EURO 46 V10

Programming Manual

PD6662:2010+IA501:2015
EN50131-1:2008+A1:2009
EN50131-3:2009
Security Grade (SG) 3 - Large
Security Grade (SG) 2 - Small
Environmental Class (EC) II

Software Version >10
RINS1942-1

Contents

Introduction

This EURO 46 V10 has been designed with security in mind, quick and easy installation and minimal maintenance, this system protects properties with a multitude of unique features.

As well as wired, this system can take full advantage of innovative two way wireless technology, with the wireless devices on this system constantly communicating with each other using High Security Wireless Encryption Protocol.

Compared to conventional one way wireless systems, where devices can be 'asleep' for up to five minutes at a time, therefore compromising security, this wireless technology ensures safety at any time.

This alarm system has been engineered to be secure, reliable and easy to use. It includes the following features:

Battery Supervision

Advanced technology preserves the battery life of each wireless device. However, the system informs you when a battery needs replacing up to a month in advance before the device stops working. This key feature gives you enough time to change the battery in the specific device. Conventional wireless alarm systems may not give you a low battery warning signal, meaning that devices could stop working, leaving the environment unprotected.

User Automation Outputs

These give you the option to operate up to 20 devices such as gates, lights, garden sprinklers, etc. via keypad and remotely via key fob or HomeControl+ App, extending the use of your security system.

User Notification

Receive notice via SMS text message or push notification of any incidents within your home in real time. This can be programmed to send in different situations such as:

- System is set or unset: Notification that your child has returned home from school safely.
- Alarm activation: Notification that the alarm has been triggered, allowing you to monitor your home from anywhere in the world.

This alarm system has 6 areas which may be set up in the following way:

Area A: Full set of the house

Area B: Downstairs set. Upstairs unset.

Area C: Garage set. Rest of house unset.

You will be able to design the system according to your customer's needs.

PyronixCloud and HomeControl+ App

Connect to your home from anywhere in the world

- Set and unset your system
- View your system status in real time, including: alarm, CO and smoke detectors
- Customise and receive push notifications from your system
- Have instant access to your events and history log
- Control appliances such as lights, garage doors, gates and blinds
- All using an encrypted, highly secure system, for extra peace of mind that your family and home is safe and secure

AES-256 Encryption

Pyronix Cloud

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Engineer Menu - Navigation

The system is programmed from the Engineer Menu. To enter the Engineer Menu the panel must be in an unset state. While the panel is in Engineer Menu all tamper alarms (including case tamper), will be disabled.

Navigating in the Engineer and User Menus

[NO] = 'NO' - Press to move forward when in Engineer or Master Manager mode.

[B] = 'BACK' - Press to move backward when in Engineer or Master Manger mode.

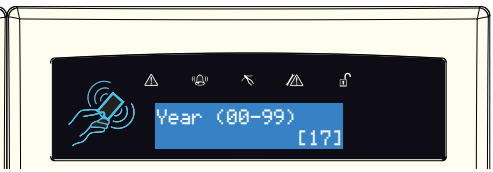
[YES] = 'YES' - Press to enter into a sub-menu or option when in Engineer or Master Manger mode.

[YES] = Press to move from one option into another option while in a sub-menu.

[A] = Press to quick exit the Engineer Menu from any main menu (written in capital letters).

[C] = 'CANCEL' - Press to move back from one programmable option to the previous option.

Main Menus and Sub-menus



A Main Menu item is identified by:

- The menu item will be in capital letters

A Sub-menu is identified by:

- The menu item will be in lower case letters

In order to navigate in the menu system, answer the questions in the main and sub menus. For example, if the question "WIRELESS DEVICE CONTROL?" is displayed, then press [YES] or [NO] depending on the answer.

Pressing [YES] will enter a sub-menu called "Control Inputs?" in this example. Pressing [YES] will enter the programmable options of this sub-menu. Pressing [NO] will exit the individual option, move up from one sub-menu to the next sub-menu or back to the main menu.

Entering The Engineer Menu

Access to the Engineer menu may be denied if:

1. Any areas is currently set.
2. The Master User has disabled the function 'Allow Engineer Menu' in the Master Manager menu. If this is the case 'Authorisation required' will be shown on the display.

When in Engineer menu, the fault (⚠) LED will flash and a high pitched tone will be generated regularly.

Exiting The Engineer Menu

On completion of programming, the system can be returned back to unset mode by either scrolling to the 'Exit Engineer Menu' option, or by pressing [A] from any main menu option (represented in capital letters).

Accessing the Engineers Menu on any Keypad

It is possible to access the Engineer Menu on any keypad that is part of the system, even when another keypad is already in the Engineers Menu. All other keypads will display 'System Busy' where a keypad is in the Engineer Menu. To access the Engineer Menu on one of these keypads press [B].

Saving The Programming

Any programming done in the Engineer or User mode will not be saved on the system until the Engineer or User menu has been exited.

Writing Text on the keypad

On the EURO 46 V10 Panel it is possible to label the following:

- Inputs – 2 labels; Input Number and Location
- Area names
- Site name
- Keypad/Reader – 2 labels; Keypad number and location
- Input and output expander location descriptions
- User names

The control panel incorporates a predictive text feature, and works like so:

Enter 'B' and 'Bedroom' will be displayed. If the word that is required does not appear, then type the word letter by letter.

To type a word, press the relevant button the appropriate number of times – e.g. for the letter 'k' press [5] two times, or for the letter 's' press [7] four times. For punctuation marks, press the [1] button multiple times until the desired character is shown.

Misc Button Typing

Button	Text Function
[A]	Makes the character into a capital
[C]	Clears letters / adds a space
[B]	Moves cursor left
[D]	Moves cursor right
[◄] [►]	Moves the cursor left and right

Engineer Menu - Options

Inhibit Fire / HU (Hold Up)

This menu has a single sub-menu that simply allows you to toggle between 'Yes [1]' and 'No [0]', in order to Inhibit a fire or Hold Up alarm while in engineer's mode/menu. For example, you may wish to inhibit smoke detectors while in the engineers menu so that you can work on them.

Set Date and Time?

All log entries and the system display include the date and time, so it is vital that the correct date and time is programmed. This may be also programmed in the Master Manager mode.

PLEASE NOTE: Removing the mains power and disconnecting the battery will reset the time and date information.

Change Year

For the year 2017, enter 17.

Change Month

For March, enter 03.

Change Day

For 31st, enter 31.

Change Hours

Use 24 hour clock format. For 8pm enter 20:00.

Change Minutes

For 7:30, enter 30.

DST (Summer Time) Adjust

If activated this option will automatically change one hour ahead and backward for the summer and winter time.

Wireless Device Control?

This function learns or deletes all wireless inputs, bells and arming stations to the EURO 46 V10.

PLEASE NOTE: Keyfobs are learnt and programmed from the Master Manager Menu.

Control Inputs?

Learn Devices?

This menu starts the procedure of learning wireless inputs onto the Euro 46 V10.

Input

This menu chooses which input on the system is to be learned. 'Learnt' will be displayed if a device is already learnt, or 'Available' if it is not.

Learning…

1. Open the wireless device.
2. Remove the plastic insulation to enable the battery.
3. If the device is not learnt, the GREEN and RED LEDs on the device will flash (alternating).

4. Press and hold the ‘learn’ button on the device and all three LEDs start cycling through.
5. Release the ‘learn’ button. If successful, ‘Input Learnt’ will be displayed on the keypad and a confirmation tone will be emitted.
6. If that input has already been learnt, ‘Input learnt already’ will be displayed.

To locate the learn button on each wireless peripheral, please refer to the installation manual provided with the device.

Delete Devices?

Already learnt inputs may be deleted from this menu.

Delete All

To delete all wireless input devices, enter ‘2000’. ‘Please wait’ will be displayed while the EURO 46 V10 deletes all the learnt wireless inputs.

Choose Input to Delete

This option deletes only a specific wireless device learnt to an input. Any inputs that display ‘learnt’ can be deleted. ‘Please wait’ will be displayed while the Panel deletes the wireless device. Return to this process to delete more devices.

Control Bells?

Learn Devices?

Entering this menu allows the learning of wireless bells onto the system.

Select Bell

Selects the bell on the system that is to be learnt. ‘Learnt’ will be displayed if a bell is already learnt, or ‘Available’ will be displayed if not.

Learning…

1. Open the wireless bell.
2. Plug the battery connector into the battery terminal.
3. If a device is not learned, the GREEN and RED LEDs on the device will flash (alternating).
4. Press and hold the ‘Learn’ button on the device and all three LEDs start cycling around.
5. Release the ‘Learn’ button. If successful, ‘Bell Learnt’ will be displayed and a confirmation tone on the panel will be emitted.

If a bell has already been learnt, ‘Bell learnt already’ will be displayed.

Delete Devices

Already learnt bells may be deleted by entering this menu.

Delete All

To delete all wireless bells enter ‘2000’. ‘Please wait’ will be displayed while the EURO 46 V10 deletes them.

Select Bell to Delete

This option deletes only a specific wireless bell that is learnt. Any bells that display ‘learnt’ can be deleted. ‘Please wait’ will be displayed while the Panel deletes the wireless bell. Return to this process to delete more devices.

Control Arming Stations?

Learn Devices?

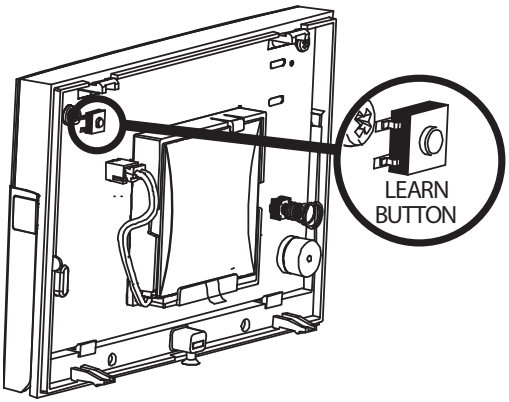
Entering this menu allows the learning of wireless arming stations onto the system.

Select Arming Station

Selects the arming station on the system that is to be learnt. 'Learnt' will be displayed if an arming station is already learnt, or 'Available' will be displayed if not.

Select Arming Station ⇨ Learning…

1. Open the Wireless Arming Station.
2. Plug the battery connector into the battery terminal.
3. If a device is not learned, the GREEN and RED LEDs on the device will flash (alternating).
4. Press and hold the 'LEARN' button on the device and all three LEDs will start cycling around.
5. Release the 'LEARN' button. If successful, 'Arming Station Learnt' will be displayed and a confirmation tone on the panel will be emitted. If an Arming Station has already been learnt, 'Arming Station learnt already' will be displayed.



Delete Devices

Arming Stations that have already been learnt, may be deleted by entering this menu.

Delete All

To delete all Wireless Arming Stations enter '2000' (this is the Panel Security Code). 'Please wait' will be displayed while the EURO 46 V10 deletes them.

Select Arming Station to Delete

This option deletes only a specific Wireless Arming Station that is learnt. Any Arming Stations that display 'learnt' can be deleted. 'Please wait' will be displayed while the EURO 46 V10 deletes the Wireless Arming Station. Return to this process to delete more devices.

Learn Keyfobs Procedure

The key fobs are learnt and deleted from the Master Manager menu (Requires Wireless ZEM to be setup and addressed).

Learn Key fobs?

1. Enter Master Manager menu (press the [D] key then enter code).
2. Scroll to the function 'EDIT USERS?'.
3. Select 'Add New User?'
4. Choose a user number to allocate the key fob to.
5. If a key fob, code or tag are not learnt, the space between the brackets will be empty.
6. If a key fob, code or tag are learnt, the brackets will show [******].
7. Press and hold any of the key fob buttons for five seconds, then release.
8. A confirmation tone will be emitted and 'Select Button' will be shown on the display.

Proceed with the programming of actions to each key.

Delete/Change User (Key fobs)

1. Enter Master Manager menu (press the [D] Key then enter code).
2. Scroll to the function 'EDIT USERS?'.
3. Select 'Delete/Change User?'
4. Choose the key fob to delete = Between the brackets will show [******].
5. Press [C] = The brackets will be showing [ ] to confirm the deletion.

Program Key fob Buttons?

This menu is used to program the functionality of the buttons on the key fobs and is available in the Engineer menu -> Wireless Device Control -> Program Key fob Buttons.

Choose User

Select the user key fob to program.

Select Button

The different buttons and button combinations that may be programmed are:

[1] Lock Button

[2] Unlock Button

[3] Button I

[4] Button II

[5] Lock + Unlock Buttons

[6] I + II Buttons

[7] Lock + I Buttons

[8] Unlock + II Buttons

Button Action

Options are: 'show status', 'set area', 'unset area' and 'operate output'. Two key combinations may also have 'hold up' assigned to them. 'Set area' features a sub-option to choose which area to set. 'Operate output' features a sub option to choose which output to trigger.

User Controls

If an action is programmed as 'set area', then the areas which the key fob will control can be selected here.

PLEASE NOTE: Once all wireless inputs are learnt, an input type must be assigned to them, this is programmed in 'change inputs'.

Change Inputs?

By default, all inputs are set to 'unused'. Before programming, identify the input type required:

PLEASE NOTE: A full list of all input types can be found in 'Appendix 1'.

Choose Input

Choose an input to program.

Input Type: Assign an input type to the chosen input. For a full list of input types, please refer to 'Appendix 1'.

Input Areas:

Enter the areas (0,1,A,B,C,D) for input to operate in.

Input Areas (Any or All)

In some installations a 'common' area may be required. A common area is an area that only sets when other specific areas become set. Example: An entry and exit reception area in a building may only need to be set if both the offices and warehouse are set. If the office in Area A is set, but the warehouse in Area B is still occupied, then the reception would still need to be inactive so people would be able to leave the premises via the entry / exit reception route. One input can be allocated to one or more areas. In this example the inputs located in the reception area will be programmed so that the reception inputs will be in Area A and Area B, so these inputs must have the Input Areas set as 'ALL' programmed.

Area A: Office - Inputs = 3, 4, 5

Area B: Warehouse - Inputs = 6, 7, 8

Reception inputs – 1 and 2 are programmed into both Areas A and B, with both inputs configured as 'ALL'. The Reception Area inputs will now only become active if both Area A and Area B are both set.

Input Attributes

Attribute	Operation for both wired and wireless inputs
Chime	When enabled the system loudspeaker(s) will 'chime' when an input is triggered while the alarm panel is unset. Chime can be set to 'single' (sounding once) or 'follow' (sounding while the door is left open). NOTE: The chime can be turned on or off in unset mode by pressing [c] when all Entry Delay inputs are closed.
Omittable	Enables the input to be manually omitted (disabled) from the setting procedure. To omit inputs, there is a function in the Master Manager menu called 'OMIT INPUTS'.
Double Knock	If enabled, if this input is triggered twice within the pre-programmed time window or if the input remains active for that period, an alarm will be generated. The double knock option does not work on 'Follow' input type.
Dual Trip	The control panel will only generate an alarm if this input, and another like-programmed input (with adjacent number), are in alarm condition at the same time. Either input in alarm condition will prevent the system from setting.
Normally Open#	Enables the system to respond correctly when detectors of 'normally open' configuration are wired to the system. Alternatively converts input types which default to 'normally open' (such as Push to set) to operate with normally closed devices.
Walk Test	If enabled, a walk test will need to be done on the particular input before the system can be set.
Monitor Activity	This option is used in conjunction with NAT (none activity timer) in the 'CHANGE TIMERS' menu. When enabled this option will trigger an output once the NAT time has elapsed. An example scenario in which it might be used: A security guard who is obligated to walk a set route every hour – could be monitored by a detector (with this input attribute enabled). Failure to walk the route would activate an output, perhaps to a communications device, siren or light.
Special Log	Forces a log entry when the input is opened or closed, even when an alarm does not result. May be selected to apply when a system is set, when unset, or always.

Attribute	Operation for both wired and wireless inputs
Confirm Group	If inputs are selected into the same confirm group, each input will only generate an unconfirmed alarm (and will not generate a confirmed activation). This is useful when two or more shock sensors are being activated by the same event. If a confirm group is selected as '00', the inputs are not part of any group.

#The use of this input attribute will make the system unable to comply to EN50131-1 Security Grade 2 or 3.

Input Description

Two text labels can be associated to each input:

Enter Name:

This is commonly used to write the input name/number, such as: input 1, input 2. This label will show the event log and following alarms reported in the SMS alarms as a reference point.

Enter Location:

This is commonly used to write the location of the input, such as: Input Name = Input 1; Input Location = Living Room. In case there has been a tamper alarm on the input the SMS or APP notification will show: 'Input 1, Living Room, Tamper Alarm'. The display will be show: 1-Living Room, Tamper on Input. Meaning: Tamper alarm on input 1, which is the Living Room.

Manually Omitting Inputs

Method 1: (EN50131-1 Grade 2 and 3 compliant).

While the system is setting, press the [YES] key to omit inputs.

Method 2: (Only used to omit 24hr inputs).

Enter Master Manager menu -> 'Omit Inputs' to omit the inputs required.

PLEASE NOTE: The input attribute 'Omittable' must be enabled on each input so that the user has the ability to omit them.

Choose Mode?

If any wired inputs are used, the resistance, EOL mode and response time can be programmed.

PLEASE NOTE: Alarm 4K7, Tamper 2K2 must be selected if wiring double pole to any input.

EOL Range (End of Line Range)

'EOL Range' programs the panel to operate with different resistor values

[0] Alarm: 1K, Tamper: 1K. [1] Alarm: 4K7, Tamper: 2K2.

[2] Alarm: 4K7, Tamper: 4K7. [3] Wide range.

EOL mode (Double End of Line (DEOL) or Single End of Line (SEOL))

'EOL Mode' programs the panel to operate as:

[0] SR - Single End of Line (SEOL). [1] DR - Double End of Line (DEOL).

Input Response Time

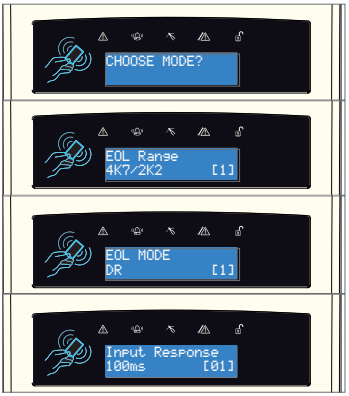
'Input Response Time' programs the time that an input must to open before the control panel generates an alarm.

[01]-[30] = 100ms to 3000ms

PLEASE NOTE: Settings above (>) 400ms do not comply with PD6662/EN50131.

Choose Mode Programming

1. Press [B] or [NO] to scroll to 'CHOOSE MODE'. Press [YES].
2. Press [B] or [D] to select the 'EOL Range' for all wired inputs*, Then press [YES].
3. Press [B] or [D] to select the 'EOL Mode' for all wired inputs. Then press [YES].
4. Press [B] or [D] to select the 'Input Response' for all wired inputs*. Press [YES] to return to the Engineer Menu.



Install ZEMs?

Any Zone Expander Modules (ZEMs) installed on the EURO system must be enabled using the 'INSTALL ZEM' menu function.

ZEM Address

[0] ZEM Address 0 (Inputs 9-16)
[1] ZEM Address 1 (Inputs 17-24)
[2] ZEM Address 2 (Inputs 25-32)
[3] ZEM Address 3 (Inputs 33-40)
[4] ZEM Address 4 (Inputs 41-48)
[5] ZEM Address 5 (Inputs 49-56)
[6] ZEM Address 6 (Inputs 57-64)
[7] ZEM Address 7 (Inputs 65-72)

ZEM Installed

[0] No
[1] ZEM8 / EURO37R
[2] ZEM32-WE

Enter Location

The text entered here will be displayed on the LCD display if a fault occurs on the ZEM, so the ZEM can be easily located or referenced.

Install ZEMs Programming

1. Press [B] or [NO] to scroll to 'INSTALL ZEMs?'.Press [YES].
2. Press [B] or [D] to select the 'ZEM Address' . Press [YES].
3. Press [B] or [D] to select either 'ZEM8/EURO37R', 'ZEM32-WE' or 'No' to 'ZEM Installed'. Press [YES].
4. Enter the location of the ZEM. Press [YES] to return to ZEM addressing.

5. Press NO to return to the Engineers menu.

PLEASE NOTE: If using wireless bells, Wireless Arming Stations or key fobs, the wireless ZEM has to be addressed as 00.

Change Outputs?

This option enables the programming of the outputs on the EURO 46 V10 and any devices that are connected to it. For a full list of output types please refer to 'Appendix 2'.

Endstation Outputs?

These are the outputs on the control panel itself: BELL O/P, STB O/P, PGM O/P, XPGM1 O/P, XPGM2 O/P, and ATE PINS 1-9. All of these are programmable but at default the BELL and STB are allocated to follow the alarm in any area as bell and strobe.

ZEM Outputs?

These are the outputs that are located in the ZEM8+ or ZEM8+PSU input expander modules, if used, there are four PGMs located on each of these modules.

Wireless Bells?

These are the wireless bell outputs of the ZEM32-WE if installed. There are two outputs – BELL O/P and STB O/P both of which are programmable.

Output Module Outputs?

This option enables the addition of a wired output module to the Control Panel, as well as programming of the PGM options for the outputs on the module.

Keypad Outputs?

Allows the programming of the PGM options for the outputs located on the wired keypads.

Reader Outputs?

Allows the programming of the PGM options for the outputs located on the wired readers.

User Outputs?

These outputs are used for creating automation control for devices. The user can control them remotely from the user menu on the keypad or via the HomeControl+ smart phone APP. The automated user outputs can be programmed (either latched or timed).

Polarity of the PGMs: The polarity of the outputs are normally switched negative, i.e. normal status OFF = 12VDC and in active status ON = 0VDC.

PLEASE NOTE: The PGM Outputs polarity cannot be inverted.

Assign Keypads and Readers?

Ensure that all keypads and readers are addressed correctly (at the device) before enabling and addressing them in this function. To address at the device please refer to the installation reference manual.

PLEASE NOTE: At least one keypad/reader should have the ability to unset any areas programmed.

Address /Arming Station Address

Addresses from 00 - 05 allow allocation of external wired readers or keypads, and 06 - 09 are for Wireless Arming Stations.

Type

The device types that are available will depend upon the selected address:

LCD keypads [0], Readers [1] Not Used [2], Arming Stat [3]

Reader is

If a reader is installed, the following options can be assigned to the reader:

[0] Set Point: Reader used for setting and unsetting.

[1] Ward Control: A reader can be used to create wards. For example: A keypad may control a full area, but within that area you may wish to control certain inputs only.

[2] Access Control: If an access control system is installed then the reader must be programmed as this type. The lock open time and door open time can be programmed (in seconds).

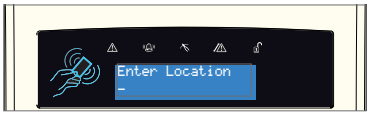
[3] Unset Only: Select this type if the reader is to be used as an unset device only.

[4] Entry Control: This option is used when the reader is used to lock/unlock doors and also is to be used to set and unset the system. This option is used in conjunction with 'tag opens doors' which can be found in 'Site Options' which is a sub-menu within 'SYSTEM OPTIONS?' The lock open time and door open time can be programmed (in seconds).

Programming Keypads: Assign Keypads/Readers

1. Press [B] or [NO] to scroll to 'ASSIGN KEYPADS/ READERS'. Press [YES].
2. Press [B] or [D] to select the address. Press [YES].
3. 'Type' will be displayed. Press [0] to select 'Keypad'. Press [YES]
4. 'Set Point Sets' will be displayed. Select the area(s). Press [YES].
5. 'Set Point Unsets' will be displayed. Select the area(s). Press [YES].
6. 'Set Point In' will be displayed. Enter the Area in which the keypad is situated and press [YES].
7. 'Set Point Description' will be displayed. Press [YES] to enter the name and location if required.
8. 'Enter Name' will be displayed. Enter the name of the keypad and press [YES].

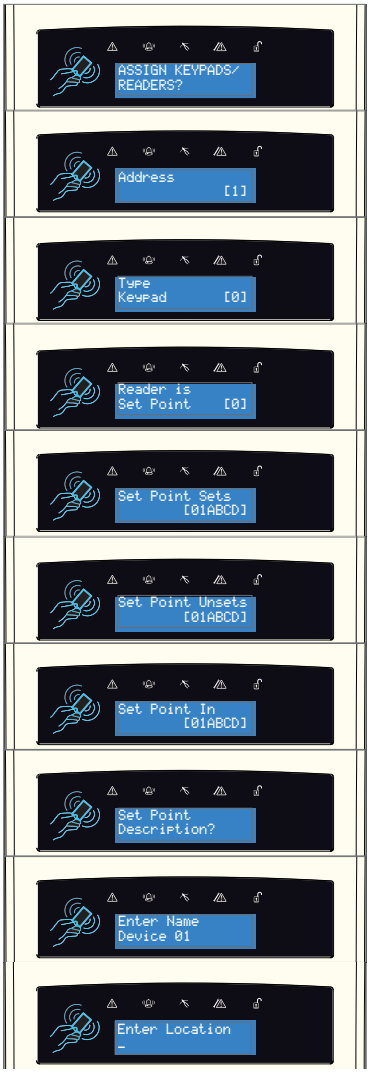
9. ‘Enter Location’ will be displayed. Enter the location of the keypad and press YES.



10. Press B or D to select another device address to program (0-9) or press the NO key to return to the Engineer Menu.

Programming Readers for Set Point or Unset Only: Assign Keypads/Readers

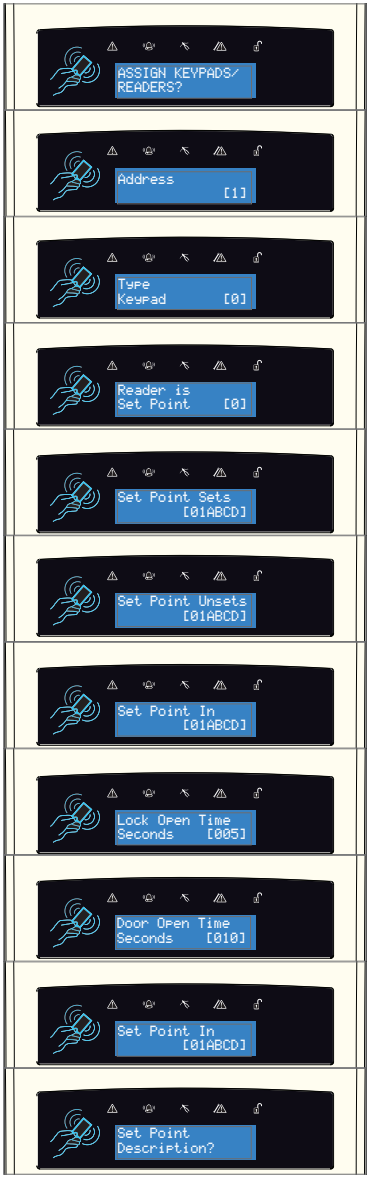
1. Press B or NO to scroll to ‘ASSIGN KEYPADS/ READERS’. Press YES.
2. Press B or D to select the address. Press YES.
3. ‘Type’ will be displayed. Press 1 to select ‘Reader’. Press YES
4. ‘Reader is’ will be displayed. Press 0 for ‘Set Point’ or press 1 for ‘Unset Only’ Press YES.
5. ‘Set Point Sets’ will be displayed. Select the area(s). Press YES.
6. ‘Set Point Unsets’ will be displayed. Select the area(s). Press YES.
7. ‘Set Point In’ will be displayed. Enter the area in which the keypad is situated and press YES.
8. ‘Set Point Description’ will be displayed. Press YES to enter the name and location if required.
9. ‘Enter Name’ will be displayed. Enter the name of the keypad and press YES.
10. ‘Enter Location’ will be displayed. Enter the location of the keypad and press YES.



11. Press [B] or [D] to select another device address to program (1-7) or press the [NO] key to return to the Engineer Menu.

Programming Readers for Entry Control or Access Control: Assign Keypads/Readers

1. Press [B] or [NO] to scroll to 'ASSIGN KEYPADS/ READERS'. Press [YES].
2. Press [B] or [D] to select the address. Press [YES].
3. 'Type' will be displayed. Press [1] to select the reader. Press [YES]
4. 'Reader is' will be displayed. Press [2] for 'Access Control' or press [4] for 'Entry Control' (as shown in example) & Press [YES].
5. 'Set Point Sets' will be displayed. Select the area(s). Press [YES].
6. 'Set Point Unsets' will be displayed. Select the area(s). Press [YES].
7. 'Set Point In' will be displayed. Enter the Area in which the keypad is situated and press [YES].
8. 'Lock Open Time' will be displayed. Enter the Lock Open Time in seconds and press [YES]. (Max 255 seconds).
9. 'Door Open Time' will be displayed. Enter the Door Open Time in seconds and press [YES]. (Max 255 seconds).
10. 'Door Contact No.' will be displayed. Press [YES] to enter a number and then press [YES] again.
11. 'Access Control Description' will be displayed. Press [YES].



12. ‘Enter Name’ will be displayed. Enter the name of the keypad and press [YES].

13. ‘Enter Location’ will be displayed. Enter the location of the keypad and press [YES].

14. Press [B] or [D] to select another device address to program (1-9) or press the [NO] key to return to the Engineer Menu.

Programming Wireless Arming Stations: Assign Keypads/Readers

1. Press [B] or [NO] to scroll to ‘ASSIGN KEYPADS/ READERS’. Press [YES].

2. Press [B] or [D] to select from addresses 6 - 9. Press [YES].

3. ‘Type’ will be fixed as [3] (Arming Station) Press [YES]

4. ‘Options?’ will be displayed. Press [YES].

5. ‘Tag Reader Enable’ will be displayed. This option enables or disables the Tag Reader on the wireless Arming Station. Disabling it will conserve battery power. Select then - Press [YES].

6. ‘Auto Wakeup’ will be displayed. This option wakes the tag reader from sleep mode during the entry process/walking the entry route. Select to enable or disable then - Press [YES].

7. ‘Supervision’ will be displayed. Radio supervision & battery monitoring improve security, but can be disabled to save battery power. Select to enable or disable and then - Press [YES].

8. ‘Back Light’ will be displayed. When enabled, the back-light will illuminate for 5 seconds after any key press. Select to enable or disable and then - Press [YES].

9. ‘Entry/Exit Sound’ will be displayed. This enables or disables the entry and exit sounds from the small piezo in the Arming Station. Select to enable or disable, then - Press [YES].

10. ‘Set Point Sets’ will be displayed. Select the area(s). Press YES.

11. ‘Set Point Unsets’ will be displayed. Select the area(s). Press YES.

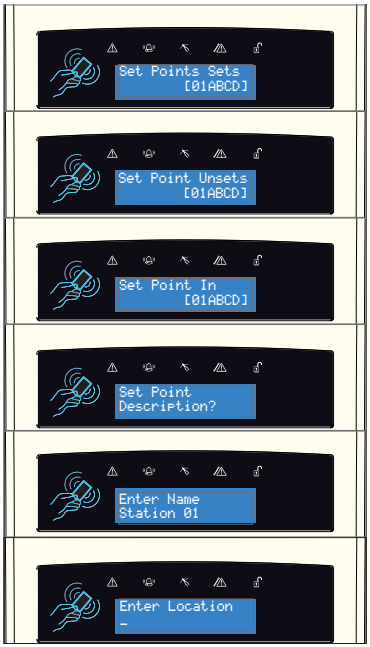
12. ‘Set Point In’ will be displayed. Enter the Area in which the Arming Station is situated and press YES.

13. ‘Set Point Description’ will be displayed. Press YES to enter the name and location if required.

14. ‘Enter Name’ will be displayed. Enter the name of the wireless Arming Station and press YES.

15. ‘Enter Location’ will be displayed. Enter the location of the wireless Arming Station and press YES.

16. Press B or D to select another device address to program 7 - 9 or press the NO key to return to the Engineer menu.



Change Timers?

Timers	Description	Options
Entry Time (01ABCD)	Programs the entry time for each area. **PLEASE NOTE:** Ensure that the timer is no longer than 45 seconds in order to comply with EN50131-1.	0-255 seconds
Entry Time 2	Same as above therefore allowing for different timers on 2 entry routes.	0-255 seconds
Exit Time (01ABCD)	Programs the exit time for each area.	0-255 seconds
APP Exit Time	Programs the exit time for each area that is applied when the area is set using the HomeControl+ Android or iOS App. **PLEASE NOTE:** This time must be set at 30 seconds or more to comply with PD6662:2010+IA:2015.	0-199 seconds
Siren Time (01ABCD)	Program the length of time an external sounder will be audible for.	2-15 minutes
Siren Delay	The delay after the intruder alarm before bell activates. **PLEASE NOTE:** Not valid within three minutes of final set, or after entry time started. If ‘Silent 1st Alarm’ is selected in alarm responses the delay commences at confirmed alarm.	0-20 minutes
Confirm Time	Time period during which a second activation must occur to qualify as a ‘sequentially confirmed’ alarm. **PLEASE NOTE:** BS8243 specifies a confirm time between 30 and 60 minutes. This can also be used in conjunction with testing an omit signal.	1–99 minutes
HU Confirm Time	Time period during which a second activation on a hold alarm must occur to qualify as a ‘sequentially confirmed’ alarm. **PLEASE NOTE:** BS8243 specifies a confirm time between eight and 20 hours. This can also be used in conjunction with testing an omit signal.	8 – 20 hours

Timers	Description	Options
Strobe Time	The duration of time the strobe output remains live after the bell time ends **PLEASE NOTE:** '99' means endless.	0-99 minutes
Re-Arm No.	The number of times the system re-arms after the confirmation time ends. Re-arm number applies to each area and does not affect emergency alarms ('9' = 'always re-arm').	0-9
AC Signal Delay	The time delay before the mains failure or technical alarm is notified. System changeover to battery supply and associated visual alert indication is always immediate. Some ATE impose a set delay in notifying a mains fail. This should be taken into account when setting this timer. **PLEASE NOTE:** Setting the timer to '250' will never send a signal.	0-250 minutes
Settle	The time between the set procedure completing and the area arming.	0-255 seconds
Double Knock	The length of the time which two activations of an input must be received from any which have the 'Double Knock' attribute set to 'Yes'.	0-75 seconds
Pre-Alarm	Delays 'Intruder' output signals if the entry time has started. **PLEASE NOTE:** Pre-alarm time must be set for at least 30 seconds to comply with PD6662.	0–255 seconds
Comms Fault Delay	Duration that the panel must detect a signal path failure. **PLEASE NOTE**: In the case of devices connected via the ATE pins, this time is additional to that already applied by the ATE.	0–250 minutes
Set Fail	The time after which the 'Set Fail' operation will be invoked if the exit procedure is not completed.	5–255 seconds
Guard Code Alarm	Minimum time an alarm must have existed before a Guard Code will be accepted to unset.	0-10 minutes
Fire Siren Time	The cut off time for the fire alarm **PLEASE NOTE:** '99' means endless.	1–99 minutes
Set Fail Warning	The time which a set fail warning will be present.	0–99 minutes
Input NAT Days	This 'Non-activity Timer' (NAT) works in conjunction with the input attribute 'Monitor Activity' and defines the time after which the 'Zone Activity FI' output will be triggered when 'Monitor Activity' is enabled for an associated input.	0-14 days
Input NAT Hours	Used in conjunction with 'Input NAT Days' to give a total time defined in days and hours combined (e.g. 0 days, 1 hour or 14 days, 23 hours etc.)	0-23 hours
Wireless Supervision Time	This option is only applicable if wireless devices are installed. This is the time period which the panel must receive a signal from each of the wireless devices. **PLEASE NOTE:** This must be programmed to two hours or less for compliance to EN50131.	0-99 hours
Wireless Jamming Time	This option is only applicable if wireless devices are installed. This governs the length of time a wireless input's signals can be 'jammed' before the panel reports a fault. **PLEASE NOTE:** This must be programmed to 1 - 30 seconds for compliance to EN50131.	0-100 seconds
Service Time	This is a timer set to warn the user that a service on their alarm system is due. An Engineer Code is needed to clear the message.	0-734 days

Codes And Users?

Five Digit PINs?

Set this option to 'Yes' to allow the use of 5 digit and 6 digit codes (This will disable codes below 5 digits in length). Set this to 'No' if you would prefer to use codes below 5 digits in length.

Delete Users And Fobs?

This function deletes all the user codes (or tags/fobs assigned to a user) from the system.

Change Duress/Guard Codes?

This function changes the Engineer code, the Master Manager code and adds/changes/deletes any Duress or Guard codes.

PLEASE NOTE: User codes, proximity tags and key fobs can only be changed in the Master Manager Menu, however users can change their own codes (if a user code has been set up).

Duress Code Types

Duress Code: If the Control Panel is unset using a 'Duress Code', a silent 'Duress' or 'Hold Up' signal is sent.

PLEASE NOTE: ACPO policy prevents use of Duress codes for police call purposes.

Guard: A 'Guard Code' can be used to unset the control panel only after the 'Guard Code Alarm' time has expired. The code will set a system and an output type (00058 Guard Code) will activate when this code is used.

Dial Out: A dial code is used to force the panel to dial the UDL software while in 'Day Mode'

Change Master Manager Code

The Master Manager code can be 4, 5 or 6 digits long, or can be assigned to a proximity tag. It may also have the following functions:

User Areas: (01ABCD) The areas to which the code applies.

User Set Options: [0] Unset/Set. [1] Unset Only. [2] Set Only. [3] None (menu access only).

Flexi Set: If enabled the default area the device is assigned to will set. If disabled the default area will be shown on the display and from here other areas can be selected.

Wards/Access: This will only be displayed if an Entry Control or Access Control reader is installed on the system. If the address of the Entry Control or Access Control device is entered here, then the code will be assigned to that reader only.

User Name: Enter a name for the user or group that use this code.

Change Engineer Code

The Engineer code can be 4, 5 or 6 digits long.

Change Codes Programming

1. Press [B] or [NO] to scroll to 'CODES AND USERS?'. Press [YES].

2. '5 digit PINS?' will now be displayed. Press [1] for 'Yes' or [0] for 'No' then press [YES] to move on.

3. The LCD will now display 'Delete Users And Fobs?'. Press YES and 'Are you Sure?' will be asked. Press YES to delete all users or NO to go back.
PLEASE NOTE: This is not reversible.

4. 'Change Duress Codes' will be displayed. Press YES to add any Duress, Guard or Dial out codes or press NO.

5. 'Change Master Manager Code' will be displayed. Press YES to change the Master Manager code or press NO.

6. 'Change Engineer Code' will be displayed. Press YES to change the Engineer code or press NO to return to the Engineer menu.

Volume Control?

The Volume Control function applies to both the main sounder, the on-board keypad or any additional keypads.

Area A,B,C,D,0,1 Entry Tone Volume

0=Completely Silent, 1=Silent, but beeps when the system is set. 2-5 keypad 6&7 = Main Sounder

Area A,B,C,D,0,1 Exit Tone Volume

0=Completely Silent, 1=Silent, but beeps when the system is set. 2-5 keypad 6&7 = Main Sounder

Area A,B,C,D,0,1 APP Exit Tone Volume

0=Completely Silent, 1=Silent, but beeps when the system is set. 2-5 keypad 6&7 = Main Sounder

Alarm Volume

0=Completely Silent, 1=Silent, but beeps when the system is set. 2-5 keypad 6&7 = Main Sounder

Fire Alarm Volume

0=Completely Silent, 1=Silent, but beeps when the system is set. 2-5 keypad 6&7 = Main Sounder

Tamper Alarm Volume

0=Completely Silent, 1=Silent, but beeps when the system is set. 2-5 keypad 6&7 = Main Sounder

Day Alarm Volume

0=Completely Silent, 1=Silent, but beeps when the system is set. 2-5 keypad 6&7 = Main Sounder

Chime Volume

0=Completely Silent, 1=Silent, but beeps when the system is set. 2-5 keypad 6&7 = Main Sounder

Code Stops Sound

If this function is enabled, then once an alarm has been generated (even if the code is not programmed for that area) the alarm will be silenced, and a 'Misoperation (Abort) signal' will be sent. The area will remain set until a code or tag is presented that is assigned to that area.

Entry/Exit Keypads Only

If this function is disabled, any entry and exit tones will be heard through the main sounder. If enabled, the entry and exit tones will only be heard through the keypad speaker.

Alert Kps Only

If this function is enabled, any 'Alert' tones will be heard on the keypad only and not the main sounder. If disabled, the alert tones will heard through both.

Silent Technical Alert

If this function is enabled then any technical alerts will be silenced, such as: line fault, ARC call fail.

System Options?

Site Options

Option	Description
Set With Fault	If 'Yes', the panel will set regardless of the following faults being present: Device fail, mains fail, battery fault, fuse fault, SMS failure, relay sirens 1&2 or relay strobe faults.
Set With Tamper	If 'Yes', the panel will set regardless of the following tamper faults being present: Case tamper and any system tampers.
Set With ATS Fault	If 'Yes', the panel will set regardless of the following ATS faults being present: Telecom line fail, modem fail, STU/ATE line fault, STU/ATE one path fail, Digi dial fail, or STU/ATE Comms fail.
Set Ward Tech Fault	If 'Yes' a ward can set even if mains, battery, Comms, or other system faults are present.
Set Fail = Alarm	If 'Yes' a graduated alarm will be generated when the 'Set Fail' timer expires. If an exit procedure is still incomplete then the set fail output will trigger too. If 'No' the 'Exit Time' will continue until the exit door is closed and the system will return to unset mode at the end of the 'Set Fail Warning' time if programmed.
Do Battery Load Test	If 'Yes' the system will perform a full load test of the battery at 7:00am each day.
Strobe/Squawk at Set	If set to 'Strobe', any output programmed as 'Strobe any' will activate for five seconds after the control panel has fully set. If 'Squawk' is selected, any output programmed as 'Siren any' will activate for five seconds after the panel has set. Finally if set to 'Both' any outputs programmed as 'Strobe any' or 'Siren any' will activate for five seconds after the panel has fully set. PLEASE NOTE: If this function is enabled, a potential security risk could be in view for intruders to see.
Re-Arm Omits	If 'Yes' when the panel rearms at the end of the confirmation time, this function will force an input (not a system tamper) causing the unconfirmed alarm to be omitted, whether it's still in fault or not.
Use Level Set	If 'Yes', the system becomes 'level set' (having one area set only at any one time). If 'No': The system becomes an 'area' system (fully independent areas).
Confirmed When	Final Set: Confirmed signal only available after the system is set. Exit Starts: Confirmed signal available after the exit time has started. PLEASE NOTE: 'Exit starts' is not compliant with BS8243. PLEASE NOTE: 'Exit Starts' must be selected in order for it to be entered in the logs.
Autoset Force	If 'Yes' when auto-set is in use the panel will still set even if an input is open at the time.
Restrict PIN Use	If 'Yes' the system prevents a pin code being entered on the 'Entry Time', but allows the system to be silenced and unset once in alarm. PLEASE NOTE: Enable when BS8243 option 6.4.5 is in use.
Simple Set	If 'Yes', the control panel allows a user to set the system 'quickly' by pressing YES and then the Area (0, 1, A, B, C or D). PLEASE NOTE: This must not be enabled when BS8243 option 6.4.5 is in use.
Intelligent Set	When enabled, the panel will set in level set 'B' (the user code used must have level sets A and B assigned), but if a final exit input is activated (such as a front door) on level set 'A', the panel will automatically switch to setting level set 'A'. If no input is activated, the panel will just set level set 'B'.
Invert ATE Outputs	If 'Yes' the outputs are positive removed. If 'No' the outputs are positive applied.

Option	Description
Common Lobby?	If 'Yes', this will automatically prioritise the exit modes for each area: (0 = Timed, 1 = Final Door, 2 = Timed/Final Door, 3 = PTS). This option is only relevant when Final Door option is used on a system with different areas using a common lobby. EXAMPLE: If Area C is selected as the 'Final Door' setting mode and the rest of the areas are selected as 'Timed', then because 'Final Door' is higher priority, the users of every individual area must follow the 'Final Door' route to the exit - making this door a 'common for all areas'. If set to 'NO' the exit modes will be individually programmable to each area.
Flexi Unset	When enabled, this setting will allow users to select which areas they unset (from the areas that they have been permitted to unset).
2 Key HU	If the [1] and [7] keys are pressed and held together for a period of time (programmed in the keypad menu), a 'Hold Up' will occur. If 'NONE', the keys are disabled. If 'SILENT', a 'Silent Hold Up' will be signalled. If 'Bells Only', any external sounder will activate but NO signals will be sent. If 'BOTH', any external sounder will activate and a signal will be sent using the DIGI-GPRS.
External ATE Inputs	Permits selection of inputs to ATE pins to suit 'ATE' (including RedCare Reset), 'DigiCom' (including Telback), 'Relay Interface Monitoring' or 'Not Used'. NOTE: This option must be set to 'ATE' or 'Digi' in order for Line Fault, etc. monitoring to function. This option is NOT required for use with the digi-modem.
Tag Opens Doors	This function is only used in conjunction with a reader being programmed as 'Entry Control' in 'ASSIGN KEYPADS/READERS'. If 'YES' the 'Entry Control' readers will control the setting/unsetting and the doors. If 'NO' the Entry Control readers will control the setting/unsetting only.
Set With Polling Fault	If 'YES' the control panel will still set even if there is a wireless polling fault. The panel will not display a wireless polling fault. If 'NO' the user will not be able to set the panel with a polling fault. The panel will display a fault and the setting procedure will be stopped.
Fob Unset Entry	If 'YES' any wireless key fobs learnt will only be able to unset the panel once the entry timer has been activated. If 'NO' any wireless key fobs learnt will always be able to set and unset the Control Panel.
Wireless Bell Supervision	If 'YES' then the wireless external sounder will go into alarm if it can no longer communicate with the control panel / Wireless ZEM.
Download if Set	If 'YES' any upload/download procedures will be possible on the InSite software regardless of the set/unset status of the Control Panel.
UDL/Cloud Priority	If this is set to 'high', the Cloud signalling will take priority over ARC signalling events (may delay them slightly) to maintain a smooth cloud connection. If the system is graded (defaulted with clean start code 2002 for Grade 2 or 2000 for Grade 3), then this setting will default to 'low' so that Cloud connections cannot delay ARC signalling events.

System Displays

Area Texts (01ABCD)	The text can be programmed for each area; such as 'Area 0' you may want to be 'Full House Set'. PLEASE NOTE: A maximum of 16 characters is allowed.
Full Area Text	The text that is displayed when all areas are set.
Sign On Message	This is the message that is displayed in day mode.
Display When Set	If 'Yes', the keypad display will show the area text when that particular area is set. PLEASE NOTE: This must be programmed as 'No' to ensure compliance with EN 50131.
Display Alarms	If 'Yes', then the keypad display will show all alarms, without requiring a user to enter their code or present their tag. PLEASE NOTE: This must be programmed as 'No' to ensure compliance with EN 50131.
Display HUs	If 'Yes', then the keypad display will show any HU alarms that have occurred without requiring the user to enter their code or tag. PLEASE NOTE: This must be programmed as 'No' to ensure compliance with EN 50131.

Display Inputs	If 'Yes', then the keypad display will show any inputs that are activated in unset mode. PLEASE NOTE: This must be programmed as 'No' to ensure compliance with EN 50131.

Exit Modes

Exit Mode	Description
[0] Timed	Providing that all inputs are closed, the system will only set when the programmed 'Exit Time' has expired.
[1] Final Door	The system will only set when an input programmed as 'Final Exit 1' or 'Final Exit 2' opens and closes.
[2] Timed/Final	This function follows the 'timed' operation, except that the timer will be overridden if an 'Final Exit' input is opened and closed before the timer expires.
[3] Push To Set	The system will only set when a 'Push to Set' button has been pressed. This function will override the programmed 'Exit Time'. The button can be used as a door bell when the 'Chime' input attribute is enabled.

PLEASE NOTE: If the setting has not been completed within the programmed exit time, it is possible to generate an alarm or return to unset mode. These parameters are defined in 'Change Timers' and the sub-menu 'Site Options' located in 'System Options'.

Review Logs?

There are two logs available on the system; panel and access control. Each log displays the most recent event first. Use [B] and [D] to move forwards and backwards through the log. To view additional details, press the [C] key. If no other information is available, the display will move to the next log entry. Press [A] or [C] again, to return to the main screen for that log entry.

PLEASE NOTE: In any unset or set period, the control panel will only log a maximum of three occurrences of any particular event.

PLEASE NOTE: It is not permitted under EN50131-1 to delete any logs. The only circumstance in which the logs can be cleared, is part of the 'Clean Start' operation.

The Panel Log?

Includes Set, Unset, Trouble, User, Alarm, Engineer Access, Time & Date changes etc.

The Access/Control Log?

Includes all Access Control and Guard Tour events.

Engineer Tests?

The Engineer Tests function allows the engineer to test inputs, outputs, batteries and the bell.

Sound To Play

This function allows you to listen to the different tones the system/keypad(s) makes. They have a choice of: Chime Single, Chime Follow, Exit Fault, Entry, Tech Fault, Tamper, Alarm, HU (Hold Up), and Fire.

Walk Test

PLEASE NOTE: If any programming changes have been made, please exit then re-enter the Engineer Menu before commencing any walk tests.

This function allows the engineer to test all the programmed inputs on the system. The inputs that have not been activated will be shown on the display. Once all the inputs have been walk tested, 'Walk Test Completed' will be displayed. When walk-testing a double-knock detector, it must be triggered twice within the pre-set period. When testing dual-trip detectors you must first open detector one and then trigger the second detector; next open the second detector and trigger the

first detector.

It is also possible to walk test a single input by pressing [NO] when the keypad displays 'Walk Test Areas?'

Soak Control

Any input may be placed on 'soak test' to prevent it from generating an alarm. If the input triggers while the system is set, it will indicate the activation and enter the details in the system log. You can also enter the number of days you would like the soak test to last, after this period the inputs will be active.
PLEASE NOTE: If an input triggers whilst on 'Soak' it will move on to the initial 'Soak' timer. Do not leave this on '0' as it will go live straight after failing.

Test Siren

Any outputs programmed with a siren or strobe configuration will be activated.

Do Battery Load Test

The Control Panel performs a check of the battery operation every 10 seconds by dipping the power supply voltage momentarily and measuring the system voltage. If the battery voltage measures below 8.9V, or the battery fuse has failed, a 'Battery Fault' warning will be generated. The panel can be programmed to perform an automatic battery load test at every power supply at 7.00am each day. This will drop the power supply voltage below the battery voltage, while monitoring the system diagnostics. The test will not take place if:

- The siren and/or strobe output are live.
- The control panel is in Engineer Menu.
- Any battery fault already present.
- Any mains fault already present.
- The site option is set as 'No'.

If the test has already started it will be aborted if any of these conditions apply, other than entry into Engineer Menu. If the test is aborted, it will not be performed until the next day. This is selected in 'Site Options' under 'Do Battery Load Test'. The test may also be performed as required, under engineer control.

Test Outputs

All the programmable outputs on the control panel and/or output module(s) can be tested in the menu by entering the output type number and pressing [YES] to trigger. Pressing [YES] again will stop the output from triggering.

Test Communications

This function can be used to send a test signal to the ARC if the engineer is using SIA or Contact ID to signal events. It can also be used to send a test SMS.

Fetch Time

This function is used to manually request the time from the cloud server if for some reason it has not updated automatically.

Diagnostics?

This option enables the engineer to perform full diagnostics on all key wired and wireless components of the system.

Wireless Devices

View Inputs:

This option views the status of all wireless inputs: O=Open, C=Closed, T=Tamper, B=Battery and S=Supervision.

View Inputs / Bells Signal Strength:

This option is used to view the signal strength for any wireless input, bell or arming station that is learnt to the system. The signal strength is shown on both the individual wireless device and on the panel in the following ways:

PLEASE NOTE: When doing any wireless signal strength or battery tests, it is recommended to wait a full 5 minutes to analyse the devices fully.

Wireless Device:

- If a green LED is shown the signal strength is High.
- If a red LED is shown the signal strength is Low.

Control Panel Display:

Once one of the signal strength menus has been entered, 'Please Wait' will be displayed and a countdown from 300 seconds will begin. This may last up to five minutes before all of the wireless devices have been analysed. From this point each device is tested every 15 seconds. On the LCD display it is also possible to view each individual device's signal strength as a percentage.

3 = Excellent signal – Shows green on the wireless Device / 80 to 100%

2 = Good signal – Shows green on the wireless Device / between 30 to 80%

1 = Weak signal – Shows red on the wireless Device / between 1 to 30%

0 = Missing – Has no signal

'?' = Waiting for device signal strength information

PLEASE NOTE: All wireless inputs are subject to signal strength fluctuation, based on this it is recommended that all wireless devices be installed at a minimum of '2' signal strength.

View Inputs / Bells/ Arming Stations - Battery Status?

This option is used to measure the battery levels for wireless inputs and bells. The battery level is shown on the control panel.

Once the battery status menu has been entered, 'Please Wait' will be displayed and a countdown from 300 seconds will begin. This may last up to five minutes before all of the wireless devices have been analysed. From this point each device is tested every 15 seconds.

Testing = Waiting for a Battery result.

Good = At least one month of battery life remaining.

Replace = Battery needs to be replaced immediately.

Wireless Dual Frequency Menu:

This option is used to view and troubleshoot the Dual Frequency operation of your system:

Channel – Displays which channel your control panel is operating on (this will be either 01 or 02).

Channel Reason – Displays the reason why the panel last switched from one channel to another.

SF/DF Status – Displays whether the control panel is currently operating in Single (SF) or Dual (DF) Frequency mode.

PLEASE NOTE: The panel will only operate in dual frequency mode if ALL peripherals support dual frequency (having even one SF device will default the whole system into SF mode).

First SF device – Displays the first single frequency device learnt on to the system (if there is one), once deleted it will display the next single frequency device and so forth. If there are none it will display; "All Devices DF".

Wired Devices?

View Inputs

This option views the status of all wired inputs: Open, Close, Tamper, and Fault.

Endstation Inputs:

The status of the inputs will be shown. C = Closed. O = Open. F = Fault, T = Tamper. The resistance reading can also be shown by pressing YES for any of the above for statuses.

ZEM Inputs:

Choose the ZEM address from [0] to [7] to view the input status.

Keypad Inputs:

Choose the keypad address from [0] to [5] to view the input status.

Reader Inputs:

Choose the reader address from [1] to [5] to view the input status.

View PSUs?

This option allows diagnostics of the power supply information for the PSU on the control panel, as well as all the additional peripheral devices, such as ZEM or Output modules that have a PSU on board.

Endstation PSU

End station voltage readings are displayed = Voltage: 13.7V.

ZEM PSUs

Choose the ZEM address from [0] to [3] to read the PSU voltage readings.

OP Mod PSU

Choose the Output Module address from [0] to [1] to read the PSU voltage readings.

Keypad Volts

Choose the Keypad address from [0] to [9] to read the keypad voltage.

Reader Volts

Choose the Reader address from [0] to [5] to read the reader voltage.

Calibration?

Enter the 'Security Code' to gain access to this menu. This function permits calibration of the control panel PSU voltage, using a calibrated meter.

Communications

This function displays the information gathered from the communication device currently fitted.

GPRS Module:

GPRS Signal Strength: The range '0-31' indicates the signal (31 = Excellent. <15 = Poor).

'--.-- ' indicates no signal.

App or ARC Status messages: Displays the current connection status of the PyronixCloud.

- Initialising – The panel is attempting to connect to the mobile network
- No Network – There is no network available
- Basic Network – The GSM network is available
- Full Network – The panel is logged onto the GPRS network
- Polling Cloud (App only) – The panel is polling the cloud
- Polling ARC (ARC only) – The panel is polling the ARC

Last App Contact: Displays the time period since the last successful connection to the HomeControl+ App.

Last Polled Cloud: Displays the time period since the last successful poll to the Pyronix Cloud.

Last Polled ARC: Displays the time since the last successful poll to the ARC.

LAN or Wi-fi Module:

IP Address: Displays the IP address of the LAN module.

Subnet Mask: Displays the Subnet Mask of the LAN module.

Gateway: Displays the IP address of the Gateway.

App or ARC Status messages: Displays the current connection status of the Pyronix Cloud:

Initialising – The panel is attempting to connect to the network

- No Network – There is no network available
- Polling Cloud (App only) – The panel is polling the cloud
- Polling ARC (ARC only) – The panel is polling the ARC

Last App Contact: The time period since the last successful connection to the HomeControl+ App.

Last Polled Cloud: The time period since the last successful poll to the PyronixCloud.

Last Polled ARC: The time since the last successful poll to the ARC.

Engineer Restore Options?

Restore Option	Effect
Engineer Restore Intruder	If 'Yes', then the user code will silence the alarm, but the engineer must reset the system with the Engineer Code before it can be used again. This will not interfere with the generation of HU alarm.
Engineer Restore HU	If 'Yes', the engineer can only reset the control panel after any HU alarms. This will not interfere with the generation of a Gas and Fire alarm.
Engineer Restore Tamper	If 'Yes', the engineer can only reset the Control Panel after any tamper alarms.
Engineer Restore Soak	If 'Yes', the engineer can only reset the Control Panel after any activated inputs that are under soak test.
Engineer Restore Confirmed	If 'YES', an Engineer code must be used to reset the Control Panel after a confirmed alarm has occurred.
Engineer Restore Faults	If 'Yes', the engineer can only reset the Control Panel for any of the following faults: ATE Telecom fail, Modem fail, ATE single path fail, Telecom line fail, Battery disconnect, Battery charge, Battery load, Excessive charge, Battery critical, Device fail (mains faults are excluded).
Anti-code Restore	If 'Yes', the system displays (if one of the above features is enabled) an anti-code number. This code is used by the engineer to generate a reset code via a special software kit, the reset code is then given to the user to reset the system.

Communications?

For all the information programming and testing of the communications options, please refer to the 'Communications Guide'. This will also contain all the information on setting up the HomeControl+ App.

The panel can also by operated via SMS commands. Please refer to 'Appendix 3 - SMS Commands' for a full list of commands.

PLEASE NOTE: The CSL sim cards cannot utilise the SMS command feature therefore, a third party SIM card must be used.

Alarm Responses?

The 'Alarm Response' function provides extra flexibility to how the system responds when an a alarm is activated. The different alarm responses are: 'Keypads', 'Internal Sounders', 'Siren Only', 'Digi' and 'Confirm'. The different alarm responses can be programmed to 'Start at' and to 'Stop at'.

PLEASE NOTE: Each level of response lasts for 15 seconds before moving up to its next level unless it is programmed 'Starts at Digi' and 'Stops at Confirmed'. In this scenario there will be no 15 second pause between each "stage" and there will be no cycle. All keypads, internal sounders, sirens and panel signalling will all start immediately and simultaneously.

Example 1: Area A is Set > Panel goes into Alarm > Internal keypads activate > Siren Activates > Digi Confirmed Alarm signalling Activates.
To program the example above Area A will Start at 'Keypads' and Stop at 'Confirmed'.

Example 2: Area B is Set > Panel goes into Alarm > Sirens Active only.
To program the example above; in Alarm Responses, Area B will Start at 'Sirens only' and Stop at 'Sirens only'.

Example 3: The Control Panel Alarm Responses can also operate on a combined area basis;
Area A starts at Sirens only and Stops at Sirens only
Area B starts at Sirens only and Stops at Sirens only
If both areas 'A' and 'B' are set; Start at Digi signalling and Stop at Confirmed Alarm signalling.

Silent 1st Alarm

If this function is selected as 'confirmed', then the first alarm to be activated on the system will be silent, but if another input activates (i.e. a confirmed alarm) then the alarm tones will be heard. This option is only valid once the system has been set for 3 minutes and if the entry time has not been initiated. The default setting is 'Never'.

Disable Confirm On Entry

To comply with BS8243 clauses 6.4.3 and 6.4.4, this option should be set to 'Yes' to disable confirmation once the entry procedure has started. For use with BS8243 option 6.4.5, this option should be 'No'. If 'Disable Confirm On Entry' is set to 'Yes' this option will disable all confirmation signals on entry. If 'No' is selected, the confirmation signals are enabled on the expiry of the entry time.

Area A, B, C, D, 0, 1, Starts at:

This feature programs where the alarms for each area A, B, C, D, 0, 1 start: 'Keypads', 'Internal Sounders', 'Sirens Only' or 'Digi'.

Area A, B, C, D Stops at:

Alarms for each area can stop at: 'Keypads', 'Internal Sounders', 'Sirens Only', 'Digi' or 'Confirm'.

Fire Alarm Starts at:

This feature programs the starting point of the alarm responses for a fire alarm. The levels are: 'Keypads', 'Internal Sounders', 'Sirens Only' and 'Digi'.

Fire Alarm Stops at:

This feature programs the ending point of alarm responses for a fire alarm. Chose from: 'Keypads', 'Internal' 'Sounders', 'Sirens Only' and 'Digi'.

Gas Alarm Starts at:

This feature programs the starting point of the alarm responses for a Gas alarm. The levels are: 'Keypads', 'Internal Sounders', 'Sirens Only' and 'Digi'.

Gas Alarm Stops at:

This feature programs the ending point of alarm responses for a Gas alarm. Chose from: 'Keypads', 'Internal' 'Sounders', 'Sirens Only' and 'Digi'.

HU Alarm Starts at:

This feature programs the starting point of the alarm responses for a HU alarm. The levels are: 'Keypads', 'Internal Sounders', 'Sirens Only' and 'Digi'.

HU Alarm Stops at:

This feature programs the ending point of alarm responses for a HU alarm. Chose from: 'Keypads', 'Internal' 'Sounders', 'Sirens Only' and 'Digi'.

Medical Starts at:

This feature programs the starting point of the alarm responses for a 24 hour alarm. The levels are: 'Keypads', 'Internal Sounders', 'Sirens Only' and 'Digi'.

Medical Stops at:

This feature programs the ending point of alarm responses for a 24 hour alarm. Chose from: 'Keypads', 'Internal' 'Sounders', 'Sirens Only' and 'Digi'

Day Alarm Starts at:

This feature programs the starting point of the alarm responses for a 24 hour alarm. The levels are: 'Keypads', 'Internal Sounders', 'Sirens Only' and 'Digi'.

Day Alarm Stops at:

This feature programs the ending point of alarm responses for a 24 hour alarm. Chose from: 'Keypads', 'Internal' 'Sounders', 'Sirens Only' and 'Digi'.

Start at:

This feature overrides the settings above. It can be used to create greater flexibility in the use of the alarm responses feature and, in this case, it is set up for each area if they are in set status only.

If Areas Set

Select the areas that the following settings will be applicable to.

Stop at:

For example: if Day Alarm is set to Start at Keypad and stop at Keypad, this feature allows set up for all Areas (if they are set) to make any alarm stop at Digi or Confirm.

If Areas Set

Select the areas that the above setting will be applicable to.

Set Up Downloading?

The control panel has uploading and downloading capabilities. The 'InSite' upload/download software allows you to monitor the status of each input, alter programming and review the logs. This software is available to download from www.pyronix.com. See the "Connecting to InSite Software" section for further instruction on different connection methods.

Dial Out Menu?

Select PC to Dial

This menu is used to select which PC programmed in to the system you would like to dial and connect to.

Operations

Connect to PC - Forces the panel to connect to the InSite software

Test Dial - Dials the InSite, connects and then hangs up.

ARM Service - Send an ARM service report to the InSite software.

Data from PC - Dials the InSite and downloads programming information for that panel.

Data to PC - Dials the InSite and uploads its latest configuration to the customer already created.

Diagnostics -

Commissioning - Dials the InSite, creates a new customer and uploads it's configuration.

Software Revision?

This option shows the software version, hub version and communication module version installed in the panel. Please obtain the software version number prior to contacting customer support, so that the correct information can be given upon supporting the product.

Clean Start?

This option is used to default the settings on the panel. It also includes the options to delete wireless data, codes and logs.

Clean Start Code

The system has two clean start settings, both of which comply to EN50131 regulations;
Grade 3 default code is 2000
Grade 2 default code is 2002

PLEASE NOTE: The panel is supplied with default settings that comply with EN50131 at Grade 3 (Clean Start Code 2000). If Grade 2 defaults are required please use Clean Start Code 2002.

Clear WLs Data?

This gives the option to clear or not to clear wireless devices if they have been programmed on the system already.

Clear Codes?

This gives the option to clear or not to clear user codes if they have been programmed on the system already. This can also be done in 'Codes and Users' and will revert the panel to its default codes.

Clear Logs?

This presents the option to clear or not to clear panel's memory logs and will clear both 'Panel' and 'Access' logs.

Exit Engineer Menu?

There are two ways to exit from the Engineer Menu. One way is by navigating on the keypad from this option and the other quick way is by pressing [A] from any other main menu.

Wired Keypad Menu

The keypads have a small internal menu used mainly for: addressing, changing the key click volume and changing the brightness of the LCD display.

Entering and Exiting the Keypad Menu

To enter the Keypad Menu, press and hold the [D] button until 'SECURITY CODE:' is displayed, enter '2000'. To exit, press the [A] key.

Keypad Menu Options

ADDRESS - Used to assign an address to a keypad.

LANGUAGE - Allows you to assign a language to the keypad menu only

ZONE STATUS - Displays the resistance of the two hard wired inputs to the keypad terminals.

KEY-CLICK VOLUME - Alters the volume of the tone heard when a keypad button is pressed.

TAG VOLUME - Sets the volume when tag is presented

KEYPAD VOLUME - Sets the general volume of the keypad

ID TAG - Used to read the unique ID number of the tag

RESET KEYPAD - Resets the keypad to factory settings

BACKLIGHT FORCE - Change to '1' to force the LCD back-light on all the time. If left on '0', the LCD will dim after 30 seconds.

PA/FIRE Timer - Sets how long the HU and Fire buttons have to be pressed for before an alarm is generated

Testing the Keypad

With the system unset, press and hold the [B] key for 10 seconds at any keypad. This will cause all the LEDs on that keypad to illuminate and the LCD screen to display each pixel. Approximately 10 seconds after the [B] key is released, the keypad will revert to the normal display.

Connecting to InSite Software

The Control Panel can be programmed by the LCD menu or the UDL InSite Software (provided free of charge). It can be downloaded from http://www.pyronix.com/pyronix-downloads.php. The connection between the control panel and the UDL software can be done in the following ways:

Cloud Connection

On the Panel

1. Enter the Engineer Menu.
2. Scroll the menu until on 'SET UP DOWNLOADING' – Press YES.
3. Choose 'Cloud' (option 6) in the 'Download by' options - Press YES.
4. Make a note of your System ID (to enter in the InSite software later) Press YES.
5. Select the security level – (for initial connections we recommend 'Normal') - Press YES.
6. Create/enter a system password and take note of it - Press YES.
7. Now on the 'Always Poll Cloud?' screen – select 'Yes' and press YES.
8. Now on the 'UDL Password' screen – optional - can be left blank or entered, then press YES.
9. Now on the 'Site Name' screen – compulsory – enter a site name and make sure you take note of it (for use later in the Insite software) – Press YES.
10. Finally go out of this menu and then into the 'Site Options' main menu and then scroll through until 'Cloud Priority', set this to 'Normal' for initial connections and then press YES (ensure that this setting is put back to high for ungraded systems – or leave it as 'normal' on graded systems).

On InSite UDL Software from a PC

1. Click on 'Roving Dial customer'.
2. Click on the 'Dial Out Mode' drop down list and select 'Cloud'.
3. Enter the 'System ID' of your control panel.
4. Enter the 'System Password'.
5. Leave the UDL security level at 'normal' for the initial connection test in the 'System Security Level' field.
6. Enter the Engineer Code as used on the control panel.
7. Enter the 'Site Name' as entered in the panel (case sensitive).
8. In the 'Enter Customer In Database As' field, simply give the panel you are connecting to an appropriate name.
9. Click 'Dial'. If the connection is successful, the Cloud Icon will become blue. A dialogue box will appear asking if you would like to create a customer, click 'Yes' to continue.
10. The panel is now successfully connected to the InSite UDL Software. Now select 'Data from Panel' to see panel settings and proceed to make changes remotely.

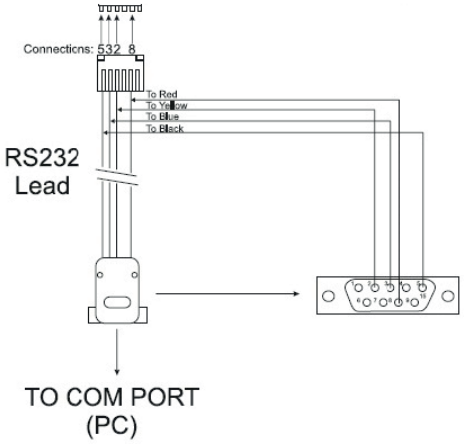
Serial Connection (RS232)

The Control Panel is set up by the factory with the RS232 port enabled as a method to connect to the UDL software.

PLEASE NOTE: For this connection a special cable (that is supplied by Pyronix) is required, or it can be created according to the diagram on the right.

PLEASE NOTE: If the PC does not have a serial port, you may require a standard RS-232 to USB converter.

Unscrew and open the Control Panel's casing and plug the RS-232 cable into the dedicated connector.



On the Panel

1. Enter the Engineer Menu.
2. Scroll the menu until on 'Set Up Downloading' - Press YES.
3. Choose 'RS-232' in the 'Download by' option - Press YES.
4. Now on the 'UDL Password' screen – optional – can be left blank or entered, then press 'YES'
5. Now on the 'Site Name' screen – compulsory – enter a site name and make sure you take note of it (for use later in the Insite software) – Press YES.
6. Finally go out of this menu and then into the 'Site Options' main menu and then scroll through until 'Cloud Priority', set this to 'Normal' for initial connections and then press YES (ensure that if this setting is put back to high for ungraded systems – or leave it as 'normal' on graded systems).

On InSite UDL software from a PC

1. To set up the COM port associated to 'modem', open the software, click on 'Configuration', choose 'Modem Settings' and select the 'RS-232' option
2. Make sure that the serial COM used by the UDL software is set the same as in your PC. E.g. Control Panel -> Device Manager -> Ports (Typical Windows PC).
3. Make sure that the RS-232 icon (at the bottom of the screen) has turned green.
4. Click on 'Roving Dial customer'.
5. Set the 'Dial Out Mode' field to 'RS-232'.
6. Enter the Engineer code in the 'Engineer Code' field.
7. Enter the site name as entered in the panel (case sensitive).
8. Click on 'Dial'
9. If the connection is successful, the RS-232 icon will become blue

Options Programmable Only From PC

The UDL software is available on www.pyronix.com/downloads. The software can be used to upload/download to the Control Panel and data can be viewed.

Two features that the UDL software incorporates are:

- Auto Set and Unset Timer
- Logic Gates

For help in the initial software set up, please refer to the UDL software help guides first.

Auto Set/Unset Timers

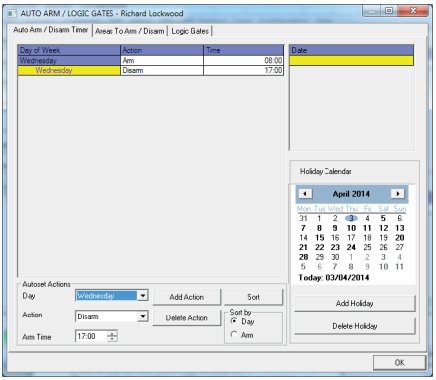
This function will allow automatic setting and unsetting procedures. This is useful when a premises is left unmanned for a period of time (such as holidays).

Create a new customer and select 'Euro' and then scroll to EURO 46 V10

The Auto-Set/Logic Gates will be enabled, click the 'OK' button.

Adding Set/Unset actions

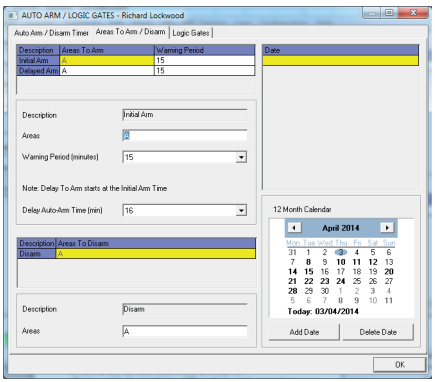
1. Select 'Add Action'.
2. Select the Day of the week to be Auto-Set. This will then be displayed in the list.
3. Select the action of this timer (such as Set)
4. Select the time (24 hour, such as 14:00 NOT 02:00) when the action should start.
5. Another action can now be added (such as Unset) and select the time for this action.



Adding 'Holidays'

A holiday setting will override any auto-timers that coincide with the holiday. Once the holiday has passed, it will not repeat.

1. Click 'Add Holiday'
2. Select the dates that are required for the holiday period. These will be displayed at the top right of the screen under 'Date'.
3. If any holidays are added by mistake, select that holiday and click 'delete'.



PLEASE NOTE: Make sure that any action already programmed matches correctly when the holiday period has finished, such as: if the dates January 1st, January 2nd, and January 3rd are selected, the Control Panel will stay set on all of the dates regardless of the auto-timers. However, an auto-timer should be set up to unset the day after the holiday has ended if required.

Areas to Set/Unset

This section of the software selects the areas that will be Set/Unset during the 'Auto Set/Unset' period.

1. Select the areas to be set and type them in the 'Areas' field.
2. Select the 'Warning Period'. This is a time (in minutes) when the Panel will warn anyone who may be in the premises that an Auto-Set is about to take place.

PLEASE NOTE: The warning time is additional to the Auto-Set time, such as: if the Auto-Set time is 22:00, a warning time of 15 minutes will be added to this, so the actual panel set time will become 22:15. If the panel must set at 22:00, but a 15 minute warning time is also needed, the Auto-Set time should be selected as 21:45.

3. Select the 'Delay to Set' time. This is the time used if a person in the premises needs to delay the auto-timer. If a code is entered on the Control Panel during the Warning Period time, the auto-timer can be delayed, such as: if the warning period is set to 15 minutes, and the Delay Auto-Set time is set to 20 minutes, then a user will have a further five minutes before the Auto-Set begins.

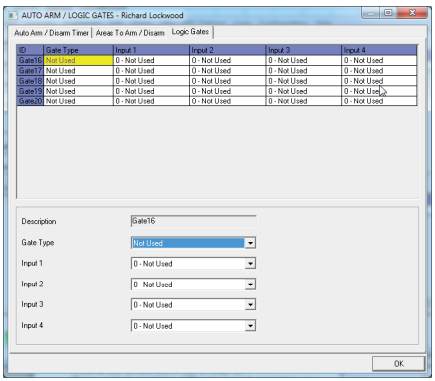
PLEASE NOTE: If a delay Auto-Set time is needed, it is recommended that this time is set to one minute more than the Warning Period. The delay auto-timer must always be set higher than the Warning Period.

4. Select the areas to unset for the Auto-Unsets programmed previously. These are usually the same as the areas that have been selected to 'Set'.
5. The '12 month calendar' is used for repetitive holidays that need to be repeated every year, such as: this may be needed for national events, memorial days or birthdays.
6. Once completed, exit the screen by clicking 'OK' and download the data to the Panel.

Programming Logic Gates

Logic Gates allow the use of 'logical operations' ('OR', 'AND' and 'NOT') to give greater control over how an output is activated. Rather than having an output activated following an 'intruder' alarm, it is possible to create an output that is activated, such as for example, when there is an 'intruder in area A' AND when area C is also set.

This could be useful in a scenario where different offices are occupied in different areas, and do not require an external communicator or siren to signal an alarm in one area, if other areas are still occupied.



Five Logic Gates are available for programming. To program:

1. Select the 'Logic Gates' tab
2. Select the gate type: 'AND', 'OR', 'NOT'
3. Select the inputs (up to four can be selected). These are the input types of the EURO 46 APP Panel.
4. Up to five Logic Gates can be programmed (Gates 16-20). These can only be programmed in the UDL software under the 'Inputs/Outputs' button.

PLEASE NOTE 1: Each Logic Gate can only be programmed with one 'logical operator', such as: a Logic Gate can be programmed as A or B or C, but not A or B and C. If it is desirable to combine different logical operators, the Logic Gates will need to be split. Thus to obtain A or B and C the following logic can be used: Logic Gate 1 = A or B; Logic Gate 2 = Logic Gate 1 and C. The following example shows how to program the command:

(("Burglary Any" OR "Tamper Any") AND "Ready C")

PLEASE NOTE 2: Only Gates 16-20 can be programmed. Gates 1-15 are for future use.

Faults and Troubleshooting

Device Fail / Active Faults

If a device on the system is not installed correctly or has been lost from the bus, a device fail will be present.

An example of each fault is as follows:

- Failure on the panel = 'Control Panel, Wireless Jamming Pnl'
- Keypad address 3 (0-9 available) failure = 'Device 3, Device Fail Kpd'
- Tag Readers address 2 (0-5 available) failure = 'Device 2, Device Fail Trd'
- Remote Input Expanders addresses 0 (0-4 available) = 'ZEM-00, Device Fail ZEM'
- Remote Output Module address 0 = 'OM-00, Device Fail OM'

If a 'location name' is entered for a device, the location will be displayed on the keypad instead of the address, such as instead of 'Device 3' the keypad will display 'Entrance Corridor'.

System Faults and Troubleshooting

Communications Faults

Fault	Description	Solution
MODEM FAULT	The panel is unable to see the Digi Modem	If the modem not present, ensure that the 'Disable Digi' option is set to 'YES' and 'DOWNLOAD MODE' is set to 'NONE' or 'RS232'. If present, but not detected, check the Digi Modem cable is connected correctly.
LINE FAULT	There is no telephone or GPRS line	a) Make sure the SIM card is plugged in on the modem/communications module. b) Make sure the GPRS signal is good enough.
CALL FAIL TO ARC	A call to the ARC has failed. NOTE: This is a communication problem, which is rarely caused by an equipment fault. Primarily this is related to the 'hand-shake' and 'kiss-off' frequency set up at the receiver.	Check that ALL call details are programmed correctly. Ensure that the signalling format is correctly set for the ARC receiver.

RS485 Bus Problems

Fault	Description	Solution
DEVICE FAIL xxx xxx = OM xxx = ZEM xxx = Kpd xxx = Trd xxx = Pnl	Wired Device on the RS485 bus has been lost. Each Device is recognised by its own name, such as: Output expander = OM Input expander= ZEM Keypad = Kpd Reader = Trd Control panel = Pnl	Identify the device. Check that the device is addressed correctly to match the programming. Check the connections at the device, and the cabling to it. If the above are correct, re-boot the device, followed by a re-boot of the End Station.
485/COMMS LOST	This is displayed on a keypad that has not yet established communications with the control panel (End Station)	Part of the routine initialisation procedure. If this persists, check the display at other keypad(s) to confirm whether the device failure is at the keypad or complete system BUS failure. Temporarily install an additional keypad.
Keypad display is BLANK	The keypad address does not match any keypad enabled in the panel.	Check the keypad address by pressing and holding [D] until the security code is required. Enter '2000' and set the keypad address. The primary keypad address is set to [00] by default.

Fault	Description	Solution
KEYS LOCKED OUT	a) More than one device is connected at the same address. b) Too many incorrect key presses have been entered to create a 'Code Guessing' condition.	a) Ensure correct addressing so that there are no overlaps. Next, power the system down and back up again to correctly reinitialise. b) Wait 90 seconds for the keypad to be re-introduced onto the system.
Authorisation Required	The master manager will need to give the Engineer access	The option 'Allow Engineer Menu' will need to be enabled by the master manager

Detection Faults

Fault	Description	Solution
CASE TAMPER	Case tamper switch open	Ensure the switch is closed
Code Guessing	Up to 13 invalid key presses have been entered or three invalid tags have been presented.	Press the 'NO' key to clear.

Power Supply Problems

Fault	Description	Solution
BATTERY FAULT xxx	Battery not present or Battery volts low	Note: This indication should be expected during recharge after a mains failure.
BAT LOAD FAIL	Battery Load Test has failed	Only displays if the option is selected. If the battery is uncharged or the capacity is below specification, then it may need replacing.
BAT CRITICAL	Battery being disconnected	Protects the battery from deep discharge damage during an extended mains failure. Note: The system is about to be powered down!
MAINS FAIL xxx	Mains supply failed	The system detects that the mains frequency is out of specification, as well as voltage. Note: 'AC FAIL' timer operative.
LOW VOLTS xxx	Power supply volts low	Battery volts below normal 'battery fault' level during a mains failure.

Engineer Indications

Fault	Description	Solution
Engineer Access Denied	Access to Engineer menu NOT possible, as system is not fully unset.	Ensure that ALL areas are unset, using suitable user codes/tags at the appropriate keypads/readers.
Check Failed Input xxx	Input in fault on attempting to exit Engineer mode.	Applies to 24-hour tamper, or other input types that would generate an alarm condition if the system were returned to unset mode. This also applies to tamper faults on other input types. Check for the fault on input, or omit it in programming.
Error input Areas not accessible	An input has been programmed to an area for which no setting point is valid to unset.	It would be impossible to fully unset the system after a tamper alarm on that input. Programming must be adjusted before exiting Engineer mode.
Error some Areas cannot be unset	Setting points have been programmed so it is possible to set an area, but not unset it.	Programming must be adjusted before exiting Engineer mode.

Wireless Faults (If Wireless ZEM installed)

Fault	Description	Solution
U-01 (xx) WLs LOW BATT	Low battery on wireless key fob (user) number 'xx'	Replace the battery on the key fob mentioned.

Fault	Description	Solution
I-01 (xx) WLs LOW BATT	Low battery on wireless input number 'xx'	Replace the battery on the input device mentioned.
B-01 (xx) WLs LOW BATT	Low battery on wireless siren number 'xx'	Replace the battery on the radio siren mentioned.
I-01 (xx) WLs SUPERVN	Device on wireless input number 'xx' has not 'checked in'	Perform a walk test on the detector, and a diagnostic signal strength test and then try replacing the battery.
B-01 (xx) WLs SUPERVN	Wireless siren number 'xx' has not 'checked in' within 20 minutes time	Test the siren, perform wireless signal strength diagnostic. Consider replacing the battery or relocating the siren.
- 01 (xx) CASE TAMPER	Tamper fault on input number 01 'xx' = any input number	Check the tamper switch on the detector and make sure the case is closed properly.
WLs TAMPER Bxx	Tamper fault on wireless siren number 'xx'	Check the tamper switch on the radio siren mentioned.
WLs JAMMING Pnl	Jamming fault on the Enforcer HomeControl+ Panel	Check no radio interference is in close proximity to the radio devices/panel.
WLs Supervn Fault	No 'supervision polls' were received for 20 minutes before the setting operation. Wireless Input or Bell input number will be shown so the problem is easily identified	Test the signal strength/battery on each of the wireless devices.
Input (xx) Wirles Poll Fail	Wireless Poll Fail displays when no 'polls' (wireless comms) are received for 20 minutes before the set operation.	Test signal strength / battery status for each wireless device (especially the one that corresponds to the input named by the fault message).
IWLs Input / nput Type Mismatch	Wireless devices are learned on inputs but no input types have been programmed for them.	Program the input type for each of the wireless devices learned in the CHANGE INPUTS.

Errors When Setting

Fault	Description	Solution
Please leave via exit door	If the exit mode is programmed as Final Door, then the premises must be left through this door for the system to be set.	Leave via the agreed exit route.
Exit Via…	If any follow detectors or door contacts are open during the setting procedure, a prompt will be displayed to close them.	Close all inputs.
Unable To Set	A fault condition exists on the system. Details of the fault will scroll on the display.	Correct the problem if it is an input which is open, or call an engineer.
Alarm during the setting	Fail to set time has been exceeded.	Leave the premises within the fail to set time, increase the fail to set time in 'timers' or disable this feature in system options.
Alarm during the setting procedure	Instant inputs have been activated.	During the setting procedure do not activate 'instant inputs'.

Access Levels

Level 1: Access by any person; such as the general public.

Level 2: User access by an operator; such as customers (If user code setup).

Level 3: User access by an engineer; such as an alarm company professional.

Level 4: User access by the manufacturer of the equipment.

Appendix 1 - Input Types

No	Input Types	Operation
00	Unused	Factory default. Input is disabled.
01	Fire	**Active at all times.** Audible Response: Differentiated Internal sound. Pulsed external sound. Communicator: 'Fire' signal
02	Gas	**Active at all times.** Audible Response: Full external + Internal sound. Communicator: 'Gas' signal
03	HU#	**Active at all times.** Audible Response: Differentiated Internal sound. Full external sound. Communicator: 'Hold Up' (PA) and 'Input HU' signals
04	Silent HU#	**Active at all times.** Audible Response: None Communicator: 'Hold Up' (PA) and 'Input HU' signals
05	Tamper	**When unset:** Audible Response: Internal only. Communicator: 'Tamper' signal. **When set:** Audible Response: Full external +Internal sound. Communicator: 'Tamper' signal.
06	Intruder	**Active when set:** Audible Response: Full external + Internal sound. Communicator: 'Intruder' and 'Unconfirmed' signals
07	Final Exit (FX)#$	**Active when set:** – initiates entry timer if system not unset before entry time expires: Audible Response: Full. Communicator: 'Intruder' and 'Unconfirmed' signals.
08	Entry Route (ER) $	**Active when set**, except during entry time. Audible Response: Full. Communicator: 'Intruder' and 'Unconfirmed' signals.
09	ER (Area FX)	**When fully set**, acts as 'Entry route' input, as above. When part set, acts as 'Final Exit' input, as above.
10	FX (Area ER)	**When fully set**, acts as 'Final Exit' input, as above. When part set, acts as 'Entry Route' input, as above.
11	PTS	**Active during exit time** to complete Setting procedure No audible or communicator response. Note: May be used to act as 'doorbell' by use of 'chime' attribute.
12	Switcher	**Active at all times:** This Input Type is used when you want an input to be used to trigger an output, but not an alarm. It will function whether the panel is set or unset and can be used to illuminate a light, or trigger a CCTV camera etc. NOTE: If the input has Masking or Tamper functions – then these will still trigger an alarm, it is only regular activations that will not.
13	Day Alarm	**When set**: Internal ('beep') Response: Full; Communicator: 'Instant' signals. **When unset:** Audible (sounder) Notification: Programmable; Communicator: '24hr Alarm' signal (if programmed in Alarm Responses menu).
15	Ward Control	Input is allocated by system software and cannot be reprogrammed to a different type, though relevant attributes may be adjusted.
16	Fault	**When set**: Audible Response: Full; Communicator: 'Instant' signals. **When unset:** Audible Response: Programmable; Communicator: '24hr Alarm' signal (if programmed in Alarm Responses menu).
17	Closure Supervision	**Active during Setting procedure**. No audible or communicator response. Prevents system being set whilst active.
18	Shunt Input	**Active at all times**. No audible or communicator response. Accepts input from key-switch (or equivalent) to shunt the inputs assigned to it. Associated outputs are available. After 10 seconds the detectors in the shunt list will be active.
19	Unset Input	**Active when set.** Accepts input from key-switch (or equivalent) to unset the Area/Level set assigned to it.
20	Keyswitch Latched*	Accepts input from key-switch (or equivalent) to set/unset the areas assigned to it. Setting includes normal exit time, etc. Requires latching action switch.

No	Input Types	Operation
21	Entry Shock Input	Active when system set. Works in conjunction with EE input type for detection of forced entry. This input type is designed specifically for use with systems installed using BS8243 option 6.4.5. This input type is always used in conjunction with an 'Entry/Exit' input. The 'Entry/Exit' input is a door contact on the initial entry door, and the 'Entry Shock' input is a non-latching shock sensor fitted to the door frame in the vicinity of the lock. If the initial entry door is subjected to gross attack and forced open, then at the expiry of entry time only one further intruder input need to be activated to signal a sequentially confirmed alarm – the 'Entry Shock' input counts as the first to alarm. The 'Entry/Exit' door contact must be opened with 10 seconds of the shock detector triggering for the 'Entry Shock' response to apply. Triggering the 'Entry Shock' input in isolation will not generate an alarm of any kind.
22	Input Line Fail	**Active when fail.** Will give a line fault alarm, and will signal Telecom line fault signal on expiry of line fault timer. Works in conjunction with CCTV input.
23	Keyswitch Pulsed*	Accepts input from key-switch (or equivalent) to set/unset the areas assigned to it. Requires momentary action switch to toggle set/unset state.
29	Interior	**Active when set.** Audible response: full communicator – intruder and unconfirmed signals. Will send interior event when using Contact ID /Contact ID IP.
32	Flood	**Active when set or unset.** This input type operates as a 24hr input, any inputs that are programmed for 'Flood' will activate the external siren. Full communicator: intruder and unconfirmed signals, flood event sent via Contact ID / Contact ID IP.
39	CCTV	**Active at all times.** No audible or communicator response If the input line fail is active, the system will signal CID/SIA events for perimeter alarm and the CCTV input will open.
40	Perimeter	**Active when set.** Audible response: full communicator – intruder and unconfirmed signals. Will send perimeter event when using Contact ID /Contact ID IP.
41	Keybox	**Export**: Similar to switcher input, but sends a Contact ID event of 'keybox'
42	Medical	Sends a medical Contact ID event when activated.
43	Final Exit 2	This is useful for programming different entry times for the front door and the back door of a house for example. See 'Final exit' listed above - for more details.

These inputs cannot be bypassed.

***** Use of inputs 20 and 23 will make the system unable to comply with EN50131-1 Security Grade 2 and 3.

$ Ensure that these inputs are used on an entry/exit route

Appendix 2 - Output Types

No.	Output Type	Active	Restore
0000	Not Used		
0001	Fire	At a fire alarm activation.	When a valid code is entered.
0002	Hold Up Any	At a hold up (HU) /personal attack activation.	When a valid code is entered.
0003	Intruder Any	At an intruder alarm from any area.	At first valid code entry.
0004	Final Set All	When ALL areas are set.	At code entry to unset.
0005	Misoperation (Abort)	When the system is silenced after an intruder alarm has been activated.	After two minutes.
0006	Confirmed Any	After two intruder alarm activations.	At the next code entry.
0007	Tamper Any	Tamper alarm activation in any area.	At code entry to silence and at the end of the confirm time.
0008	Duress Any	At a duress alarm in any area.	When a valid code is entered
0009	HU Device Any	At alarm on a HU input only, from any area (this does not include the keypad HU).	When a valid code is entered.
0010	Gas	At a gas alarm	When a valid code is entered.
0011	Set Fail	Pre-set time after the start of the exit time, if the exit procedure is not complete.	At code entry to reset.
0012	Entry Deviation	When a deviation from the entry route occurs (during entry time).	At code entry to unset.
0013	Secure Intruder Any	At alarm, after exit time started, until unset.	At the first valid code entry and at end of confirm time.
0014	Siren Any	When the alarm is live.	When the alarm is silenced or when the siren timer expires.
0016	Strobe Any	When the alarm is live.	When the alarm is silenced or when the siren timer expires.
0017	Omit Rearm Any	Input omitted if active (or in alarm condition) at the end of the confirmation time.	When the system is unset.
0018	Unconfirmed Any	At any intruder of tamper alarm.	At code entry to silence.
0019	Can Set All	When all inputs but the 'Entry Delay' and 'Follow' inputs are closed.	If fault exists, and after final set.
0020	Exit Starts All	At the start of the exit time to set the LAST area.	At unset FIRST area (such as no longer fully set).
0021	Exit Starts Any	When the exit time starts to set the FIRST area.	At code entry to unset LAST area.
0022	Final Set Any	When ANY area has been set.	At code entry to unset LAST area.
0023	Strobe Set Fail	Works similar to output 016, but also fires if the 'set fail' timer expires.	
0025	Keyswitch Unset	This output turns on for five seconds when the system is disarmed via a key-switch input (pulsed or latched).	
0026	Set with Omit	Active when the system is set with an input omitted.	
0028	Power Fault	Active during low volts and battery faults. Restores at code entry after the fault is cleared.	
0029	Confirm Intruder Any	When more than one intruder alarm activates.	At next code entry.
0030	Confirm HU Any	When more than one confirmed HU activates.	At the next code entry.
0031	Entry	Active during any entry time.	
0032	Exit	Active during any exit time.	
0033	Entry / Exit	Active during any entry or exit time.	

No.	Output Type	Active	Restore
0034	Lights	When the exit or entry timer starts.	20 seconds after the set/unset procedure has completed.
0035	Follow Input	• Active when a specific input number has been activated. It allows the following options to be programmed: • Follow Type (Follow, Timed, Latched, Code Reset); • Follow What (Input, Shunt List, Sub-Area, Area); • Follow When (Always, When Armed, When Disarmed); • Input to Follow	
0036	Shunt Fault	After an input in the shunt list is opened with an active detector (attempting to un-shunt) the 'Shunt Fault' output pulses until the shunt is reset.	
0037	Restore 1	At code entry to set. The normal state of this input is 0v and it changes to 12v when activated.	After three seconds.
0038	Restore 2	Activates whenever an additional area is set. The normal state of this input is 0v and it changes to 12v when activated.	When unset.
0039	PIR Latch 1	When set (and in Walk Test).	At alarm, or when unset.
0040	PIR Latch 2	This is the inverse polarity to PIR Latch 1.	At alarm, or when unset.
0041	Mains Good	Output showing the 230v mains supply is present.	
0042	Detr Indn Enable	Output activates during walk test and also when a code is entered to view detector indications (staying activated for the time that indications are viewed).	
0043	Follow Test	Output will activate only when tested from the Engineer menu 'Test Outputs' in the 'Engineer Tests'. This output can be used as an additional facility for testing the operation of a Bell. An output programmed to one of these configurations (43 and 44) may be used to trigger a relay to break the hold-off connection to the Bell – or even to provide the hold-off directly.	
0044	Off During Test	Output is normally active and will deactivate only when tested from the Engineer menu 'Test Outputs' in the 'Engineer Tests' (the same as 43 but opposite activation).	
0048	Detr Walk Test	This output is active during walk test and will only deactivate when all detectors have been tested.	
0049	Detector Masked	If any detector goes into 'mask' condition the output will activate.	When the masking fault clears.
0050	Follow 24 Hour	If any input programmed as '24 Hour' activates.	When the input is restored.
0051	Comms Fault	When the Telephone / Network or GPRS Line Fault is present.	When the fault clears.
0052	Mains Fail	After the pre-set time without mains power.	Upon restoration of mains.
0053	Battery Fault	When the battery is disconnected or load fail is detected.	At the next valid code entry.
0054	Low Volts	When less than 11.2v are present.	When the fault clears.
0055	Global Fault 1 Grade 2)	Activates if any fault occurs (only when the system is set).	When all faults are cleared.
0056	Global Fault 2 (Grade 3)	Activates if any fault occurs (at any time).	When all faults are cleared.
0057	German Relay	For future development. DO NOT USE.	
0058	Guard Code Used	When 'guard' code is used on the system	After 60 seconds.
0059	Engineer Access	When entering Engineer mode.	When leaving Engineer mode.
0060	Initialise Digi	At power up.	Live for 45 seconds.
0063	Test ATE/GSM	Activates when a test call is sent.	When the test is completed.
0064	Test ATS. For use with ATE complying with BSIA Form 175 to initiate test call to ARC by each available path.	Test signalling through PSTN and GSM. Activates when a test call is sent.	When the test is completed.

No.	Output Type	Active	Restore
0065	Zone Activity Fault	This is the output that will activate in response to the 'Monitor Activity' Input, once the programmed NAT time has elapsed. It will be cleared / restored by the next valid code entry.	
0066	ATE Not Used	Makes the ATE pin 5V or 0V depending on whether ATE outputs are inverted.	
0170--0199	User Defined 01-30	The user outputs are used for user automation to control external devices. They can be controlled via the keypad from the user menu and can be programmed as 'latched' or 'timed' (1 to 99 sec).	

No.	Output Type
0202	Hold Up A (As 0002 for Area A)
0203	Intruder A (As 0003 for Area A)
0204	Final Set A (As 0004 for Area A)
0206	Confirmed A (As 0006 for Area A)
0207	Tamper A (As 0007 for Area A)
0208	Duress A (As 0008 for Area A)
0209	HU Device A (As 0009 for Area A)
0210	Fire Reset A (As 0010 for Area A)
0213	Secure Int A (As 0013 for Area A)
0214	Siren A (As 0014 for Area A)
0216	Strobe A (As 0016 for Area A)
0217	Omit At Reset/rearm A (As 0017 for Area A)
0218	Unconfirmed A (As 0018 for Area A)
0219	Can Set A (As 0019 for Area A)
0220	Exit Starts A (As 0020 for Area A)
Then this pattern repeats for all other areas other areas so that:	
0222-0240 Area B 0242-0260 Area C 0262-0280 Area D 0282-0300 Area 0 0302-0320 Area 1	
0600-0609	Timers 01-10: For future development
0610-0619	Calendar 01-20: For future development
0620-0639	UDL Programmable Logic Gates 1-20.
0640-0649	Delay 01-10: For future development
1001-1046	Active when input opened and close when input is closed

*The use of pulsed or latched key-switch will make the system unable to comply with EN50131-1

Appendix 3 - SMS Commands

Setting the system via SMS text command

Example SMS command send:	Description:	Example SMS command response:
123456 Set A	123456 = User Code. Set A = Will set the Enforcer in area A.	Final Set; area A
123456 Set ABCD	123456 = User Code. Set ABCD = Will set the Enforcer in area A, B, C and D.	Final Set; area ABCD
NOTE: If no areas are specified then all areas will set (default). The default will be area A.		

Unsetting the system via SMS text command

Example SMS command send:	Description:	Example SMS command response:
123456 Unset A	123456 = User Code. Unset A = Will unset area A.	Unset; area A
123456 Unset ABCD	123456 = User Code. Unset ABCD = Will unset the area A, B, C and D.	Unset; area ABCD
NOTE: If no areas are specified then all areas will unset (default). The default will be area A.		

Setting with inputs omitted via SMS text command

Example SMS command send:	Description:	Example SMS command response:
123456 Set A Omit 4	123456 = User Code. Set A Omit 4 = Sets area A and will omit input number 4.	Input omit; area A Input 04 Forced Set; area A
123456 Set A Omit Kitchen	123456 = User Code. Set A Omit Kitchen= Sets area A and will omit the input that is called Kitchen.	Input omit; area A Kitchen 04 Forced Set; area A

Omitting inputs via SMS text command

Example SMS command send:	Description:	Example SMS command response:
123456 Omit 6	123456 = User Code. Omit 6 = Input number 6 will be omitted on the next setting procedure.	Input Omit; area A Input 06
123456 Omit Garage	123456 = User Code. Omit Garage = The input called Garage will be omitted on the next setting procedure.	Input Omit; area A Garage 06
NOTE: The name of the output has to be one word and spelled exactly as written in the panel, such as: 'Garage Door' is not acceptable. It has to be written as 'Garage-Door' in the panel and the respective command will be 'Garage-Door'.		

Checking the System Status via SMS text command

Example SMS command send:	Description:	Example SMS command response:
123456 Status	123456 = User Code. Status	Area A Unset No Faults Area B Unset No Faults Area C Unset No Faults Area D Unset No Faults

Operating the User Automation Outputs via SMS text commands

Example SMS command send:	Description:	Example SMS command response:
123456 Output 1 On	123456 = User Code. User Output 1 turns on.	OUTPUT 1 ON
123456 Output Garage-Door On	123456 = User Code output Garage-Door on = Turns output named as Garage-Door on.	OUTPUT Garage-Door ON
123456 Output Garage-Door Off	123456 = User Code output Garage-Door off = Turns output named as Garage-Door off.	OUTPUT Garage-Door OFF

NOTE: The user automation outputs can be also activated via the keypad or the key fob. NOTE: The name of the output has to be one word and spelled exactly as written in the panel, such as: 'Garage Door' is not acceptable. It has to be written as 'Garage-Door' in the panel and the respective command will be 'Garage-Door'.		
Checking the User Automation Outputs status via SMS text commands		
Example SMS command send:	Description:	Example SMS command response:
1234 Output 1 Status	123456 = User Code. User Output 1 status check.	OUTPUT ON or OUPUT OFF
123456 Output Garage-Door Status	123456 = User Code. Output Garage-Door status check.	OUTPUT Garage-Door ON or OUTPUT Garage-Door OFF
NOTE: The name of the output has to be one word and spelled exactly as written in the panel, such as: 'Garage Door' is not acceptable. It has to be written as 'Garage-Door' in the panel and the respective command will be 'Garage-Door'.		
Editing an SMS telephone number via SMS text command		
Example SMS command send:	Description:	Example SMS command response:
123456 Change 07777888999 07878888999	123456 = User Code. Change number 07777888999 to number 07878888999 NOTE: Use the country dialling code only for foreign SIM cards.	CHANGE 07878888999
Start Uploading/Downloading via SMS text command		
Example SMS command send:	Description:	Example SMS command response:
123456 UDL	123456 = User Code. UDL = The Enforcer will make an outgoing data connection to the programmed PC1 number.	No response as the panel is already connected to the PC1
9999 UDL	9999= Engineer Code UDL = The Enforcer will make an outgoing data connection to the programmed PC1 number.	No response as the panel is already connected to the PC1

Appendix 4 - Factory Defaults

Engineer Menu	Sub-Menu	Defaults	
		2000	2002 Differences
INHIBIT FIRE/HU?	Inhibit Fire/HU	No [0]	
SET DATE & TIME?	Year (00-99)	[07]	
	Month (1-12)	[01]	
	Day (1-31)	[01]	
	Hours (0-23)	[00]	
	Minutes (0-59)	[00]	
	DST Adjust?	No [1]	
WIRELESS DEVICE CONTROL?	Inputs 9 - 32	Available	
	Bells 1 - 2	Available	
	Arming Stations 1 - 4	Available	
CHANGE INPUTS?	Inputs 1 - 76	Unused	
	Input In Area	A	
	Input Areas	Any [0]	
	Input Attributes		
	Chime	No [0]	
	Omittable	No [0]	
	Double Knock	No [0]	
	Dual Trip	No [0]	
	Normally Open	No [0]	
	Walk Test	No [0]	
	Monitor Activity	No [0]	
	Special Log	No [0]	
	Confirm Group	[00]	
	Enter Name	Input ##	
	Enter Location	_	
CHOOSE MODE?	EOL Range	4K7/2K2 [1]	
	EOL Mode	DR [1]	
	Input Response	300ms [03]	
INSTALL ZEMs?	ZEM Address	[0]	
	ZEM Installed	No [0]	
CHANGE OUTPUTS?	Endstation Outputs?		
	BELL O/P	Siren Any [0014]	
	STB O/P	Strobe Any [0016]	
	PGM O/P	Not Used [0000]	
	XPGM1 O/P	Not Used [0000]	
	XPGM2 O/P	Not Used [0000]	
	ATE Pin 1	Fire [0001]	
	ATE Pin 2	HU Device Any [0009]	

Engineer Menu	Sub-Menu	Defaults	
		2000	2002 Differences
	ATE Pin 3	Unconfirmed Any [0018]	
	ATE Pin 4	Final Set All [0004]	
	ATE Pin 5	Tamper Any [0007]	
	ATE Pin 6	Omit Rearm Any [0017]	
	ATE Pin 7	Confirmed Any [0006]	
	ATE Pin 8	Mains Fail [0052]	
	ATE Pin 9	Global Fault 2 [0056]	
	ATE Pin 10	Test ATS [0064]	
	ZEM Outputs?		
	ZEM Address	[0]	
	Output 1 - 4	Not Used [0000]	
	Wireless Bells		
	BELL O/P	Siren Any [0014]	
	STB O/P	Strobe Any [0016]	
	OP Module Address		
	OP Mod Installed	No [0]	
	Keypad Outputs		
	Output 1	Not Used [0000]	
	Reader Outputs		
	Outputs 1 - 2	Not Used [0000]	
	User Outputs		
	User Output No	[01]	
	User Output Type	Latched [0]	
	User Output Name	_	
CHANGE TIMERS?	Entry Time	[030] (seconds)	
	Entry Time 2	[030] (seconds)	
	Exit Time	[030] (seconds)	
	APP Exit Time	[030] (seconds)	
	Siren Time	[15] (minutes)	
	Siren Delay	[00] (minutes)	
	Confirm Time	[30] (minutes)	
	HU Confirm Time	[08] (hours)	
	Strobe Time	[00] (minutes)	
	Re-Arm No.	[3]	
	AC Signal Delay	[040] (minutes)	
	Settle	[005] (seconds)	
	Double Knock	[10] (seconds)	
	Pre-Alarm	[030] (seconds)	
	Comms Fault Delay	[030] (seconds)	[020] (seconds)
	Set Fail	[040] (seconds)	

Engineer Menu	Sub-Menu	Defaults	
		2000	2002 Differences
	Guard Code Alarm	[03] (minutes)	
	Fire Siren Time	[99] (minutes)	
	Set Fail Warning	[00] (minutes)	
	Input NAT Days	[14] (days)	
	Input NAT Hours	[00] (hours)	
	Wireless Supervision Time	[02] (hours)	
	Wireless Jamming Time	[100] (seconds)	
	Service Time	[000] (days)	
CODES AND USERS?	5 digit PINs?	Yes [1]	No [0]
	Change Duress Codes?	1: Guard/Duress, 2-9: Empty, 10: Code	
	Change Master Manager Code	*2222*	
	User Areas	[01ABCD]	
	User Set Options	Unset / Set [0]	
	Flexi Set	Yes [1]	
	User Name	_	
	Change Engineer Code	1111	
VOLUME CONTROL	Entry	[4]	
	Exit	[4]	
	APP Exit	[4]	
	Alarm	[7]	
	Fire	[7]	
	Tamper	[6]	
	Day Alarm	[6]	
	Chime	[3]	
	Intelligent Set	[1]	
	Code Stops Sound	Yes [1]	
	E/E Keypads Only	No [0]	
	Alert Kps Only	Yes [1]	
	Silent Tech Alert	No [0]	
SYSTEM OPTIONS	Site Options?		
	Set with Fault	Yes [1]	
	Set with Tamper	No [0]	Yes [1]
	Set with ATS Fault	No [0]	Yes [1]
	Set Ward T(Tech)Fault	Yes [1]	
	Set Fail = Alarm	No [0]	
	Do Bat Load Test	No [0]	
	Strobe/Sqwk At Set	None [0]	
	Re-Arm Omits	No [0]	
	Use Level Set	No [0]	

Engineer Menu	Sub-Menu	Defaults	
		2000	2002 Differences
	Confirmed When	Final Set [0]	
	Autoset Force	No [0]	
	Restrict PIN Use	No [0]	
	Simple Set?	No [0]	
	Intelligent Set?	No [0]	
	Invert ATE O/Ps	Yes [1]	
	Common Lobby	Yes [1]	
	Flexi Unset?	No [0]	
	2 Key HU	None [3]	
	External ATE Inputs	None [3]	
	Tag Opens Doors?	No [0]	
	Set With Poll Fail	No [0]	
	Fob Unset Entry?	Yes [1]	
	Wireless Bell Supervision?	Yes [1]	
	Download If Set	No [0]	
	Cloud Priority	Low [1]	
	System Displays		
	Area A,B,C,D,0,1 Text	Area #	
	Full Area Text	Full	
	Sign On Message	Euro 46	
	Display When Set	No [0]	
	Display Alarms	No [0]	
	Display HUs	No [0]	
	Display Inputs	No [0]	
	Exit Modes?		
	A Exit Mode	Final Door [1]	
	B,C,D, 0, 1 Exit Mode	Timed [0]	
REVIEW LOGS	Panel Log		
	Access Log (access control)		
ENGINEER TESTS	Sound to play	No Sound [00]	
	Walk Test Areas	[01ABCD]	
	Walk Test Inputs	Input 01	
	Soak Control?		
	Soak Inputs	[--]	
	Soak Days Left	[00]	
	Initial Soak	[00]	
	Test Siren		
	Do Battery Load Test		
	Test Outputs	OP Test [0000]	
	Test Communications		

Engineer Menu	Sub-Menu	Defaults	
		2000	2002 Differences
	Fetch Time		
DIAGNOSTICS	Wireless Devices		
	Wired Devices		
	Communications		
ENGINEER RESTORE OPTIONS	Engineer Restore Intruder	No [0]	
	Engineer Restore HU	No [0]	
	Engineer Restore Tamper	Yes [1]	No [0]
	Engineer Restore Soak	No [0]	
	Engineer Restore Confirm	Yes [1]	No [0]
	Engineer Restore Faults	No [0]	
	Anti-Code Restore	No [0]	
COMMUNICATIONS	App Set Up		
	Use App	No [0]	
	System ID	#######	
	Cloud Password	_	
	Security Level	Normal [0]	
	App Password	_	
	Always Poll Cloud	No [0]	
	Data Network Set Up		
	Program GPRS		
	Program LAN		
	Program WiFi		
	Program Signalling?		
	ARC Details	[1]	
	Format	Not Used [254])	
	Valid Areas	[01ABCD]	
	Area Accounts	No [0]	
	ARC Account	_	
	Redials	[03]	
	Time Out	[30]	
	Test Calls	No [0]	
	Event Types	Default [0]	
	Sign Up To ARC?		
	Program Digi Channels?		
	Digi 01	Fire [0001]	
	Digi 02	HU Device Any [0009]	
	Digi 03	Unconfirmed Any [0018]	
	Digi 04	Final Set All [0004]	
	Digi 05	Tamper Any [0007]	
	Digi 06	Omit rearm Any [0017]	

Engineer Menu	Sub-Menu	Defaults	
		2000	2002 Differences
	Digi 07	Confirmed Any [0006]	
	Digi 08	Mains Fail [0052]	
	Digi 09	Global Fault 2 [0056]	Global Fault 1 [0055]
	Digi 10	Test ATS [0064]	
	Digi 11	Not Used [0000]	
	Digi 12	Not Used [0000]	
	Digi 13	Not Used [0000]	
	Digi 14	Not Used [0000]	
	Digi 15	Not Used [0000]	
	Digi 16	Not Used [0000]	
	User SMS Signalling		
	SMS Details	[01]	
	Mobile No.	_	
	Valid Areas	[01ABCD]	
	Redials	[03]	
	Time Out	[30]	
	Test Calls	No [0]	
	Event Types	Default [0]	
	User SMS Common Message?	Alarm System	
	SMS Control Enable?		
	SMS Set	No [0]	
	SMS Unset	No [0]	
	SMS Status	No [0]	
	SMS Output	No [0]	
	SMS Number Edit	No [0]	
	SMS Start UDL	No [0]	
	Advanced Communications?		
	Program PCs	[1]	
	Modem Tel No		
	Signal Alarms	No [0]	
	Signal Faults	No [0]	
	Signal Set/Unset	No [0]	
	Signal Access C(Control).	No [0]	
ALARM RESPONSE?	Silent 1st Alarm	Never [0]	
	Disable Confirm On Entry	No [0]	
	Area A, B, C, D, 0, 1 Starts at	Digi [3]	
	Area A, B, C, D, 0, 1 Stops at	Confirm [4]	
	Fire Starts at, Stops at	Digi [3]	
	Gas Starts at, Stops at	Digi [3]	

Engineer Menu	Sub-Menu	Defaults	
		2000	2002 Differences
	HU Starts at	Digi [3]	
	Hu Stops at	Confirm [4]	
	Medical Starts, stops	Digi [3]	
	Day alarm starts, stops	Sirens Only [2]	
	Start at, Stop at	Digi [3]	
	If area set	[------]	
SET UP DOWNLOADING?	Download by	None [0]	
	Security Level	Normal [0]	
	Always Poll Cloud	No [0]	
	Roving Dial	No [0]	

Appendix 5 - Event Types (SIA and Contact ID codes)

Event	SIA code	CID code	Event Type Number	Default 1 (ARC) Full Reporting	Default 2 (ARC) No Arm/ Disarm	Default 3 (ARC) No Arm/ Disarm and Alarm Restores	Default (SMS)
SET							
Auto Set	CA	3403	1	on			
Forced Set	CF	3401	1				
Set	CL	3401	1				
UNSET							
Unset	OP	1401	2	on			
Auto Unset	OA	1403	2				
(Special Set/Unset) SET/UNSET WITH CODES 15 to 25							
Special Unset	OP	1401	3				on
Special Set	CL	3401	3				
SUBAREA / SHUNT SET/UNSET							
Sub-Area Set	CG	3402	4	on			
Shunt Closed		1402	4				
Sub-Area Unset	OG	1402	5				
Shunt Opened		3402	5				
INTRUDER ALARM							
Intruder Alarm	BA	1130	7	all	all	all	once
Gas Alarm	GA	1151	7				
Entry/Exit alarm	BA	1134	7				
No Zone Activity - Sent	NA	1680	7				
Day Alarm	BA	1133	7				
Perimeter Alarm	BA	1131	7				
Keybox/Guard Zone Alarm		1250	7				
Flood Alarm	WA	1154	7				
Interior Alarm	BA	1132	7				
INTRUDER RESTORE							
Intruder Restore	BH	3130	9	all	all		
Gas Restore	GH	3151	9				
Entry/Exit Restore	BH	3134	9				
Day alarm restore	BH	3133	9				
Interior Alarm Restore	BH	3132	9				
Perimeter Restore	BH	3131	9				
Keybox Restore		3250	9				
Flood Alarm Restore	WH	3154	9				
Ward Alarm Restore	BH	3130	9				

Event	SIA code	CID code	Event Type Number	Default 1 (ARC) Full Reporting	Default 2 (ARC) No Arm/ Disarm	Default 3 (ARC) No Arm/ Disarm and Alarm Restores	Default (SMS)
FIRE ALARM							
Fire Alarm	FA	1110	10	on	on	on	on
Fire key pressed	FA	1110	10				
FIRE ALARM RESTORE							
Fire Alarm Restore	FH	3110	11	on	on		
Fire key Restore	FH	3110	11				
HU ALARM							
Duress Code	HA	1121	12	on	on	on	on
Keypad PA	PA	1120	12				
Radio fob PA	PA	1120	12				
HU Alarm	PA	1120	12				
Silent HU	HA	1122	12				
HU ALARM RESTORE							
HU Restore	PH	3120	13	on	on		
Silent HU Restore	HH	3122	13				
Keypad HU Restore	PR	3120	13				
MEDICAL ALARM							
Medical Alarm	MA	1100	14	on	on	on	on
MEDICAL RESTORE							
Medical Alarm Restore	MH	3100	15	on	on		
SUB-AREA ALARM/RESTOR							
Ward Alarm	BA	1130	16	on			
TAMPER ALARM							
Invalid Tag	JA	1461	17	all	all	all	
RS485 Fault	IA	1300	17				
Device Fail	ET	1333	17				
Tamper Alarm	TA	1137	17				
Tamper On Zone	TA	1144	17				
Code Guessing	JA	1461	17				
Case Tamper	TA	1137	17				
Siren Case Tamper	TA	1321	17				
Radio Tamper	TA	1337	17				
TAMPER RESTORE							
Tamper (Wired/Wireless) Restore	TH	3137	18	all	all		
Tamper On Zone Restore	TH	3144	18				
Case Tamper Restore	TR	3137	18				
Siren Case Tamper Restore	YH	3321	18				

Event	SIA code	CID code	Event Type Number	Default 1 (ARC) Full Reporting	Default 2 (ARC) No Arm/ Disarm	Default 3 (ARC) No Arm/ Disarm and Alarm Restores	Default (SMS)
OMIT							
Zone Omitted	BB	1570	19	on	on	on	
Zone Force (Omitted) Set		1570	19				
Fire Zone Omitted	FB	1571	19				
Day Alarm Zone Omitted	BB	1572	19				
RESTORE OF OMIT							
Fire Zone Omit Restore	FU	3571	20	on	on		
Day Alarm Zone Omit Restore	BU	3572	20				
Zone Omit Restore	BU	3570	20				
TECHNICAL							
Low Volts	AT	1302	21	on	on	on	
Battery Disconnect	YT	1311	21				
Battery Load Fail	YT	1309	21				
Fuse 1	IA	1300	21				
Fuse 2	IA	1300	21				
Fuse 3	IA	1300	21				
Fuse 4	IA	1300	21				
Fuse 5	IA	1300	21				
Fuse 6	IA	1300	21				
Fuse 7	IA	1300	21				
Fuse 8	IA	1300	21				
Battery Critical	YT	1302	21				
Wired Siren Fault	YA	1320	21				
TECHNICAL RESTORE							
Battery Connect	YR	3311	22	on	on		
Device Restored	ER	3333	22				
Fuse fail restore	IR	3300	22				
Detector Fault Restore	BJ	3324	22				
Wired Siren Fault Restore	YH	3320	22				
AC MAINS MISSING/RESTORE							
Mains Fail Fault	AT	1301	23	on	on	on	on
Restore of Mains Fault	AR	3301	23				

Event	SIA code	CID code	Event Type Number	Default 1 (ARC) Full Reporting	Default 2 (ARC) No Arm/ Disarm	Default 3 (ARC) No Arm/ Disarm and Alarm Restores	Default (SMS)
WIRELESS ALARM/RESTORE							
Radio low battery	XT	1384	24	on	on	on	
Radio supervision failure	UY	1381	24				
Radio hub jamming	XQ	1344	24				
Radio hub jam restore	XH	3344	24				
Radio Jamming restore	XH	3344	24				
Radio Supervision restore.	UJ	3381	24				
Radio low battery restore	XR	3384	24				
TELECOM STATUS							
Modem Failed		1330	25				
Modem Communication Fail		1350	25				
Input Line Fail	LT	1351	25				
Telecom Line Fault	LT	1351	25				
Input Line Restored	LR	3351	25				
Telecom Line Restored	LR	3351	25				
ACCESS CONTROL							
Door Left Open	DL	1426	26	on			
Door Forced	DF		26				
MASK ALARM/RESTORE							
Detector Masked	BT	1324	27	on	on	on	
Detector Masked Restore	BJ	3324	27				
SPECIAL LOG							
Zone Special Log Opened	UA	1146	28				
Zone Special Log Closed	UR	3146	28				
Zone Special Log Switcher Opened	UA	1146	28				
Zone Special Log Switcher Closed	UR	3146	28				
ALARM SILENCED							
Alarm Silenced	OR	1406	29		on		
Sub-Area Alarm Silenced	OG	1402	29				
TECHNICAL ALARM SILENCED							
Technical Alarm Silenced	OR	1406	30				
Technical Alarm in Sub-Area Silenced	OG	1402	30				

Event	SIA code	CID code	Event Type Number	Default 1 (ARC) Full Reporting	Default 2 (ARC) No Arm/ Disarm	Default 3 (ARC) No Arm/ Disarm and Alarm Restores	Default (SMS)
INFORMATION							
Engineer Access	LB	1627	31				
Engineer Exit	LX	1628	31				
System Restart		1305	31				
Logs Cleared		1621	31				
Engineer Reset	RN	3313	31				
Clean Started		1305	31				
Site Changed	YG	1306	31				
Logs nearly full		1623	31				
Input Walk Tested		1607	31				

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