soak Test will be automatically removed after 14 days if no activations have occurred. This duration can be adjusted using System Options (07) Soak Test Timer.

0 No

The zone is not on soak test.

1 Yes

The zone is on soak test.

Zone Camera

Reserved for future use.

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 28.

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"

30. This option will play a 'Doorbell Sound

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 41.

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 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 Keypad Timeout
This timer controls the duration a user is allowed access to their menus before being sent back to day mode operation.

31 Fog Shoot Time
Only for use with Density Fog machines when integrated via a comport or W-Density. This timer controls the shoot time for the chosen Density fog machine. Depending on the Density Fog machine this will denote the maximum shoot time. It is recommended to only program up-to the maximum shoot time and not over the maximum shoot time for the chosen machine.

Machines and timings are listed:

- Density Basic – Max shoot time = 55 seconds
- Density UNIK – Max Shoot time = 60 seconds

- Density 600 – Max Shoot time = 28 Seconds
- Density 900 – Max Shoot time = 29 Seconds
- Density 2400 – Max Shoot time = 80 Seconds
- Density 6000 – Max Shoot time = 80 Seconds
- Density 14000 – Max Shoot time = 200 Seconds

32 Fog Eng Test Time

Only for use with Density Fog machines when integrated via a comport or W-Density. If set higher than 000 (Default), the Density Fog Machine will only trigger a 4 second Shoot (2 seconds on Density UNIK) as opposed to the time programmed above (Timer 31 – Fog Shoot Time) following the condition of the programmed chain becoming active AFTER the engineer has logged out.

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 – (0-255)

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 – (0-255)

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 – (0-255)

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 – (0-255)

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.

The following options are affected after enabling EN50131

- Log Max 3 Messages - Now enabled.
- EXP Lost = Zone Tamper - Now enabled.
- Confirmed Engineers Reset - Now enabled.
- Tamper Engineers Reset - Now enabled.
- Faults Engineers Reset - Now disabled.
- Disarm Tamper = No Bell - Now enabled.
- Arm with NO AC - Now disabled.
- Arm with NO ATS - Now disabled.
- User can omit tampers - Now disabled.
- Keypad Blanking - Now enabled.
- Soak Test arm indication - Now enabled.
- Show Disarmed Message - Now enabled.
- Disable Armed OMIT – Now enabled.
- Power up = Clear Zones - Now enabled.
- User cannot arm with a low battery on a wireless device – Now enabled (Not a selectable option in panel)

2 Enable EN50131 Grade 3

☑ EN50131 Grade 3 options are enabled.

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

The following options are affected after enabling EN50131 Grade 3:

- 5&6 Digit codes only – Now enabled.
- Enables EN50131 - Now enabled.
- Enables PD6662:2010 - Now enabled.
- Lockout Keypad – Now enabled.
- Faults Engineers Reset - Now enabled.

3 Enable BS8243

☑ BS8243 options are enabled.

☐ BS8243 options are disabled. (Default setting.)

The following options are affected after enabling BS8243:

- Disarm only with Tag - Now enabled.
- BS Keyfob Entry - Now enabled.
- BS Keyfob Exit - Now enabled.
- BS Entry Stray logic - Now enabled.

4 Enable PD6662:2017

☑ PD6662:2017 options are enabled. (Default setting.)

☐ PD6662:2017 options are disabled.

The following options are affected after enabling PD6662:2017:

- Enable remote arming - Now enabled.
- NO UDL if armed - Now enabled

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 30) 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 external sounders DLUX illumination will flash on and off in time with the external sounders strobe. Only available in network mode.

☐ The external sounders DLUX illumination will not flash.

13 Manual Bell Light

☑ This option disables the light sensor on the external sounder. The external sounders DLUX illumination is then controlled via a Chain, please see 'Chain Control O/P – Bell Backlight' – for additional information. Only available in network mode.

☐ The DLUX illumination will turn on once the light sensor starts to see dim light conditions e.g. Sunset.

14 Flasher Mode

☑ The alternating LEDs on the external sounder will flash at the same rate as the Orisec dummy Flasher Module. (Only available in 'network mode')

☐ 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 engineers code will need to be unlocked for use every hour. The unlock code is generated from the Orisec software 'Easy Reset' downloadable from the installer portal: www.orisec.co.uk/installer

☐ 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
- Orange = System Part Armed
- Red = System Armed.

It is recommended to disable 'Keypad Blanking' if 'Keypad LED' is disabled.

Speaker Sounds

Controls which tones the on-board speaker can generate.

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 all system tones.

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 Hardware

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 on the CM2-PSTN communicator is monitored for line voltage.

If a CM2-PSTN communicator is not fitted, the line will not be monitored.

☐ 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 external sounders tamper return terminal on the control panel is monitored. (0v is healthy/ clear).

If an Orisec external sounder is being utilised in 'Network mode', 'Bell Tamper' will need to be disabled.

If an Orisec Wireless external sounder is being utilised as the main external sounder for the system 'Bell Tamper' will need to be disabled.

☐ The bell tamper input is not monitored.

05 Onboard PA

☑ If enabled, the two onboard PA buttons (to the right of the directional keys) will generate a full panic alarm condition if pressed together for 1 second. (W-CP-40K only)

☐ The onboard PA buttons will not function. (W-CP-40-K only).

06 Aux Fuse

☑ The Auxiliary PTC Fuse is constantly monitored, if the current is higher than 600ma for a short period of time the fuse will 'blow' and the event is logged and indicated.

☐ The Auxiliary PTC 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

☑ Orisec external sounders connected in 'Network' mode will be monitored for tampers (Lid and Screw).

If an Orisec external sounder is not connected to the control panel, this option will not create any tamper faults regardless of being enabled.

☐ Orisec external sounders connected in 'Network' mode will not be monitored for tampers (Lid and Screw).

10 Network Bell Faults

☑ Orisec external sounders connected in 'Network' mode will be monitored for Grade 3 fault conditions, the fault conditions are listed:

- Low Battery (Battery Voltage below 5.2v DC)
- Low input supply (Input supply below 10.4v DC)
- Piezo sounder presence
- High resistance on cable (more than 2k)

If an Orisec external sounder is not connected to the control panel, this option will not create any faults regardless of being enabled.

☐ Orisec external sounders connected in 'Network' mode will not be monitored for faults.

11 Report Single Path Fault

☑ 'Single path faults' for dual path communicators will be monitored. This option should be enabled if the installation requires DP2/DP2+/DP3 or DP4 levels of communication.

This can be used with any Orisec CM2 module, CSL Dual Com Pro, WebWayOne unit or Redcare Essential.

The single path failure will generate an ATP fault (in some instances depending on the reason for failure also an STP fault – e.g. LAN cable removed) the response time of the ATP fault is set in accordance with the communication standard in use (DP2/DP2+/DP3 or DP4) this is set in 'ARC Setup'.

An ATP fault will only log and communicate, no message or fault will be displayed to an end user locally.

☐ Single path failures are not monitored.

12 Monitor ATS Path Fault

☑ ATS Path faults will be monitored on the control panel. If enabled, once all communication paths are disrupted an 'ATS PATH Fault' message will be displayed on the keypad and recorded in the event log. The time from ATS Path fault occurring and being recorded is defined by the timer 'ATS Path Fault' in System Options > Timers.

☐ ATS Path faults are not monitored.

13 Aux/Bell EOL faults

☑ If enabled, the 'Bell Tamper' terminals are monitored via a 1k1 resistor and will generate a fault upon removal or if the resistance is greater than 4k7.

☐ The 'Bell Tamper' terminals are not monitored for faults.

14 Density Fog Log Only

Only for use with Density Fog machines when integrated via comport or W-Density

☑ If enabled, any Density fog machine issues will be logged to the control panels event log and provide no local indication on the keypad of the fault/s.

☐ Density fog issues will record in the panels event, and display on the keypad. The message will generate a local alert but will not halt arming of the control panel.

15 UNIK Charge Status

☑ If enabled, Density UNIK units will monitor for a 12v charger - if this is lower than 10.4v DC or removed the control panel will register a fault to indicate the charge fault.

☐ If there is an issue with the Density UNIK's charge, there will be no indication. It is recommended to enable this option when using a Density UNIK.

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 46.

ES Backlight

This option sets the illumination level for an Orisec external sounder wired in network mode. A 'DLUX' light panel will need to be fitted to the Orisec external sounder to illuminate. The level can be tailored between 1200 – 0.

1200 is the default and the brightest setting.

This is only for use with Orisec external sounders wired to the control panels network. Conventional wired Orisec external sounders illumination levels can be adjusted locally on the external sounder. Please see the external sounders installation manual for details.

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)

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

Default (2 hours)

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

Radio Options

The following options control operation of the Orisec wireless devices.

Sleep in unset

- ■ When enabled, wireless PIR's ONLY (internal and external) will 'Sleep' in the unset state and will not react to any activations (Tamper conditions will still operate as normal). Once the control panel is armed AND the device has polled back the device will then be fully operational.

Depending on the programmed poll time and when the device last polled in, there could be a time frame from after the system is armed that some detectors are not operational for xxx amount of time. It is recommended to ensure shock sensors are installed to aid with system design if this option is to be used.

- ☐ 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

- ■ Enables the use of Wireless Fire/ Flood detectors from Cavius.

An Orisec wireless PIR or W-SD (Large shock sensor) will need to be installed to utilise Cavius Wireless Fire/ Flood detectors.

- ☐ Wireless Fire/Flood devices from Cavius cannot be used.

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

Sync Bells

- ■ For use when multiple Wireless sounders (Internal/ External) are installed on a single system, enabling this option will speed up response times.
- ☐ Wireless sounders (Internal/ External) will react as normal.

Chain Control O/P

The following options allows for Orisec devices to be further customised using 'Chains'. Please refer to page 73 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.

This option can only be used with an Orisec external sounder installed in 'Network' mode.

Bell comfort LEDs
This option will enable the external sounders 'Comfort LED's' to follow a Chain as opposed to pulsing day and night. In certain instances, this can be used to indicate system set/ unset status – zones active etc.

This option can only be used with an Orisec external sounder installed in 'Network' mode.

Wireless LED enable
This option will control the LED's for all wireless detection devices. At default the LEDs on wireless detection devices are only operate if an engineer is on site and logged into their menus. The ability to control the LED's with a chain can allow for custom scenarios where LED's might be required.

Enabling LED's on detection devices will lower battery life expectancy.

Wireless Sleep
This option will make wireless PIRs (Internal and External) enter a 'sleep' state whilst the custom chain is active. The detectors will not react to any activations (Tamper conditions will still operate as normal). Once chain is no longer active AND the device has polled back the device will then be fully operational.

Depending on the programmed poll time and when the device last polled in, there could be a time frame from after the chain is no longer active that some detectors are not operational for xxx amount of time. It is recommended to ensure shock sensors are installed to aid with system design if this chain is to be used.

Bell
This option will alter when the external sounder triggers. At default this will follow standard alarm events. When a chain is assigned the external sounder can trigger in any required instance e.g once the system is disarmed and the Garage door is active for longer than 30 seconds etc.

This option can only be used with an Orisec external sounder installed in 'Network' mode.

Strobe
This option will alter when the external sounders strobe will trigger. At default this will follow standard alarm events. When a chain is assigned the external sounder can active the strobe in any required instance e.g when an external detector is activated etc.

This option can only be used with an Orisec external sounder installed in 'Network' mode.

Flasher Mode
This option will alter how the external sounders comfort LEDs will operate. At default the external sounders comfort LEDs will be a 'gentle' flash left and right – once an assigned chain is active the flash rate will alter to match that of an Orisec wireless external sounder or Orisec Dummy flasher module.

This option can only be used with an Orisec external sounder installed in 'Network' mode.

Ext Prox RED LED
If an Orisec external Prox unit (PRX-EXT) is added to a W-ROX-1 or W-ROX-10 then the RED LED can be programmed to follow a chain.

Ext Prox GREEN LED
If an Orisec external Prox unit (PRX-EXT) is added to a W-ROX-1 or W-ROX-10 then the GREEN LED can be programmed to follow a chain.

Density Fog Arming
Only for use with Density Fog machines when integrated via a comport or W-Density

This option allows a custom chain to control when the Density fog is ARMED. Most common scenario is; Area Armed OR PA Alarm.

Density Fog Alarm
Only for use with Density Fog machines when integrated via a comport or W-Density

This option allows a custom chain to control when the Density fog is triggered (Shoot). Most common scenario is; Alarm OR PA Alarm.

Density Fog 2nd Alarm
Only for use with Density Fog machines when integrated via a comport or W-Density

This option allows for a secondary Chain to be programmed to trigger the Density unit with a different timer under different conditions. The secondary timer is HALF of the 'Fog Shoot Time' (Programming Menu > System Options > Timers)

Density PIR/PA
Only for use with Density Fog machines when integrated via a W-Density.

The PIR/ PA input (Terminal 9) on the Density UNIK unit can be triggered via a programmed chain using the W-Density PCB. - please note W6 needs to be enabled on the Density UNIK unit.

Device Areas

This section allows different system devices to be assigned a unique area depending on the installation requirements. A device may be assigned to more than one area if required. Removing all areas from a device will halt the device from operating.

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.

Panel Tamper
This option selects which areas the panels lid tamper is associated with.

Panel Speaker
This option selects which areas the panels speaker plug 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

☑ Exit tones will only be generated from the keypad being used to arm the system, regardless of how many keypads are installed and associated to that 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 always monitored

☐ Anti-masking faults are monitored only when the selected area is unset.

05 Exit when Ready

☑ The area will only start the arming procedure once all zones are healthy/ secure. Zones can be independently ignored from this setting with the 'Omit from Ready' option. (Zone Programming > Omit)

☐ 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.

14 Constant Exit Tone

☑ If enabled, the exit tone is a constant tone as opposed to a broken tone.

☐ The exit tone is the Orisec standard 'broken' tone.

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 ATS path fault present.

☐ 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 armed remotely via the ControlPlus2 application, UDL, SMS commands, Touch Tone phone control and 3rd party integration.

☐ The area can only be armed locally.

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 fully armed the external sounder will trigger for 2 seconds. When the area is disarmed the external sounder will trigger for 1 second.

☐ 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 sounder will trigger for 2 seconds. When the area is disarmed the external sounder will trigger for 1 second.

☐ 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.

13 Disarm Fire No Coms/Bell

☑ If enabled, with the area unset activation of a zone programmed as 'Fire' will not trigger the external sounder or signal via the communication module.

☐ Activation of a zone programmed as 'Fire' will trigger the external sounder and signal via the communication module.

14 Delay Speaker with Bell

☑ If a 'Bell delay' is programmed (Programming Menu > Area Timers > Bell Delay) all speakers connected to the system will mimic this delay, and only operate after the programmed duration has expired. This option only affects alarm conditions.

☐ Connected speakers will operate as normal.

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 automatically armed/ disarmed with a control timer. A pre-setting indication consisting of 30 seconds of rapid beeps will be heard followed by the usual exit tones if all circuits are healthy for 30 seconds.

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.

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 full Part Set 2.

□ The area's exit tone remains audible during full Part Set 2.

Part 3

■ The area's exit tone remains silent during full Part Set 3.

□ The area's exit tone remains audible during full Part Set 3.

Part Set Entry

■ If the system is Part Set (1,2 or 3) the entry tone is a 'Click' tone as opposed to the standard Orisec entry tone.

□ Entry tones are the same for Full set and Part set.

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 to replace the standard app text banner on notifications 'CWA00001234GB000' with any programmed text e.g. 'The Ice Cream Factory'

9 Panel Location text

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

10 Company ID

A company ID is assigned to each company via Orisec technical support or the installation companies designated sales manager from Orisec. This is then programmed into this text box e.g. ABC001. After the app will alter its 'Skin' to display the installers.

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 1' with the text entered here.

3 Part Arm 3 Text

Replaces the text 'Part Arm 1' 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 20-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 W-CP-40 has 40 programmable users.

User 00 is the "Engineer" at default which has a default code of 1234.

User 01 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/VP

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

If a W-VP (Wireless Vehicle Protector) is assigned to zone number that matches the user number, then this user type can only be used to arm and disarm that W-VP. No menus or options are available.

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 or tag is presented the assigned areas will begin arming/ disarm without displaying any menus.
- ☐ 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.

9 Keyfob PA Confirmed

☑ If enabled, a PA activation from a wireless Keyfob will trigger a 'PA confirmed' response as opposed to a standard 'PA alarm'. This option should ideally only be used with 'W-KFI-PA-CONFIRMED' keyfobs.

☐ Keyfob PA events are reported as a standard 'PA Alarm'

10 Disarm ALL areas

☑ If enabled, the selected user will automatically disarm all areas assigned to them during the entry procedure

☐ The selected user will only disarm the area requiring attention during the entry procedure.

11 Keyfob PA Silent

☑ If enabled, PA activations from a wireless Keyfob are silent.

☐ PA activations from a wireless Keyfob are audible.

12 Auto Arm Vehicle

☑ A W-VP (Vehicle Protector) must be assigned to the system and on a matching zone number (i.e. Zone 25 and User 25). With this option enabled, once the 'Vehicle Control' button has been pressed on the W-VP to arm the device, 3 minutes later the control panel will arm the W-VP. After this 3 minute period, activations from the W-VP will create a 60 second full alarm condition.

☐ The W-VP can be manually armed/ disarmed at the control panel, via a wireless Keyfob or via the ControlPlus2 Application.

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 (N)) 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 73 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)
- English (Export)
- Spanish
- Italian
- Dutch
- French
- Greek

Button 1/2/3/4 – Wireless Keyfob

Depending on the wireless Keyfob in use there will be between 2-4 programmable buttons available. Each button can be programmed for any of the following operations:

- Full Arm
  - The control panel will full arm, based on the users area.
- Part Arm 1
  - The control panel will 'Part Arm 1', based on the users area.
- Part Arm 2
  - The control panel will 'Part Arm 2', based on the users area.
- Part Arm 3
  - The control panel will 'Part Arm 3', based on the users area.
- Disarm
  - The control panel will be disarmed, based on the users area.
- Rem Control 1

- Any outputs programmed as 'Rem Control 1' will be triggered. Rem Controls can be useful for simple automation such as garage doors.

- Rem Control 2
  - Any outputs programmed as 'Rem Control 2' will be triggered.
- Rem Control 3
  - Any outputs programmed as 'Rem Control 3' will be triggered.
- Rem Control 4
  - Any outputs programmed as 'Rem Control 4' will be triggered.
- Rem Control 5
  - Any outputs programmed as 'Rem Control 5' will be triggered.
- Arm Area X (Where X denotes the last area on the system)
  - The control panel will fully arm the last area on the system.
- Disarm Area X (Where X denotes the last area on the system)
  - The control panel will Disarm the last area on the system.
- Arm VP
  - The W-VP will arm instantly. A W-VP must be assigned to the system and on a matching zone number (i.e. Zone 25 and User 25).
- Disarm VP
  - The W-VP will be disarmed. A W-VP must be assigned to the system and on a matching zone number (i.e. Zone 25 and User 25).
- Arm/ Disarm VP
  - The W-VP will be fully armed or disarmed depending on the last known state. A W-VP must be assigned to the system and on a matching zone number (i.e. Zone 25 and User 25).

Panel Outputs 06

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

On the W-CP-40 there are a maximum of 44 outputs available, this is achieved via expanders (total of 30 outputs), keypads (total of 9 outputs) and the control panel (5).

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 armed.

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
Reserved for future use

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 if a Coms Module 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.

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
Reserved for future use

96 Alarm Sounding
If selected, this output will trigger when the area is in alarm condition and will restore once a valid code, tag, key-switch or keyfob has been presented/ used to unset the alarm.

97 Control Timer Exit
If selected, this output will trigger for the duration of the control timer exit period.

98 Density Fog Fault
If selected, when a Density fog machine is integrated with the Orisec

control panel a fault from the fog Machine (Mains, Battery, Fluid, Shoot, Coms or Battery) will trigger this output type.

99 Zone Fault Present
If selected, once a zone configured for grade 3 wiring enters the 'fault' resistance this output will trigger. The output will restore once the zone has changed state.

100 Radio Jammed
If selected, the output will trigger if the Orisec wireless network is 'jammed'. Both frequencies 868.65MhZ & 869.12Mhz will need to be 'jammed' prior to the output triggering.

101 Vehicle Armed
If selected, when any W-VP (Vehicle protector) is in the armed state on the control panel this output will trigger.

102 Vehicle Alarmed
If selected, if a W-VP (Vehicle Protector) is in a full arm condition this output will trigger.

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 and expander outputs.

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.

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.

Keypad Attributes

This set of options controls how the selected keyed 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.

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.

On the W-CP-40K, there are two dedicated PA buttons which can be used to generate an ACPO compliant PA alarm, see page 36. For ACPO compliant systems "4 & 6 = PA" should be disabled.

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 fire, PA and medical activations. When the relevant options are enabled the user must press the appropriate screen icon, this will then cause a new screen to be displayed in order for them to confirm the alarm.

4 Quick Full Arm

☑ The area/s assigned to the keypad can be fully armed by pressing the 'Arm' key without the requirement of a user code/ tag. Once pressed the programmed exit mode will begin.

☐ The user will need to present their code and/or tag at the selected keypad to initialise the setting procedure.

5 Quick Part Arm

☑ The area/s assigned to the keypad can be part armed by pressing the 'Part' key without the requirement of a user code and/or tag. Once pressed the programmed exit mode will begin.

Different part sets can be selected by pressing the part set number first, e.g. 2 then Part will start the exit procedure for part set 2.

☐ The user will need to present their code and/or tag at the selected keypad to initialise the setting procedure.

6 Quick Omit

☑ The 'Omit Zones' menu can be accessed without the need of a user code and/or tag by pressing the OMIT key.

☐ The user will need to present their code and/or tag at the keypad to access the 'Omit Zones' menu.

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. This menu is used for 'Remote control' outputs. Remote control outputs are software-based triggers that can be actioned via the ControlPlus2 Application, Wireless Keyfobs, UDL (PC Software) and this menu 'Control Outputs'.

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

2 Vehicle Control

☑ Any programmed W-VP's (Vehicle Protector) will be displayed in this menu. Any programmed W-VP's can then be armed or disarmed without the need of a valid user.

☐ The 'Vehicle Control' 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. This menu allows the user of the system to program an alarm clock. The alarm clock can be programmed for the start time and which days to operate on.

The days are selected by pressing the corresponding number e.g. Monday = 1 Tuesday = 2 etc.

Once the alarm criteria is meet, the keypad and internal speakers will start chiming. To disable the alarm chime tone simply press any key on the keypad.

☐ 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. This menu allows the user of the system to simply enable/disable chime for any programmed areas on the system. To enable/ disable the chime press the Omit key.

☐ 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. This menu allows the user to playback any stored answer phone messages, and delete if required. This feature requires a PSTN phone line and 'Rings before Answer' to be set to a value higher than 0 (default).

☐ 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. This menu allows the user of the system to send an SMS message via the GSM module or PSTN module (both optional communicators). Simply add the recipient's mobile number (Including country code i.e. +447718781705), add a message (Maximum 250 characters) and press ✓ to send the message.

☐ 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. This menu allows the user of the system to add a custom message to the keypad screen. This does not replace the banner message programmed by the installation company, it is in addition. To clear the message a user code must be entered and 'Reset Alarms' selected.

☐ 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. This menu allows the user of the system to add a countdown timer, this can be used for any application i.e. cooking. This menu allows the user to set the following values:

▶ Hours

- Minutes
- Seconds

Once the timer has expired the keypad and internal speakers will start chiming. To disable the alarm chime tone simply press any key on the keypad.

☐ 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 48.

Location

Location text can be added to this menu to aid in locating the device. A maximum of 24 characters can be assigned. This information is only displayed in this menu.

*RK-500/RK-550/TK-650/MK-700/RK-720/RK-850/RK-920/RK-1050/TK-1250 keypads only

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.

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 48.

Control Timers 11

The W-CP-40 has 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 W-CP-40 has 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 W-CP-40 has one RS-232 communication port that can be configured for any of the following modes of operation:

0 W-RKP/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.

Alternatively, a W-RK-720 can be plugged onto the comport via a LEAD-RKP full programming and system control.

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 CID Serial

This mode configures the comport to allow Orisec's CID protocol to operate via a TTL connection lead.

Select this Comport type for *Crestron* home automation.

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 selected communication port for TPA Radio for use with TPA radio receiver modules.

7 Control 4

This mode configures the selected communication port for Control 4 home automation.

8 Density Fog/UNIK

This mode configures the selected communication port for use with Density fog machines.

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 singular or dual GSM module is fitted the APN details and any other required configuration for the SIM card must be programmed.

0 APN 1

For use with GSM slot 1 (displayed on the CM2 module).

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).

Operator	APN Name	User	Password
CSL Sim1	Geminit2.m2m	*	*
CSL Sim2	Iot.cslm2m.com	*	*
CSL Sim3	geminivf.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
Vodacom	internet	*	*
Tele2 M2M	m2m.tele2.com	*	*
Three	Three.co.uk	*	*

* = leave blank

1 User/APN 2

This menu is utilised for assigning a username (Defined by the sim card provider) OR for assigning a second APN.

Dual GSM is commonly used for ARC communications with CSL SIM cards. As define in the below table CSL sim cards do not require a username.

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.

Ethernet settings

When an IP (Ethernet) Module is fitted if the network allows for P2P connections no information is required for access to the Orisec cloud. If the network is secured, then the following information 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".

Adding a hyphen (-) at the start of the IP address will disable the IP monitoring and operation from the CM2 module.

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, if the network supports DHCP connections and is not a restricted network, simply adding the correct SSID and Password will allow full access to the Orisec cloud. If the network is managed or secured, then the following information 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.)

Adding a hyphen (-) at the start of the SSID will disable the Wi-Fi monitoring and operation from the CM2 module.

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 for the speech dialler. The control panel can send voice messages when the system is fitted with a CM2-PSTN Module or CM2-GSM module.

The speech dialler can be used to call landlines or mobile phones to play a pre-recorded voice message when triggered. There are six 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 [#] 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 which can be downloaded from the installer portal (www.orisec.co.uk/installer) a micro USB cable and windows based PC is required.

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.

Call Order
Call order is required to set the order in which the calls are to be placed. If both numbers have been programmed and the call order is programmed as '12' this will call number 1 first, if number 1 does not respond and acknowledge the call will then go to number 2 and will stop calling beyond this point as no other numbers are in the loop.

The call order can be programmed with multiple attempts such as 1121 - of which the call order would be (assuming no acknowledgment was sent, #).

- Number 1
- Number 1
- Number 2
- Number 1

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 48.

Voice messages 16

Reserved for future use

Trigger by Chain

Select the required 'Chain' to operate a pre-recorded voice message / repeating Chime Tone which will then be played from a 16ohm speaker connected to the main control panel or keypad which supports voice.

Voice message options
The voice message options allows control for how the message/ Chime tone is played.

1 Keep Repeating
- ◉ The selected voice message/ Chime tone repeats continuously until the associated 'Chain' is no longer active.
- ☐ The selected voice message/ Chime tone plays once.

2 Repeat every 10 Seconds
- ◉ The selected voice message/ Chime tone repeats every 10 seconds until the associated 'Chain' is no longer active.
- ☐ The selected voice message/ Chime tone plays once.

3 Repeat every 30 Seconds
- ◉ The selected voice message/ Chime tone repeats every 30 seconds until the associated 'Chain' is no longer active.
- ☐ The selected voice message/ Chime tone plays once.

4 Repeat every 60 Seconds
- ◉ The selected voice message/ Chime tone repeats every minute until the associated 'Chain' is no longer active.
- ☐ The selected voice message/ Chime tone plays once.

5 Repeat every 5 Minutes
- ◉ The selected voice message/ Chime tone repeats every 5 minutes until the associated 'Chain' is no longer active.
- ☐ The selected voice message/ Chime tone plays once.

6 Repeat every 15 Minutes
- ◉ The selected voice message/ Chime tone repeats every 15 minutes until the associated 'Chain' is no longer active.

☐ The selected voice message/ Chime tone plays once.

7 Repeat every 30 Minutes

☑ The selected voice message/ Chime tone repeats every 30 minutes until the associated 'Chain' is no longer active.

☐ The selected voice message/ Chime tone plays once.

8 Repeat every 60 Minutes

☑ The selected voice message/ Chime tone repeats every 60 minutes until the associated 'Chain' is no longer active.

☐ The selected voice message/ Chime tone plays once.

NOTE: 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/ call recipient.

PSTN ONLY - 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 – Wi-Fi/GSM) add the required DP number after the ARC unique identifier e.g.

12345DP2

This will now follow the correct polling times, ATP fault times, STP Fault times and ATS faults times as advised in BS EN 50136-1 for this standard.

The following DP codes can be used:

- DP2 (Primary path polling = 30 Mins/ Secondary path polling = 25 Hours)
- DP2+ (Primary path polling = 10 Mins/ Secondary path polling = 25 Hours)
- DP3 (Primary path polling = 3 Mins/ Secondary path polling = 25 Hours)
- DP4 (Primary path polling = 90 Secs/ Secondary path polling = 5 Hours)

If signals are required to use a custom DNS address when signalling via an Orisec communication module then simply enter the required DNS address for signalling, i.e. DNS 192.168.12.100.

This can be combined with TCP communications and would be entered as shown below:
TDNS 192.168.12.100

The control panel will attempt to signal via the DNS obtained from the router, if the name cannot be resolved it will attempt to use Googles DNS (8.8.8.8) if no custom DNS is assigned.

If signalling via SIA IP direct to an ARC, Dial Sequence 9 must be programming. In 'Telephone number' the required signalling grade must be selected along with the primary path e.g. DP4LAN or DP2GSM.

If the Orisec cloud is not required, then the words 'DISABLE CLOUD' most be programmed into the 'Number' field of ANY ARC. This will disable the use of the Orisec Cloud. This can be used in applications such Banks, Government buildings and Private Schools.

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 menu 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 / GSM (Voice)

2 = WebWayOne / CSL DualCom Pro (Via TTL)

3 = CSL Dual Com (Obsolete hardware) / Emizon (obsolete hardware) / Redcare (obsolete hardware)

4 = Reserved for future use

5 = CSL Connected (Utilising an Orisec CM2 Module) / SMS messaging (CM2-GSM)

6 = Redcare Essential

7 = OSCAR or Orisec Alarm Monitor.

OSCAR is means of receiving raw data that can be transmitted to a supported ARC.

Alarm Monitor is an ARC package that provides a 'front end' solution for installers and end users.

8 = CSL DualCom Pro (Via TTL)

9 = SIA IP (DC-09)

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.

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.

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 48.

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.

Test call & Pre-dial 19

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 20

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 No UDL if Armed

☑ Remote UDL access is disabled when the system is armed.

☐ Remote UDL access is always enabled.

3 No UDL Keypad

☑ Remote UDL online keypad operation is disabled.

☐ Remote UDL online keypad operation is enabled.

4 No CM2 App 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.co.uk/)

☐ 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.

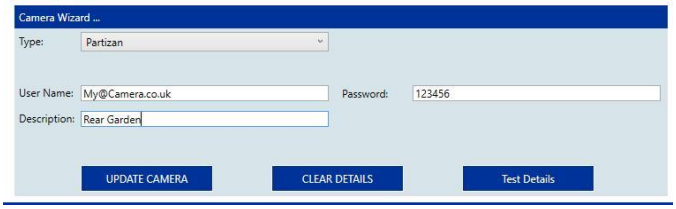
Answer Machine Message

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

NOTE: To program cameras to the system 'Orisec UDL' is required.

The system supports up-to ten IP cameras. Orisec recommends utilising Partizan branded cameras however other brands can be utilised via the cameras RTSP stream feed. Once the information has been added the cameras can be viewed via the Control Plus application.



For additional information please refer to the 'Camera setup installation manual', downloadable from the installer website: www.orisec.co.uk/installer

Chain Setup 21

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 it to turn off after the defined time frame.

To change the time frame from Seconds to Minutes simply press the 'OMIT' key.

Chain Areas

Each chain can be assigned a single or multiple areas to allow for custom setup and control.

Chain Options

This set of options allows for further automation for the programmed chain.

1. Invert

■ The overall chains operation is inverted

☐ The chain operates as programmed.

2. Timer Reload

■ If a link within the programmed chain activates, the programmed chains time is then 'reloaded' and starts again.

☐ The chain operates as programmed.

3. Arm Areas

■ When the chain is active, the assigned area/s will arm.

☐ The chain will not control the arming of the area/s.

4. Disarm Areas

■ When the chain is active, the assigned area/s will disarm.

☐ The chain will control the disarming of the area/s.

5. Delay 1

■ The Chain's active state is delayed (following the 'Delay 1' timer in 'System Options > Timers') if the state of the chain secures before the end of the Delay 1 time, the chain remains secure.

☐ The chain operates as programmed.

6. Delay 2

■ The Chain's active state is delayed (following the 'Delay 2' timer in 'System Options > Timers') if the state of the chain secures before the end of the Delay 2 time, the chain remains secure.

☐ The chain operates as programmed.

7. Require All Areas

■ If enabled, all areas assigned to the chain will be required so that the chain can become active, e.g. If the chain had 3 areas assigned and one of the conditions was ARMED, all 3 areas would require to be armed prior to triggering.

☐ The chain operates as programmed.

Remote Output Setup 22

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.

7. 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.

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.

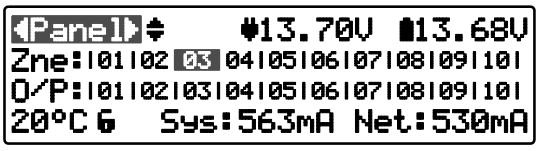
Line 4: The left side shows the last time the zone was activated. The right side shows the status screen mode, use the ◄ and ► keys to change the mode, the following modes are available:

- 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:



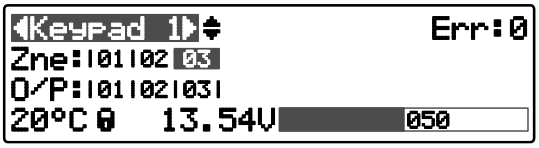
Line 1: Shows the highlighted device, and the associated information. Panel voltage and battery charging voltage.

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.

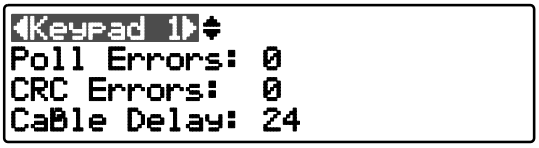
Line 2: Shows the status of the keypad zones. Active zones are highlighted / inverted.

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:

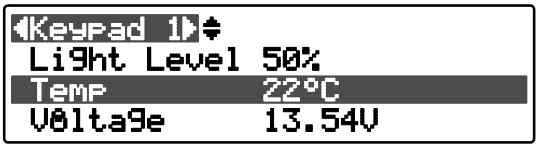


Line 1: Shows the selected device (use the ◄ and ► keys to change device).

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.



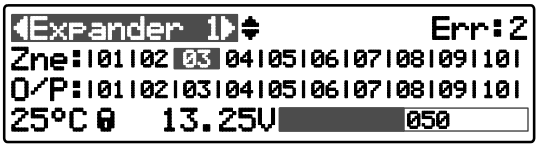
Line 1: Shows the selected device (use the ◄ and ► keys to change device).

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.

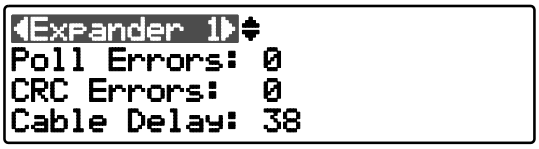
Line 2: Show the status of expander's zones. Active zones are highlighted or inverted.

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:

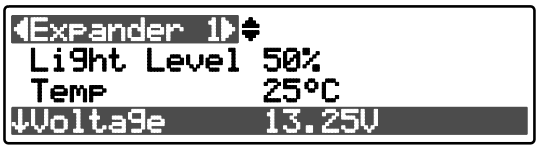


Line 1: Shows the selected device (use the ◄ and ► keys to change device).

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.

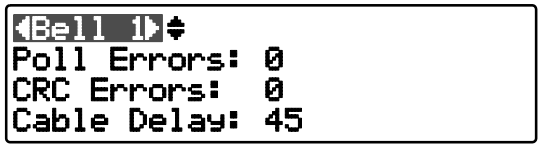
Line 2: Reserved for future use.

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:

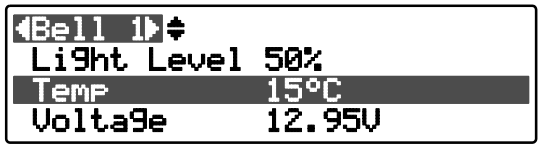


Line 1: Shows the selected device (use the ◀ and ▶ keys to change device).

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

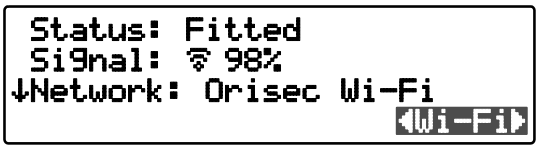
Line 1: Shows whether a module is 'Fitted' or 'Not fitted'.

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.

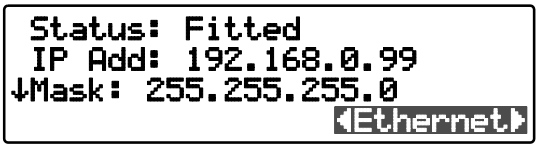
Line 4: Displays the local IP Address of the Wi-Fi module.

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).

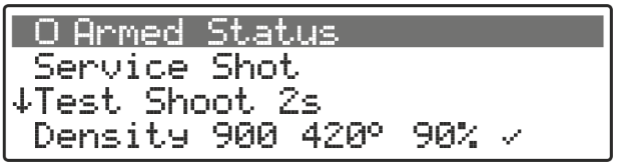
Within this menu select the test event that is to be signalled, then press [Enter✓] to send the selected event.

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
- Zone omit
- Mains Failure
- Mains Restore
- Alarm Restore
- Fire Restore
- PA Restore
- ATP Fault 10 (LAN/ Wifi)
- ATP Fault 15 (GSM 1)
- ATP Fault 32 (GSM 2)
- ATP Restore 10 (LAN/ Wifi)
- ATP Restore 15 (GSM 1)
- ATP Restore 32 (GSM 2)

Test Density Fog

This menu allows for integrated Density fog machines to be fully tested.



Armed Status

If enabled, arms the Density unit so that 'Test Shoot's' can be performed. This option is enabled/ disabled using the [Omit] key on the installed keypad. - Without arming the Density unit, no test shoot commands will be sent.

Service Shot

Triggers a 4 second shoot from the Density unit

Test Shoot 10 Seconds

Triggers a 10 second shoot from the Density unit

Test Shoot 20 Seconds

Triggers a 20 second shoot from the Density unit

At the base of the screen the following information is provided;

- Density machine type
- Current Temperature for Density unit
- Current fluid level for the Density unit
- A ✓ or 🔒 to indicate if the Density unit is ready to be triggered.

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:

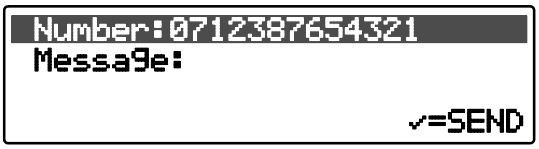
2. Use the ◀ and ▶ keys to select the voice message (1-15). Press [Enter✓] or ✓ to play the message or press [Clear×] or ✖ to clear and record a new message.
3. Press ▼ to select System Message Part:

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:



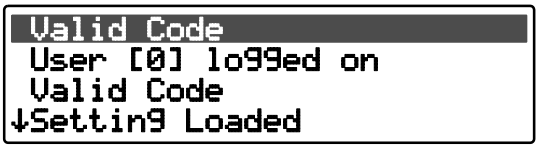
2. Use the number keys to enter a valid mobile telephone number.
3. Press ▼ to select Message:

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

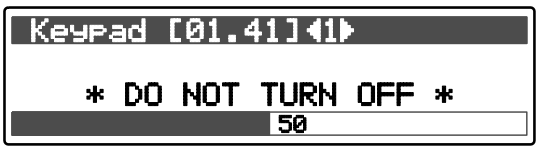
This option will allow the engineer to update the devices connected to the control panel network.

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. Press the [Back←] key to exit the menu.

8. Setup Wireless Zones

This section describes how to setup wireless devices on the Orisec range of control panels.

Orisec wireless devices are learnt to the control panel and not direct to an expander, this provides greater flexibility and removes signal limitations as the devices can signal through multiple expanders, receivers and repeaters.

The W-CP-40 control panel can utilise a total of 40 wireless devices and 40 wireless keyfobs.

Overview

The W-CP-40 has a built-in wireless expander, no additional wireless expanders are required to learn in wireless devices. Additional wireless expanders may be fitted to the W-CP-40 control panel to increase range and signal quality if the installation requires this. Wireless expanders that can be added are listed below:

- W-XP-R (Discreet internal wireless expander)
- W-XP (Traditional wireless expander, Dual antenna)
- W-XPR-EXT (External Wireless expander)

The following Keypads have wireless receivers inbuilt:

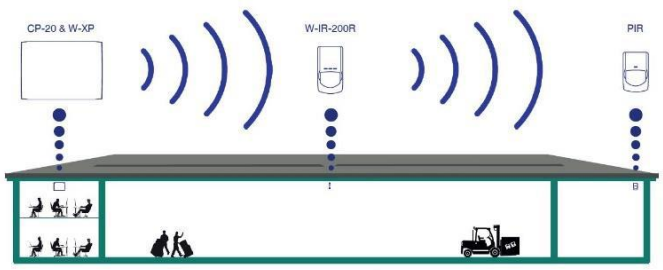
- RK-720
- RK-850
- RK-920
- RK-1050
- TK-1250

The Keypads operate the same as a wireless expander and will support ALL wireless devices (Detection and 'heavy use' items - External sounders, Keypads, Relays).

The following devices can act as a wireless repeater, if 12v powered.

W-INT-CS	W-QD-200R	XD2
W-XP-R	W-ROX-1	XD4
W-XPR-EXT	W-ES-120/220/320/420/520	INT-CS
W-RP-PSU	W-RK-700	ROX-5
W-IR-200R	XD1	ROX-10

A repeater can 'repeat' a signal from a detection device to increase range as detailed below:

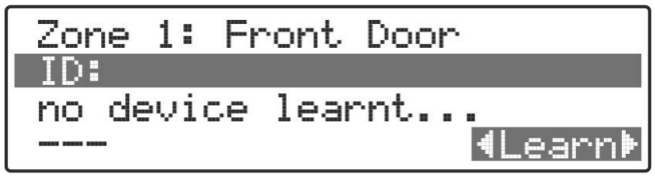


The following devices can be repeated using any of the repeater options mentioned above:

W-IR-100	W-XD1	W-SD-MC-C
W-IR-100-PET	W-XD1-DT	W-MC-C
W-QD-100	W-XD2	W-ACC-C
W-IR-200	W-XD2-DT	W-PA
W-IR-200-PET	W-XD4	W-DT-360
W-QD-200	W-XD4-DT	W-DB
W-DT-300	W-SD	W-KF-PA
W-DT-300-PET	W-SD-MC	W-KFI-2/4/6
W-360-QD	W-SD-C	W-KF-2/4

Learning a wireless device

To learn a wireless device to the control panel, first select the required zone number (This can be ANY zone on the control panel) then navigate DOWN once to the ID field:



Scrolling ◀ and ▶ will alter the learning sequence, detailed on the bottom right of the screen:

- LEARN – The device will be learnt to the system as normal.
- AUTO LEARN – Once the device has been learnt to the system the screen will display the next available zone automatically.
- STATUS – View the status of the wireless zone, no devices will be learnt whilst STATUS is selected.

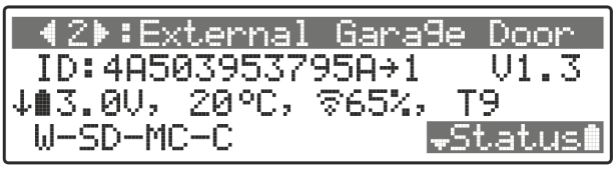
It is recommended to refer to the relevant wireless device's installation manual for full details on how to learn that specific device to the control panel.

The below is an extract from the W-IR-100 installation manual (Section 4):

On the control panel:

- Enter Engineering Mode
- Select 'Setup Wireless Zones'
- Highlight the required zone
- *Scroll down to 'ID' (Learn will be displayed on the bottom right)*
- *Press and hold the 'Learn' button on the device and insert the battery*
- *After 2-3 seconds release the 'Learn' button*
- *Press the 'Learn' button 1-5 times to learn in the device.*

Once the device is correctly learnt to the control panel the following information is visible:



- 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, the expander/ Keypad / Repeater zone number the wireless device is currently associated with and the software version of 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.

Depending on the device that has been learnt to the control panel, the operation for the device can be altered by enabling/ disabling different parts of the hardware – simply highlight one of the selectable options (e.g. Input 1 on a W-SD) then press the Omit key.

- Lines 11 -13: Dependent on the wireless device, information regarding the devices tamper status will be displayed.

9. System Event Logs

This section covers the viewing of events that have been recorded by the control panel.

The control panel will store up-to 1250 events, once the event log has reached its maximum capacity the events will over right from the oldest stored event.

Within this menu the following options can be selected:

- View Event Log All events that has been recorded on the control panel
- View Mandatory Log Only shows events that have been selected as a mandatory event, these events can only be amended in Orisec UDL. (At default this has been tailored to suit the requirements of EN50131-1)
- View Chime Log This menu will display when a zone programmed for chime (1,2,3,4, Door Bell or Door Bell 2) has activated and display the Zone Number, Time and Date. Maximum events that can be stored is 50.
- View Activity Log This menu can be used as a 'Zone Follower' styled menu, the zones active state will constantly log as movement around the property happens.
- Print Log To be used with a RS232 Printer onto a Comport programmed as 'Printer'. This will print the full event log.

View event log

Once in the event log screen to view all recorded events simply scroll to go back in events and to go forward in events.

Navigating to the or will change the FILTER option, the default filter is 'ALL EVENTS' – this can be toggled between:

- All Events
- Priority (Fire/ PA/ Confirmed etc.)
- Alarms (Zone 6 Alarm etc.)
- Tampers (Panel lid Tamper, Zone 6 Tamper etc.)
- Faults (Battery Fault, Signal Lost etc.)
- Open & Close (Area 1 Armed etc.)
- Tests (Test calls etc.)
- Restore (Zone 5 Alarm Restore, Panel Lid Tamper restore)
- Custom – Only applicable if the reporting event has been altered to Custom, at default no events are stored as Custom. This can be altered in 'SIA/ID Codes'

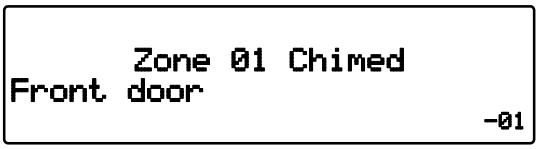
View mandatory log 01

All mandatory events as defined in EN50131-1 are recorded in the mandatory event log.

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 v keys.

View Log Screen Information

Line 1: Not used.

Line 2: The zone number that has chimed.

Line 3: The zone description.

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.

10. 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.

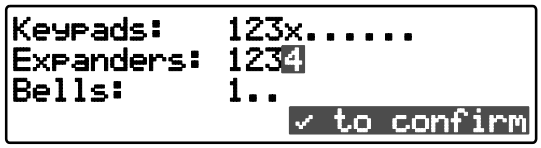
Each output can be assigned a different logic of either OR or AND, to toggle this simply press the OMIT key on the required output.

To Delete an output assigned to the Chain, highlight the required output and press Clear× or ✖.

11. 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.

Numbers 1 to 10(0) 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.

12. 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.

It is highly recommended to program SIA/ ID Codes via The Orisec UDL, PC application, due to the complexity of programming through a keypad.

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

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 ▣ key to change the 'Report Group' for the selected event type.

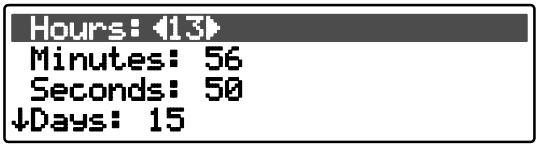
6. Press the Omit key to toggle between 'New Event' and 'Restore Event' for the selected event type.

7. Press the Back← key to exit the menu.

13. 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.

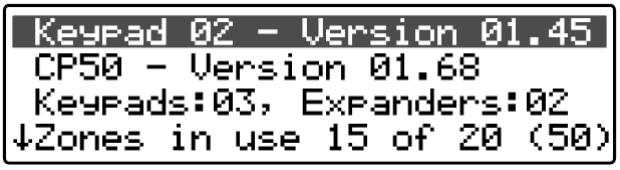
3. Press the Back← or ← key to exit the menu.

14. User Menu

Please refer to master user guide for full details.

15. About

This menu displays information regards the system, such as connected devices, serial number, UID, Wi-Fi information, GSM information and more.



The following information is visible (some items may not be visible depending on what is connected to the system).

- Control panel type and Software Version e.g. W-CP-40 Version 4.20
- Serial Number for the control Panel – this is used for remote connections via ControlPlus2, Remote Maintenance and Orisec UDL e.g. S/N: CPF01234567GB000 The serial number is always 16 characters in length.
- Installed keypads and Expanders e.g. Keypads:1, Expanders:1
- The number of programmed zones
- The number of programmed users
- PSTN Module status
- CM2 Version and associated information
- CSL Dual Com Pro information
- Density Fog information
- Unique Identifier, used for Remote Maintenance.

16. 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.

17. Specifications & Standards

Electrical

Supply Voltage:	95 – 265Vac @50/60Hz
Power Supply Type:	A
Rated PSU Output:	0.3A
Nominal Output Voltage:	13.7Vdc
Output Current:	1A
Ripple:	0.2V pk-pk
Current Consumption:	W-CP-40T: 180mA W-CP-40K: 125mA W-CP-40E: 115mA
Standby Battery:	Orisec 2.4 Ah NiMH 12V
Recharge Time:	<24 hours
Low Voltage Alarm:	10V
Deep Discharge Cut-off:	8.5V
Fuses:	Mains: 1.6A Auxiliary: 0.5A PTC Network: 0.5A PTC Bell: 0.5A PTC Battery: 1.1A PTC
Network:	4-Wire standard 7/0.2mm alarm cable up to 500m
On-board Zones:	5 permanent + 5 programmable I/O
Panel Outputs	5 programmable I/O switched to 0V. Outputs 1 - 2 @500mA Outputs 3 - 5 @100mA

Environmental

Operating Temperature:	0°C to +40°C
Storage Temperature:	-20°C to +40°C
Max. Humidity:	95% non-condensing
EMC:	Residential, Commercial, Light Industrial & Industrial

Physical

Dimensions (hwd):	
W-CP-40T/E	168mm x 234mm x 40mm
W-CP-40K	168mm x 234mm x 43mm
Material:	Polymer: 3mm ASA
Packed Weight:	
W-CP-40T	1.1kg
W-CP-40E	1.1kg
W-CP-40K	1.0kg

Security

PD 6662:2017

EN 50131-1:2006+A1:2009

EN 50131-3:2009

EN 50131-5-3:2017

Grade 2, 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)

Manufacturer: Orisec Ltd, 1 St Crispin Way, Haslingden, Lancashire. BB4 4PW. United Kingdom.

Warranty

The Orisec W-CP-40 control panels 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 W-CP-40 failed to perform correctly as it is a component part of an installation and not a complete intruder alarm system.

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INS082