ENFORCER V11

PROGRAMMING GUIDE

Document SAP: 102028847-02

DOCUMENT CONVENTIONS

TERMINOLOGY

INTERCHANGEABLE WORDS	DESCRIPTION
Armed, set	When an area or level is armed, if a zone is triggered, the system will follow the appropriate (programmable) actions.
Disarmed, unset	When an area or level is disarmed, the panel will not react unless specifically programmed to do so.
Siren, sounder, bell	A warning device (usually external) that is generally configured to give audible and visual notification that the system has been activated.
Area, partition	A group of zones assigned to be active when that particular area is armed. This is usually named 'Area A' or renamed to a personal choice such as 'Full Set' or 'Shop'.
Zone, input	This refers to a detector or sensor connected to the system, whether this be wired or wireless.
Output, PGM, PG	An output is a signal from the panel to instruct another device to operate. This is usually a voltage that triggers a wired siren, a garage door, a wireless siren etc.
Bypass, omit	The act of stopping a zone from becoming armed. A wired zone will still detect an intruder or object but the system will not react to it - a wireless zone will become dormant.

ICONS

Important information
This information should be read and taken into consideration when installing. Failure to do so may result in faults and unexpected errors with the system and or peripherals.

Notes
Highlights parts of the process where extra care is needed or where sections of the programming may be impacted by other options in the menus.

Hints
Helpful information for a smoother installation of the system.

CONTENTS

DEFAULT CODES

ACCESS CODES

User Code

'Blank'

Master Manager Code

2222

Engineer

1111

CLEAN START CODES

Clean start with the code '2000' (UNGRADED)

Clean start with the code '2020' (Grade 2)

Hint: For information on the system clean start defaults, see "Appendix A - Defaults" on page 44

OTHER CODES

Keypad Security Code

2000

Delete All Wireless Data

2000

ENGINEER MENU NAVIGATION

The Engineer Menu must be accessed in order to program all system configurations.

Please note
1. All tamper alarms (including case tamper), will be disabled once in the Engineer Menu.
2. All personal attack and fire alarms will not cause an alarm in the Engineer Menu.

ACCESSING THE ENGINEER MENU

Access to the Engineer Menu will be allowed if the system is disarmed. If armed, the system must be disarmed first via a valid user code, tag or keyfob in order to gain access. If the '**Allow Engineer Menu**' function in the Master Manager Menu is set as 'No', the message 'Authorisation Required' will be shown and access will be denied until this option is set as 'Yes'.

1. Enter the Engineer code (default 1111).
2. If any faults that are active, they will be displayed now on the screen. Press [NO] and enter the Engineer code again.
3. '**SET DATE & TIME?**' is displayed.
4. Engineer Menu has been accessed.

When the Engineer Menu is accessed, a high pitch tone is generated intermittently.

IMPORTANT NOTE: It is essential that a factory default (clean start) is performed after initial power up to ensure that the correct defaults have been chosen.

NAVIGATION

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.

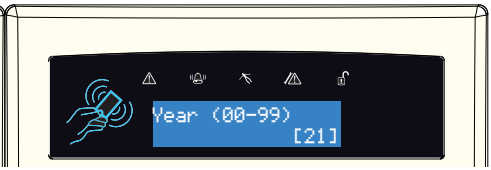
YES = 'YES' - Press to enter into a sub-menu or option when in Engineer or Master Manger mode.

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:

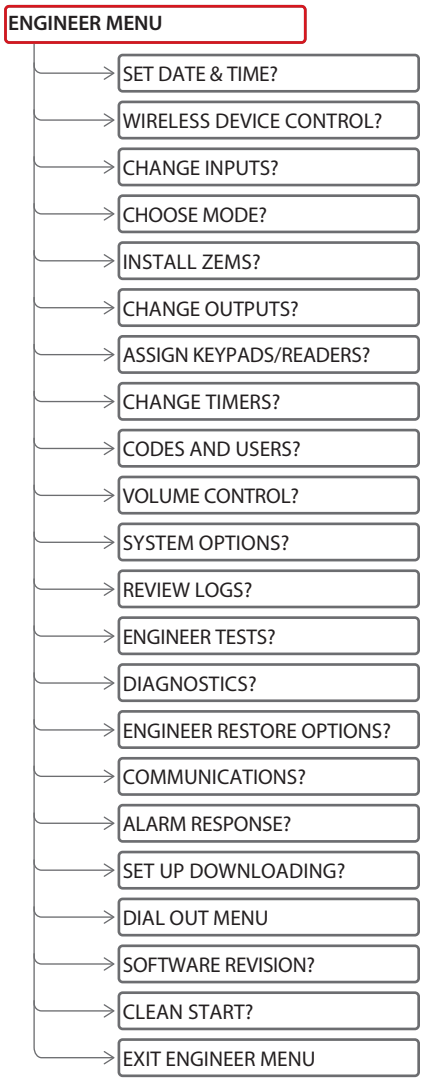
- The menu item will be in lower case letters

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.

EXITING THE ENGINEER MENU

When a Main Menu Item (a menu that is in capital letters) is displayed, press A or scroll to '**EXIT ENGINEER MENU?**' and press YES.



Set date and time

Programs the date and time

"Set Date & Time" on page 12

Wireless device control

Learns and deletes all wireless zones, bells and arming stations.

Hint: Wireless keyfobs are learnt to the system in the Master Manager Menu.

"Wireless Device Control" on page 12

Change inputs

Programs all zone types, attributes, areas and names.

"Change Inputs" on page 16

Choose mode

Configures the resistance range, EOL mode and response time of the wired zones.

"Choose Mode" on page 19

Install ZEMs

Programs zone expansion modules (ZEMs) to the system.

"Install ZEMs" on page 19

Change outputs

Programs any outputs and assigns output modules on the system.

"Change Outputs" on page 20

Assign keypads and readers

Assigns wired/wireless keypads and readers, and enables readers for entry control.

"Assign Keypads/Readers" on page 21

Change timers

This function controls all timers on the system.

"Change Timers" on page 24

Codes and users

Changes the 'Engineer code', 'Master Manager code' and 'Duress codes'.

Hint: User codes are edited in the Master Manager menu.

"Codes And Users" on page 25

Volume control

Alters volume levels of the loudspeaker only. Volume levels of keypads are programmed individually in the keypad menu.

"Volume Control" on page 26

System options

Contains sub-menus for configuring options such as how the system will operate day-to-day and system displays.

"System Options" on page 27

Review logs

View system events which are time and date stamped.

"Review Logs" on page 30

Engineer tests

Allows the engineer to test zones, outputs, batteries and the siren etc.

"Engineer Tests" on page 31

Diagnostics

Displays power, zone status, wireless arming stations, wireless signal strength and wireless battery levels.

"Diagnostics" on page 34

Engineer restore options

Configures which events can be reset by the user and which require an engineer.

"Engineer Restore Options" on page 37

Communications

Configures the signalling and smart device control of the system.

"Communications" on page 38

Alarm response

Controls how the system responds in certain situations such as confirmed activations.

"Alarm Response" on page 38

Set up downloading

Allows the system to be accessed remotely via upload/download software.

"Set Up Downloading" on page 41

Dial out menu

Used to dial out to pre-programmed upload/download software PCs.

"Dial Out Menu" on page 42

Software revision

This option identifies all software revisions.

"Software Revision" on page 43

Clean start

Wipes all the data from the panel and reverts back to pre-defined factory configuration.

"Clean Start" on page 43

Exit engineer menu

Exits the menu and returns to day mode.

"Exit Engineer Menu" on page 43

GENERAL INFORMATION

Default Codes

Engineers
1111

Master Manager
2222

User
'Blank'

INITIAL POWER UP

Power up the system and an alarm will be generated. Proceed to the on-board keypad, which will display:

1. Once power has been applied to the system, 'Please Wait' will be displayed, followed by '485 Comms Lost'. After approximately 1 minute, the system will display the time (00:00), indicating the system is ready to use.
2. The on-board keypad is defaulted to keypad address '0'.

Testing the keypad

With the system disarmed, press the **B** key for 5 seconds at any keypad. This will cause all the LEDs on that keypad to illuminate, and the LCD screen to display each pixel. The keypad will revert to normal display after the test which will last about 10 seconds.

Keypads

Three additional wired keypads may also be connected to the system for arming/disarming, programming and entering text.

For help navigating menus, please see "Navigation" on page 6.

Hint: If any additional keypads are installed on the system, it is possible to access the Engineer Menu on any keypad. For example, if the Engineer menu is accessed on keypad address 0, the other keypads will display 'System Busy'. To access the Engineer menu on any other keypad, press the [B] key on the relevant keypad and the Engineer menu will be displayed.

Please note: Four wireless keypads can be connected to the system.

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 zones to the keypad terminals.

Key-click volumes

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

Configures how long the HU and Fire buttons have to be pressed for before an alarm is generated.

Text programming

On the system it is possible to label items such as the following:

- Zones – Two labels; zone name and location
- Area names
- Site name
- Keypad/reader – Two labels; keypad description and location
- Zone 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.

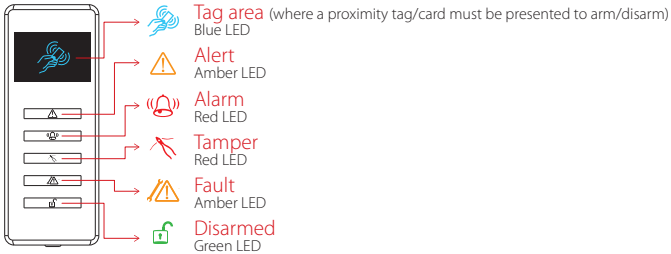
Hint: To type a word, press the relevant button the appropriate number of times – e.g. for the letter 'k' press [5] two times, or for the letter 's' press [7] four times. For punctuation marks, press the [1] button multiple times until the desired character is shown.

Misc button typing

BUTTON	TEXT FUNCTION
[A]	Toggles between upper and lower case characters
[B]	Moves cursor left
[C]	Clears letters / adds a space
[D]	Moves cursor right
[◀] [▶]	Moves the cursor left and right

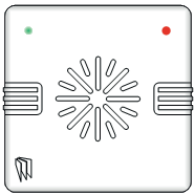
The internal tag reader

The Internal tag reader can be used for arming/disarming, entry control or access control. Refer to the installation manual for all connections.



The external proximity reader

The external proximity reader can be used for arming/disarming, entry control or access control. Refer to the installation manual for all connections.



To arm/disarm the system using the external proximity reader, present a pre-programmed tag to the centre of the unit.

The unit will display the system status:

- Green indicates the system is disarmed.
- Red indicates the system is armed.

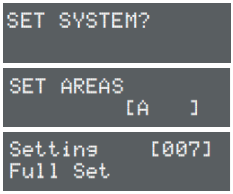
Present the tag again within 10 seconds to arm or disarm the system.

Please note: The system will arm depending on the type of exit mode programmed (final door, timed or push to set)

Engineer arm system

Arming and disarming the system can be done using the Engineer code.

1. Press [D].
2. Enter the Engineer code (default 1111).
3. Press [NO] if any faults appear.
4. '**SET SYSTEM?**' is displayed.
5. Press [YES]
6. Select the areas to set. Press [YES]
7. The arming period will begin.
8. Once the timer expires, and a beep is heard, the area is armed.
9. To disarm, enter the Engineer code again.

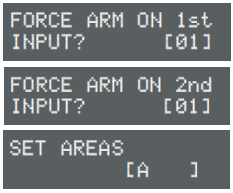


Engineer forced arm on inputs

The 'Force Arm On Inputs' function enables two nominated zones on the system to be set. Either zone can be triggered to allow real life signalling or alarm testing. This function is useful when a building is full of people and these tests are needed.

Please note:
1. The system will give the correct signalling response to the arming, and any resulting alarm.
2. If the system has been armed by any other code, the Engineer code will not disarm it.

1. Press [D]
2. Enter the Engineer code (default 1111).
3. Press [NO] if any faults appear.
4. '**SET SYSTEM**' is displayed.
5. Press [NO]
6. '**FORCE ARM ON 1st INPUT**' is displayed.
7. Enter the 1st zone that is to be active. Press [YES]
8. Enter the 2nd zone that is to be active. Press [YES]



Please note: If a Final Exit zone is selected, once activated this will start the entry time and not immediately trigger the alarm.

9. Select the areas to set. Press [YES]
10. The arming period will begin
11. Once the timer expires, and a beep is heard, the system is armed and the 2 zones chosen will be active.
12. To unset, enter the Engineer code again.

THE ENGINEER MENU

IMPORTANT NOTE: Any programming is only saved when exiting the Engineer menu. It is essential that a 'CLEAN START' is performed after initial power up.

SET DATE & TIME

SET DATE & TIME?

All log entries are date and time stamped. This can also programmed in the Master Manager Mode. The time is also shown on the LCD in 'Day Mode'.

Please note: Powering down the system will reset the time and date information unless communications are configured and the system reconnects to the data path on power up.

Change year

For the year 2021, enter 21.

Change month

For March, enter 03.

Change day

For 31st, enter 31.

Change hours

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

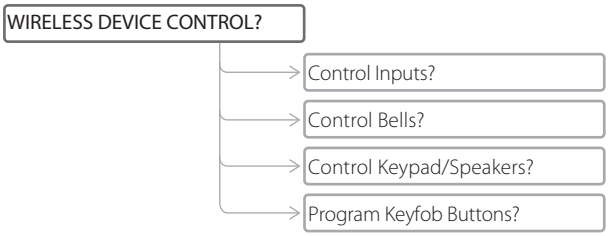
Change minutes

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



Without any wired or wireless expanders added to the system, a maximum of 32 wireless zones, 32 wireless keyfobs, 2 wireless external bells and 4 wireless arming stations are supported.

Hint: Adding a wireless expander can increase the number of wireless zones to 64 but will not increase the number of keyfobs, bells and arming stations permitted.

CONTROL INPUTS?

Learn devices?

This menu starts the procedure of learning wireless zones onto the system.

Input

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

Learning…

Open the wireless device.

Remove the plastic insulation to enable the battery.

If the device is not learnt, the GREEN and RED LEDs on the device will flash (alternating).

Press and hold the 'learn' button on the device and all three LEDs start cycling BLUE, GREEN and RED.

Release the 'learn' button. If successful, 'Input Learnt' will be displayed on the keypad and a confirmation tone will be emitted.

If that zone has already been learnt, 'Input learnt already' will be displayed.

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

Delete devices?

Already learnt zones may be deleted from this menu.

Delete all

To delete all wireless zone devices, enter '2000'. 'Please wait' will be displayed while the system deletes all the learnt wireless zones.

Choose input to delete

This option deletes only a specific wireless device learnt to a zone. Any zones 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…

Open the wireless bell.

Plug the battery connector into the battery terminal.

If a device is not learned, the GREEN and RED LEDs on the device will flash (alternating).

Press and hold the 'Learn' button on the device and all three LEDs start cycling BLUE, GREEN and RED.

Release the 'Learn' button. If successful, 'Bell Learnt' will be displayed and a confirmation tone on the panel will be emitted.

If a siren has already been learnt, 'Bell learnt already' will be displayed.

Delete devices

Already learnt sirens may be deleted by entering this menu.

Delete all

To delete all wireless bells enter '2000'. 'Please wait' will be displayed while the system deletes them.

Select bell to delete

This option deletes only a specific wireless bell that is learnt. Any bell that displays 'learnt' can be deleted. 'Please wait' will be displayed while the system deletes the wireless bell. Return to this process to delete more devices.

Control Keypad/Speaker?

Wireless Arming Station functions are programmed in the '**ASSIGN KEYPADS/READERS?**' menu and are mapped as:

Kpd/Spk #1 : Address [4] Kpd/Spk #2 : Address [5]

Kpd/Spk #3 : Address [6] Kpd/Spk #4 : Address [7]

For the wireless arming station options, please see "Keypad / Speaker Options" on page 23.

Learn devices?

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

Select keypad / speaker

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 keypad / speaker ⇨ Learning…

Open the wireless arming station.

Plug the battery connector into the battery terminal.

If a device is not learned, the GREEN and RED LEDs on the device will flash (alternating).

Press and hold the 'LEARN' button on the device and all three LEDs will start cycling BLUE, GREEN and RED.

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.

Please note: For speaker/sounder unit learning instructions, please refer to the document provided with the unit.

Delete Devices

Arming Stations and speaker/sounders 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 system security code). 'Please wait' will be displayed while the system deletes them.

Select keypad / speaker to delete

This option deletes only a specific wireless arming station or speaker/sounder that is learnt. Any addresses that display 'learnt' can be deleted. 'Please wait' will be displayed while the system deletes the device. Return to this process to delete more devices.

This menu is used to program the functionality of the buttons on the key fobs.

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.

Program keyfob buttons

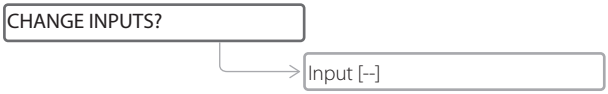
1. Press [B] or [NO] to scroll to '**WIRELESS DEVICE CONTROL**'. Press [YES].
2. '**Control Inputs**' will be displayed. Press [NO].
3. '**Control Bells**' will be displayed. Press [NO].
4. '**Control Keypads/Speakers**' will be displayed, press [NO].
5. '**Program Keyfob Buttons**' will be displayed. Press [YES].
6. Press [◄] or [►] to select the user (1-80) and press [YES].
7. Press [◄] or [►] to select the button to be programmed and press [YES].
8. Press [◄] or [►] to select the action of the button and press [YES].
9. Select the area that the keyfob should be programmed in, press [YES].

Hint: Panic alarm (function option 6) must be allocated to two buttons pressed together (I + II recommended, button option 6) and can only be programmed in the Engineer Menu.

Please note: Keyfobs are learnt in the Master Manager Menu under 'EDIT USERS'.

Hint: Using the output types 170-199 (User Defined), outputs can be activated by the keyfob buttons and can be programmed in '**CHANGE OUTPUTS?**'.

CHANGE INPUTS



A total of 66 zones can be programmed on the system. All zones are unused by default. To save any programming the Engineer menu must be exited.

INPUT TYPES

For all input type options, please see "Appendix B - Input Types" on page 51.

Most commonly used input types:

- [06] Intruder
- [07] Final Exit
- [08] Entry Route
- [13] Day Alarm.

Please note:
1. If an alarm is triggered from an Entry Route zone, it will be stored for 2 seconds before an alarm is activated. If a Final Exit zone is triggered within this time, the system will start the entry time, rather than an intruder alarm.
2. Zones may be automatically omitted at the time of reinstatement, which is at the end of confirmation time. This is irrelevant of whether the zone has the attribute 'Omittable' set to 'Yes' or 'No'

INPUT AREAS

The system supports up to four areas and could be used as follows:

- Area A: All Factory
- Area B: Reception Only
- Area C: Offices Only
- Area D: Factory Floor Only

Input Area (Any/All)

In some installations a 'common' area may be required. A common area is an area that only arms when other specific areas become armed. Example: An entry and exit reception area in a building may only need to be armed if both the offices and warehouse are armed. If the office in Area A is armed, 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 zone can be allocated to one or more areas. In this example the zones located in the reception area will be programmed so that the reception zones will be in Area A and Area B, so these zones must have the Input Areas attribute set as 'ALL' programmed.

Area A: Office - Zones = 3, 4, 5 Area B: Warehouse - Zones = 6, 7, 8

Reception zones – 1 and 2 are programmed into both Areas A and B, with both zones' Input Areas attribute configured as 'ALL'. The Reception area zones will now only become active if both Area A and Area B are both armed.

Please note: All zones in a common area must be programmed as 'Entry Route' or 'Final Exit' and the 'Common Lobby' option in Site Options needs to be enabled.

Chime

The internal sounder will sound a chime if enabled.

Single
Chimes once when the zone is triggered.

Follow
Chimes when the zone is triggered and only stops once the zone is inactive. To enable/disable the chime in day mode press [C], when a 'c' is displayed on the keypad, the chime is enabled.

Omittable

Enables the zone to be manually omitted from the arming procedure.

Double knock

The system will only generate an alarm if this zone is triggered twice within a pre-set period, or if the zone remains in fault condition for that period.

For the double knock timer, see "Change Timers" on page 24.

Normally open

Enables the system to respond correctly when detectors of 'normally open' configuration are programmed to the system. Alternatively converts input types which default to 'normally open' (e.g. Push to set) to operate with normally closed devices.

Occupancy

If enabled, and the zone is not triggered before the timer expires, then the programmed action is taken. If the detector is triggered, timer is reset. The timer can also be programmed to be suspended when the area containing the zone is armed.

For the occupancy timer and arm suspension, see "Change Timers" on page 24.
To program the actions when the timer expires, see "Occupancy Zones" on page 29.

Monitor activity

Enables the zone to generate a internal alarm and a log entry if the zone does not detect any activity for a period specified by the NAT (Non Activity Time.)

For the NAT time, see "Change Timers" on page 24.

Special log

Forces a log entry when the zone is opened or closed, even when an alarm does not result. May be selected to apply when the system is set, when unset, or always.

Supervision

If enabled, the wireless zone is supervised to make sure it is still polling the system. If disabled, there will be no alert if this zone is out of signal range of the system or stops polling the system.

Confirm group

If zones are programmed into the same confirm group, multiple zones activated in the same confirm group will only generate an unconfirmed alarm signal. If two or more zones in different confirm groups are activated within the confirm time a confirm signal will be generated. 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 zones are not part of any group.

Hint: Zones programmed into Confirm Group '99' will never contribute to a confirmed alarm signal.

Input description and location

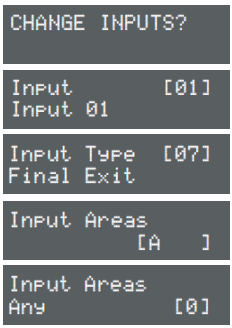
A name and location can be entered here. The name will appear on the display if an alarm has occurred; the location is used for a more detailed reference if required.

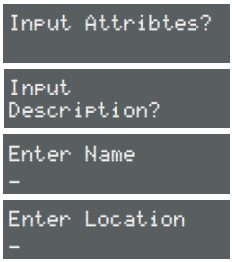
CHANGE INPUTS PROGRAMMING

1. Press [B] or [NO] to scroll to '**CHANGE INPUTS?**'. Press [YES].
2. Press [◄] or [►] to select the zone to program (01-66). Press [YES].
3. '**Input Type**' will be displayed. Press [◄] or [►] to select the input type or input the shortcut number. See "Appendix B - Input Types" on page 51.
4. Press [YES], '**Input Areas**' will be displayed. Select the areas to be assigned to the zone and press [YES].
5. '**Input Areas**' will be still be displayed, but this time the options are 'Any' or 'All'. Make a selection using then [◄] or [►] then press [YES].

Hint: In the vast majority of cases this must be programmed as "ANY". The 'ALL' attribute is only used for a common lobby/area scenario.

6. '**Input Attributes'** will be displayed. If any attributes are needed for the zone, press [YES] then press [◄] or [►] to select between the attribute enable/ disable options. Finally press [YES] to go to the next attribute.
7. '**Input Description**' will be displayed. Press [YES] to enter a name and location for this device or press [NO] to return to input selection.
8. '**Enter Name**' will be displayed. Enter the name of the zone and press [YES]. This will be displayed if it is activated or when a fault occurs.
9. '**Enter Location**' will be displayed. Enter the location of the zone and press [YES]. This will be displayed if it is activated or when a fault occurs after the name of the zone has been shown.
10. Press [◄] or [►] to select another zone to program (01-66) or press the [NO] key to return to the Engineer menu.





CHOOSE MODE

CHOOSE MODE?

If an I/O board or any Zone Expander Module (Input Expander or ZEM) are used, the resistance, EOL mode and response time of the zones can be programmed.

Please note: Alarm 4K7, Tamper 2K2 must be selected if wiring double pole to an expander.

End of Line (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.
[2] Wide range.

EOL Mode

EOL Mode programs all zone expanders 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 a zone trigger must be present before the system generates an alarm.

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

Please note: Settings above (>) 400ms do not comply with PD 6662 / EN 50131.

INSTALL ZEMS

INSTALL ZEMS?
→ ZEM Address [--]

The control panel supports up to a maximum 66 zones. Zone Expansion Modules (ZEMS) are used to expand the system to have a further 32 wireless zones, 32 wired zones or a combination of both. There are also 2 zones that can be used on an I/O Board if connected.

ZEM address

[0] ZEM Address 0 (Zones 35-42)
[1] ZEM Address 1 (Zones 43-50)
[2] ZEM Address 2 (Zones 51-58)
[3] ZEM Address 3 (Zones 59-66)

Please note: Zones 33 and 34 are taken from the I/O board, these do not need to be addressed.

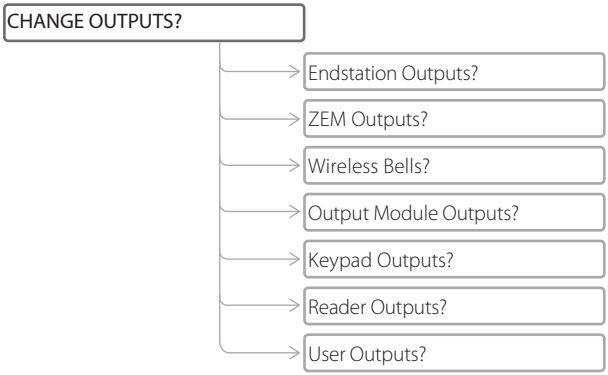
ZEM installed

[0] No
[1] ZEM8/EURO37R
[2] EURO-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. For example, the location text maybe "ZEM Kitchen", "ZEM Loft" etc.

CHANGE OUTPUTS



This function programs all output types, Any output type may be programmed to any of the system outputs, including any outputs for wireless bells. Wired outputs must be used within their rated capacity. Please see the installation manual.

Common output types

For all output type options, please see "Appendix D - Output Types" on page 54. Most commonly used output types are:

[0003] Intruder Any	[0006] Confirmed Any	[0014] Siren Any	[0016] Strobe Any
[0018] Unconfirmed Any	[0051] Line Fault	[0052] Mains Fail	[1###] Follow Input

Endstation outputs

This function programs the wired bell, strobe and PGM output on the I/O board if connected.

ZEM outputs

If a zone expander with additional outputs has been connected to the system, this function programs the outputs on each expander. The address of the expander is required for programming the outputs.

Wireless bells

At default, any wireless bells learnt to the system have the two outputs programmed as 'Siren Any' and 'Strobe Any'. These outputs can be programmed differently if required.

Output module outputs

If an output expander is connected to the system, it must be addressed in this function. All output programming is also done here. A maximum of 1 output expander can be connected to the system.

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 smart device app. The automated user outputs can be programmed (either latched or timed) along with a name for the output which will appear on the app or LCD screen.

Timed

A timed output will be active for a programmed period of time and then reset itself.

Latched

A latched output will stay active once triggered until it is manually reset.

Hint: 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.

Any additional keypads or readers must be addressed correctly before enabling them in this function. The On-board keypad is automatically addressed as 0 on initial power up. Refer to installation manual for more information.

Address

Up to three additional wired keypads or readers and four wireless arming stations can also be installed. Address 0 is used for the on-board keypad.

Please note: Each keypad has its own individual menu that programs the key-click volume, tag volume and master volume. It will address a keypad, show the status of the keypad zones (if connected), force the backlight on or off and show the identification number of a tag (once a tag is presented). The PA/Fire timer can be programmed in this menu and this is also where the keypad is addressed.

To enter the keypad menu, press and hold the [D] key until '**SECURITY CODE**' is displayed, and then enter '2000'. This function is also used to address the keypad.

Please note: Wireless arming stations are learnt to one of the four wireless arming station allocations on the system. However, are seen as addresses 4-7 in 'Assign Keypads and Readers'.

Type

[0] Keypad [1] Reader [2] Not Used.

Reader is

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

[0] Set Point
Reader used for arming and disarming.

[1] Not Used
Reader disabled

[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
If the Reader is to be used as an unset device only, select this type.

[4] Entry Control
Used to lock/unlock doors and arm/disarm the system. The external or internal reader can have magnetic locks connected to them. This option is used in conjunction with 'tag opens doors' in '**SITE OPTIONS**'. The lock open time and door open time can be programmed (in seconds).

For information on 'tag opens doors', see "Site Options" on page 27.

Set point sets

A 'Set Point' means that you can program the keypad/reader to arm certain areas only, and is used in conjunction with the areas allocated to a user code.

For example, if a user code is programmed to operate areas 'A' and 'B', but the keypad/reader is only programmed to arm area 'A', then the system will arm only area 'A'.

Selects the area that the device can arm and disarm.

Set point unsets

An 'Unset Point' means that you can program the keypad/reader to unset certain areas only. This is used in conjunction with the areas allocated to a user code/tag.

For example, if a user code/tag is programmed to operate areas 'A' and 'B', but the keypad/reader is only programmed to Unset area 'A', then the system will unset area 'A' only.

Set point in

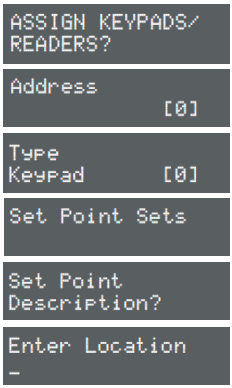
The device needs to also be told which Areas it is operating "in". For example, a keypad may only be needed to operate in Area A, but other code users may use the keypad to quick arm other Areas (such as a cleaner, director, caretaker etc). Therefore if Areas A and B are selected in the previous options (Arm point sets and unset), but Area A only is selected in 'Set point in', then Area B will quick arm once a valid tag/code has been entered. To program Areas operating with their programmed timer, then the Areas need to be entered into the "Set Point In" function.

Set point description

A name and location can be entered here. The name will appear on the display if an alarm has occurred, the location is used for a more detailed reference if required. E.g. Name = Entrance Keypad. Location = Hall

PROGRAMMING KEYPADS

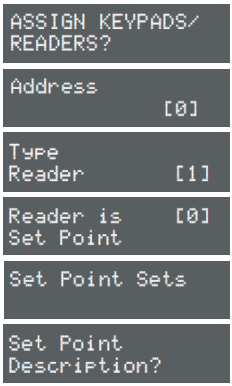
1. Press [B] or [NO] to scroll to 'ASSIGN KEYPADS/READERS'. Press [YES].
2. Press [◄] or [►] to select the address. Press [YES].
3. 'Type' will be displayed. Press [0] to select keypad. Press [YES]
4. 'Set Point Sets' will be displayed. Select the area(s). Press [YES]. Set Point Unsets' will be displayed. Select the area(s). Press [YES]. 'Set Point In' will be displayed. Select the area(s). Press [YES].
5. 'Set Point Description' will be displayed. Press [YES] to enter the name and location if required.
6. 'Enter Name' will be displayed. Enter the name of the keypad and press [YES].
7. 'Enter Location' will be displayed. Enter the location of the keypad and press [YES].
8. Press [◄] or [►] to select another device address to program (0-3) or press the [NO] key to return to the Engineer menu



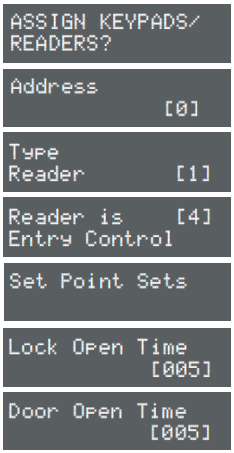
PROGRAMMING READERS

Set Point or Unset Only

1. Press [B] or [NO] to scroll to 'ASSIGN KEYPADS/READERS'. Press [YES].
2. Press [◄] or [►] 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]. Set Point Unsets' will be displayed. Select the area(s). Press [YES]. 'Set Point In' will be displayed. Select the area(s). Press [YES].
6. 'Set Point Description' will be displayed. Press [YES] to enter the name and location if required.
7. 'Enter Name' will be displayed. Enter the name of the keypad and press [YES].
8. 'Enter Location' will be displayed. Enter the location of the keypad and press [YES].
9. Press [◄] or [►] to select another device address to program (0-3) or press the [NO] key to return to the Engineer menu.



1. Press [B] or [NO] to scroll to '**ASSIGN KEYPADS/READERS?**'. Press [YES].
2. Press [◄] or [►] 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' Press [YES].
5. '**Set Point Sets**' will be displayed. Select the area(s). Press [YES]. '**Set Point Unsets**' will be displayed.
6. Select the area(s). Press [YES]. '**Set Point In'** will be displayed. Select the area(s). Press [YES].
7. '**Lock Open Time**' will be displayed. Enter the Lock Open Time in seconds and press [YES]. (Max 255 seconds).
8. '**Door Open Time**' will be displayed. Enter the Door Open Time in seconds and press [YES]. (Max 255 seconds).
9. '**Access Control Description**' will be displayed. Press [YES].
10. '**Enter Name**' will be displayed. Enter the name of the reader and press [YES].
11. '**Enter Location**' will be displayed. Enter the location of the reader and press [YES].
12. Press [◄] or [►] to select another device address to program (0-3) or press the [NO] key to return to the Engineer menu.



KEYPAD / SPEAKER OPTIONS

Tag read enable

Enables the proximity tag reader on the wireless arming station.

Auto wakeup

Keypad

Forces the device to automatically wake up when an entry time is initiated.

Please note: Must be enabled for the speaker/sounder.

Supervision

When enabled, the control panel will supervise the signal of the device.

Please note: Must be disabled for the speaker/sounder.

Back light

Toggles the LCD backlight on or off.

Entry/exit sound

Keypad

When enabled, and the device is awake, it will mimic the entry/exit tones of the panel.

Hint: To ensure the device always emits the entry/exit tones, 'Auto-Wakeup' needs to be enabled.

Speaker/sounder

Needs to be enabled for the device to emit entry and exit tones.

Set point sets

Enter the areas that the arming station is permitted to set.

Set points unsets

Enter the areas that the arming station is permitted to unset.

Set point in

Enter the areas that the arming station is located in.

Set point description

Enter a name and location for the arming station.

CHANGE TIMERS

CHANGE TIMERS?

This function controls all timers on the system.

COMMONLY USED TIMERS

For a list of all timers, see "Appendix C - Timers" on page 52. Most common programmed timers are:

Entry Time (0-255 seconds)	Exit Time (0-255 seconds)	Siren Time (2-15 minutes)
Confirm Time (1-99 minutes)	Wireless Supervision (0-99 hrs)	App Exit Time (0-199 seconds)

Please note: The timer for zones on 'Soak Control' is in the function 'ENGINEER TESTS'.

OCCUPANCY TIMER AND SUSPEND

This timer and the suspend option both work in conjunction with the zone occupancy attribute and the programmable occupancy actions when/if the time expires without activation.

Occupancy timer

This timer (set in hours) defines the period of time that any zones with the occupancy attribute enabled must be trigger in.

Occupancy suspend

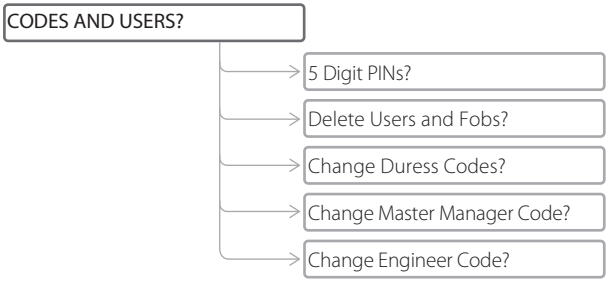
Defines the areas which will suspend the timer if armed.

Example

- Zone 1 has the occupancy attribute **enabled** and is located in **area A**.
- The occupancy timer is set to **1 hour** and occupancy suspend option reads '**[A]**' on the screen.

EVENT	RESULT
The system is completely **disarmed** and zone 1 has **not** been triggered for 1 hour.	The pre-programmed action is taken. (External alarm, SMS, keypad etc.)
The system is completely **disarmed** and zone 1 is triggered **before** 1 hour expires.	The 1 hour timer is reset and the zone must be triggered again within the next hour to prevent action being taken.
Area A is **armed** and the zone has **not** been triggered for over an hour.	No action. The 1 hour timer will commence when the system is disarmed.

For occupancy attribute information, see "Input Attributes" on page 17.
To program the actions when the timer expires, see "Occupancy Zones" on page 29.



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

Default codes

User: [None] Master Manager: 2222 Engineer: 1111

Please note: User codes, fobs and keyfobs can only be changed in the Master Manager Menu. Please see the user manual for more information.

5 Digit Pins?

If enabled, all new codes added to the system will require a minimum of 5 digits.

Please note: Any existing 4 digit codes will still be valid.

Delete Users And Fobs

This will delete all the key fobs and user codes from the system.

Please note: that this will not delete the Master Manager and the Engineer codes.

CHANGE DURESS CODES

[2] Duress Code

If the system is unset using a 'Duress' code, a silent 'Duress' or 'Hold Up' signal is sent.

Please note: ACPO policy restricts (it is still OK to use if Police give permission) use of Duress codes for police call purposes.

[3] Guard Code

A 'Guard code' can be used to unset the system only after an alarm has been activated for a minimum time (see 'Change Timers' Appendix C). The code will arm a system and an output type is available to signal when this code is used (0058 Guard Code).

[4] Dial Out

A dial code is used to force the panel to dial out the UDL software while in 'Day Mode' (PSTN modem only).

CHANGE MASTER MANAGER CODE

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

[0] Unset / Set [1] Unset Only [2] Set Only [3] None (menu access)

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

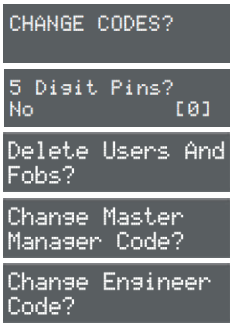
This will only be displayed if an Entry Control or Access Control reader is installed on the system. If the address of the Entry Control or Access Control device is entered here, then the tag will be assigned to that reader only.

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 be displayed. Press [◄] or [►] to enable or disable and press [YES].
3. '**Delete Users And Fobs**' will be displayed. Press [YES] to delete all the users from the system or [NO] to move past this option.
4. '**Change Duress Codes**' will be displayed. Press [YES] to add any Duress, Guard or Dial out codes (as described previously) 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

VOLUME CONTROL?

The Volume Control function applies to the loudspeaker output only. Volume levels at the keypad are programmed individually in the keypad menu.

The following volume on each sound can be controlled: Entry, Exit, APP Exit, Alarm, Fire, Tamper, Day alarm, and Chime.

Please note: App exit volume overrides other exit volumes when arming using a smart device application.

Volume levels

0	Completely silent.
1	Silent but sounds a beep when the system is set.
2-7	Volume range, 7 being the loudest.

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 armed 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 keypad and 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

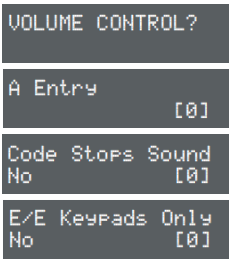
If this function is enabled then any technical alerts will be silenced, e.g. line fault, ARC call fail.

Use main sounder

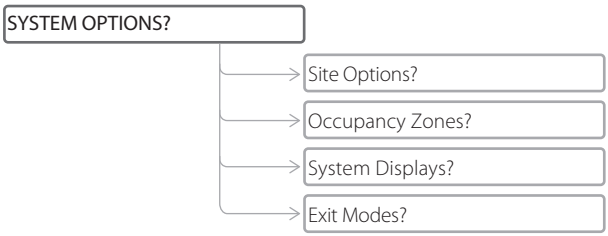
If enabled, all volume levels programmed will activate on the main sounder. If disabled, the sounder will only activate on activations programmed on volume 6-7.

VOLUME CONTROL PROGRAMMING

1. Press [B] or [NO] to scroll to 'VOLUME CONTROL'. Press [YES].
2. 'A Entry' will be displayed. Enter the volume and press [YES]. Repeat for all areas.
3. 'Code Stops Sound' will be displayed. Press [◄] or [►] to enable or disable and press [YES].
4. 'E/E Keypads Only' will be displayed. Press [◄] or [►] to enable or disable and press [YES].
5. 'Alert Kps Only' will be displayed. Press [◄] or [►] to enable or disable and press [YES].
6. 'Silent Tech Alert' will be displayed. Press [◄] or [►] to enable or disable and press [YES].
7. 'Use Main Sounder' will be displayed. Press [◄] or [►] to enable or disable and press [YES]. The Engineer menu will be displayed.



SYSTEM OPTIONS



SITE OPTIONS

Set with fault

If 'YES', the system will arm regardless of the following faults being present: device fail, mains fail, battery fault, fuse fault.

Set with tamper

If 'YES', the system will arm regardless of any zone tampers.

Set with ATS fault

If 'YES', the system will arm regardless of the following ATS faults being present: telecom line fail, modem fail, ATE path fail, Digi dial fail, or comms fail.

Set fail = alarm

If 'YES', the system will generate a graduated alarm when the 'Set Fail' timer has expired (See 'CHANGE TIMERS',) and will trigger any output programmed as '0011 Set Fail' if the arming procedure is still incomplete. If 'NO' the exit timer will continue until the exit route is clear.

Do battery load test

If 'YES', the system will perform a full battery load test at 7:00am each day.

Strobe/squawk at set

If 'STROBE', any output programmed as 'STROBE ANY' will activate for 5 seconds after the system has set. If 'SQUAWK' any output programmed as 'SIREN ANY' will activate for 5 seconds after the system has set, and if 'BOTH' then any outputs programmed as STROBE ANY or SIREN ANY will activate for 5 seconds after the system has set.

Please note: If this function is enabled, a potential security risk could be in view for intruders to see.

Use level set

If 'YES': The system becomes a 'level set' (Having one area armed only at any one time). If 'NO': The system becomes an 'area' system (arming more than one area at a time).

Autoset force

If 'YES', and an auto arm timer is programmed through upload/download software, then the system will auto arm regardless of any zones remaining open during the arming period.

Restrict PIN use

If enabled, this option prevents a PIN Code being used to disarm the system after an entry time has started unless an alarm activation has occurred. A tag or electronic keyfob must be used to disarm the system.

Please note: Enable when BS8243 option 6.4.5 is in use

Simple set

If 'YES', the system allows a user to arm the system 'quickly' by pressing [YES] and then the Area (A, B, C or D).

Please note: This must not be enabled when BS8243 option 6.4.5 is in use.

Intelligent set

The system has the facility to automatically initiate a different arm mode or area when you activate a zone in a certain area (rather than having to choose a different arm mode via the keypad). This is known as "Intelligent Set".

Hint: When Intelligent Set has been enabled, the exit tone will commence at 'intelligent' volume. When intelligent set is enabled, then level set B will start to arm (if the user code is enabled in level set B). Then if a Final Exit zone is activated, which is programmed in level set A during the exit time, then the panel will automatically 'quick set' in level set A.

Please note: Intelligent Set only works when the panel is in Level Set mode. (See Site Options)

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.

E.g. If Area C is selected as the 'Final Door' arming 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 arming will allow users to select which areas to unset (from the areas that they have been permitted to disarm.)

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 a DIGI-1200 (PSTN), DIGI-1200/Voice DIGI GPRS, DIGI LAN or DIGI Wi-Fi module.

Tag opens doors

This function is used in conjunction with a reader programmed as 'Entry Control'.

If 'YES' the 'Entry Control' readers will control the arming/disarming and access control. If 'NO' the Entry Control readers will control the arming/disarming only.

For programming entry control readers, see "Entry Control or Access Control" on page 23.

Fire Key Enable

If 'YES' the fire key will be enabled on the keypad.

Set With Polling Fault

If 'YES' the system will still arm even if there is a wireless polling fault.

If 'NO' the user will not be able to arm the system with a polling fault. The keypad will display a fault and the arming procedure will be stopped. The zone causing the poll fault can be identified in the event log.

Fob Unset Entry

If 'YES' any wireless keyfobs learnt will only be able to disarm the system once the entry time has been started. If 'NO' any wireless keyfobs learnt will be able to disarm the system without the entry time being started first.

Wireless Bell Supervision

If 'YES' then wireless external bells will activate they can't communicate with the system for a period of 2 hours.

Download if Set

If 'YES' any upload/download procedures will be possible on the InSite software regardless of the arm/disarm status of the system.

OCCUPANCY ZONES

This section programs the action(s) the system will take if any zones with the occupancy attribute enabled are not triggered for the duration of the occupancy timer.

Push notification

If enabled, the system will send a push notification to the smart device application.

Hint: To receive push notifications, this option must be enabled and notification type '284 No Activity in Property' must be activated on the users Cloud account. This can be found in Notifications > Alarms.

SMS

If enabled, the system will send an SMS to programmed telephone numbers.

Hint: The occupancy alert SMS event is associated with the alarm option in the SMS event menu. If the Alarm option is selected in the SMS event menu, and if there is no activity, an SMS text message will be sent to the respective mobile phone. To view the categories, see the Communications Guide.

ARC call

If enabled, the system will send a signal to the programmed ARC.

Hint: To signal an occupancy event to an ARC using Fast Format, one of the Digi outputs needs to be programmed as output type '0065 Input Activity FI'.

Keypad sounder

If enabled, the system will sound all the speakers on keypads and proximity readers.

Internal sounder

If enabled, the system will alert from any internal sounders/speakers on the system.

External sounder

If enabled, the system will sound any external sirens on the system.

For occupancy attribute information, see "Input Attributes" on page 17.
For the occupancy timer and arm suspension, see "Change Timers" on page 24.

SYSTEM DISPLAYS

This function programs the text display on the keypad for when the system is disarmed, or an area is armed. The Site Name reference is programmed here which must match the site name programmed on the InSite software. There are options to enable or disable displaying system status, alarms, hold ups or zones.

Area texts

This programs how each area will be displayed. For example if 'Area A' is used to arm the full house this can be text as "Full House Set". There is a maximum of 16 characters on the display.

Sign on message

The Sign on Message is the main display on the top line in day mode.

Display when set, display alarms and display HUs (not compliant)

If 'Display when set' is enabled, then the area text will be displayed on the LCD keypad once the system is fully armed. If '**Display Alarms / HUs**' is enabled, the system will display any alarms that are activated before a valid user code/tag is entered. If '**Display Inputs**' is enabled, any zones activated in day mode will be displayed.

EXIT MODES

The 'Exit Modes' operate the arming procedure of the system. The following 'Exit Modes' are available:

[0] Timed
The system will arm when the programmed 'Exit Time' has expired.

Please note: This is NOT suitable for systems installed to comply with BS8243.

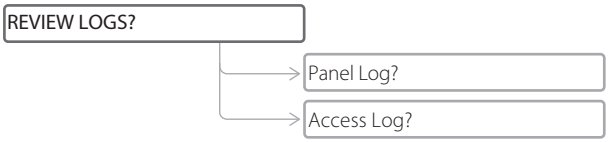
[1] Final Door
The system will arm when a zone programmed as 'Final Exit' is either closed (if the zone was opened when arming started) or it is opened and closed. 'Final door' is used for the 'lock set' operation; securing the lock completes the arming procedure and unlocking starts the entry time.

[2] Timed/Final
The system will arm when a 'Final Exit' zone has been closed, or when an 'Exit Time' has expired. The 'Final Exit' zone will override any 'Exit Time' programmed if opened/closed.

Please note: This is NOT suitable for systems installed to comply with BS8243.

[3] Push to Set (PTS)
The system will only arm when a 'Push to Set' button has been pressed. This function will override the programmed Exit Time.

REVIEW LOGS



Panel Log

The Panel log records all events that occur on the system, i.e. Users entering their codes to arm or disarm areas, alarm events, failures to arm etc. Pressing [C] will give more information of the display (for example, shows which user disarmed the system).

Access Log

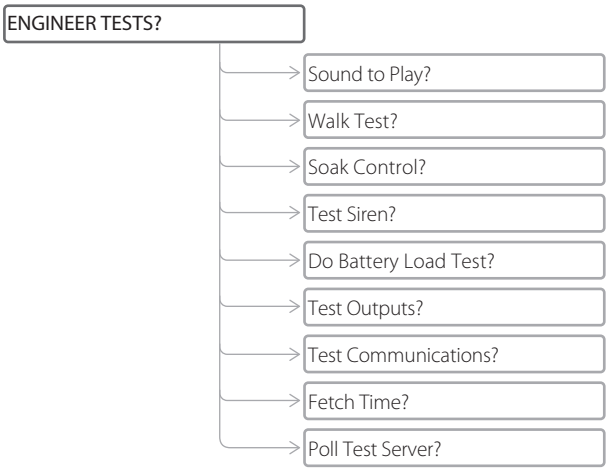
The Access log records all events for Access Control events.

With each log, use the [D] key to move from one event to the previous event. The [B] key will move from one event to the next event that occurred.

To view additional details, press the C key. If no other information is available, the display will move to the next log entry. Pressing A will return to the main screen for that entry.

Please note: For all 'Fault Codes', see "Appendix E - Fault Finding" on page 57.

ENGINEER TESTS



The test functions allow the engineer to test zones, outputs, batteries and the siren.

Sound to play

This function previews all of the different tones the system makes. They have a choice of:

- Chime
- Chime Follow
- Exit
- Exit Fault
- Entry
- Tech Fault
- Tamper
- Alarm
- PA
- Fire

Walk test

The walk test feature is used to test all the zones programmed on the system. It is recommended that after programming any zones, the Engineer menu is exited to save all data, after this point a walk test should be performed. The zones that haven't been activated will be shown on the display. Once all the zones have been walk tested, 'Walk Test Completed' will be displayed.

Hint: When walk-testing a double-knock detector, it must be triggered twice within the defined period. When testing dual-trip detectors, the first detector must be triggered and then the second detector; next, trigger the second detector and trigger the first detector.

Please note: To walk test a specific zone, press NO instead of selecting areas. Then specific zones can be entered with the numerical keys, pressing YES after each zone. Then press NO to walk test them.

Soak control

Any zone may be placed on 'soak test' which monitors the detector without giving an alarm activation. If the chosen zone triggers whilst the system is set, it will indicate the activation and enter the details in the event log. The number of days the zone is in soak control before the zone becomes active can be programmed.

Please note: The 'Initial Soak' time should be set to equal or greater than the 'Soak Days Left.'

Test siren

Any outputs programmed as '0014 Siren Any' and '0016 Strobe Any' will be tested.

Do battery load test

The system 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 measured is below 8.9V, or the battery fuse has failed, a 'BATTERY FAULT' warning will be generated. The system is 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, whilst monitoring the system diagnostics. The test will NOT take place if:

- The siren and strobe outputs are live
- The system is in Engineer Mode
- Any battery or mains faults exists
- The site option 'Do Battery Load Test' is not selected

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. The test may also be performed as required, under engineer control.

For the battery load test option, see "Site Options" on page 27.

Test outputs

The engineer can test all the programmable outputs on the input/outboard board and the output module.

Test communications

If the engineer is using SIA or Contact ID to signal events, this function can be used to send a test signal to the Alarm Receiving Centre. It can also be used to test SMS signalling.

Fetch time

This function is used to manually request the time from the cloud server if it hasn't updated automatically.

Hint: This will only function if the system has a valid data connection such as Wi-Fi or GPRS.

Poll test server

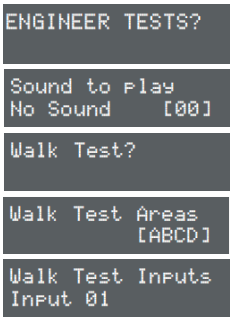
This option forces the panel to poll Pyronix test servers which are used to trial/test upcoming features on the cloud.

IMPORTANT NOTE: Do not poll the Pyronix test server unless specifically asked to do so by a member of the Pyronix team. The panel will cease polling the active cloud and then cannot be accessed via smart device applications and upload/download servers that use the cloud to communicate with the system.

WALK TEST PROGRAMMING

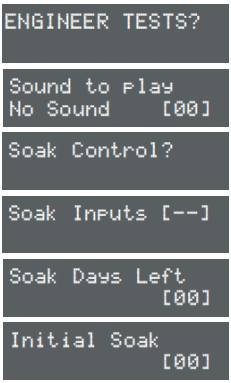
Please note: Wireless detectors may take up to 5 minutes to become active in a walk test.

1. Press [B] or [NO] to scroll to '**ENGINEER TESTS**'. Press [YES].
2. '**Sound to play**' will be displayed. Use [◄] or [►] to select the different sounds. Press [NO] to exit.
3. '**Walk Test**' will be displayed. Press [YES].
4. Select the areas that are required to be walk tested and press [YES] or press [NO] to walk test individual zones.
5. A list of all zones programmed for that area will be displayed on the keypad. Once a zone has been walk tested (i.e. the detector has activated and deactivated) then the zone will be taken off the list.
6. Once all zones have been tested, 'Walk Test Completed' will be displayed. To exit the walk test function at any time press [NO].
7. Press [NO] again to go back to the Engineer Menu.



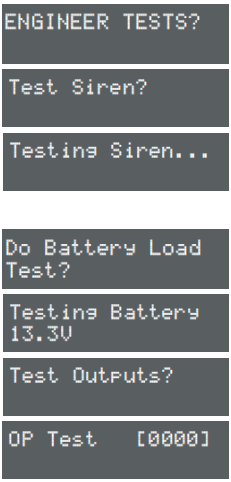
SOAK CONTROL PROGRAMMING

1. Press [B] or [NO] to scroll to '**ENGINEER TESTS**'. Press [YES].
2. '**Sound to play**' will be displayed. Press [NO].
3. '**Walk Test**' will be displayed. Press [NO].
4. '**Soak Control**' will be displayed. Press [YES].
5. Select the zones that are required to be soak tested. Each zone should be entered, following by [YES]. Press [NO] once finished.
6. '**Soak Days Left**' will be displayed. Select the number of days that the zones will be left on soak test and press [YES].
7. '**Initial Soak**' will be displayed. Enter the number of days the soak test will revert to in the event a soak zone is triggered during testing. Press [YES].
8. Press [NO] to go back to the Engineer menu.



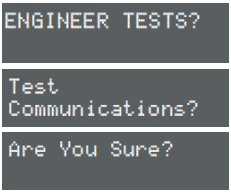
TEST SIREN, BATTERY LOAD TEST AND OUTPUTS

1. Press [B] or [NO] to scroll to '**ENGINEER TESTS**'. Press [YES].
2. '**Sound to play**' will be displayed. Press [NO].
3. '**Walk Test**' will be displayed. Press [NO].
4. '**Soak Test**' will be displayed. Press [NO].
5. '**Test Siren'** will be displayed. Press [YES], any outputs programmed as 'Siren Any' and 'Strobe Any' will trigger. Press [NO] to exit.
6. '**Do Battery Load Test**' will be displayed. Press [YES] to perform a battery load test, the voltage will be displayed, followed by 'Battery Passed' if the test has been successful. Press [NO].
7. '**Test Outputs**' will be displayed. Press [YES] to perform a test on any output type. For example if '0006' is entered, and the [YES] key is pressed, a 'Confirmed Any' test will be activated. Press [NO] to cancel the test.
8. Press [NO] to go back to the Engineer menu.

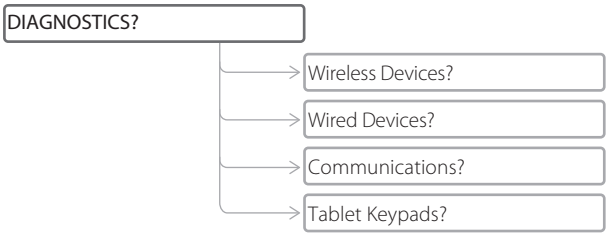


TEST COMMUNICATIONS

1. Press [B] or [NO] to scroll to '**ENGINEER TESTS**'. Press [YES].
2. '**Sound to play**' will be displayed. Press [NO].
3. '**Walk Test**' will be displayed. Press [NO].
4. '**Soak Test**' will be displayed. Press [NO].
5. '**Test Siren**' will be displayed. Press [NO].
6. '**Do Battery Load Test**' will be displayed. Press [NO].
7. '**Test Outputs**' will be displayed. Press [NO].
8. '**Test Communications**' will be displayed. Press [YES] to send a test signal to the ARC.
9. Press [NO] to go back to the Engineer Menu.



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 zones:

- O - Open
- C - Closed
- T - Tamper
- F - Fault
- S - Supervision fault
- B - Battery fault

Signal Strength

This option is used to view the signal strength for any wireless zone, 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:

If a Green LED is shown on the peripheral, the signal strength is HIGH.

If a Red LED is shown on the peripheral the signal strength is LOW / NONE.

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.

DISPLAY NUMBER	SIGNAL STRENGTH	SIGNAL PERCENTAGE	LED COLOUR ON DEVICE
3	Excellent	80 to 100%	Green
2	Good	30 to 80%	Green
1	Weak	0 to 30%	Red
0	Missing/no signal	0 to 10%	Red
?	Still testing	N/A	N/A

Battery Status

This option is used to measure the battery levels for wireless zones 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 shows information on whether the panel/wireless ZEM are working as a Single or Dual Frequency system. It will also display which zones (if any) are single frequency and stopping the panel from operating in dual frequency mode.

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 zones: Open, Close, Tamper, and Fault.

Endstation zones

The status of the zones will be shown. C = Closed. O = Open. F = Fault, T = Tamper.

- O - Open
- C - Closed
- T - Tamper
- F - Fault

The resistance reading can also be shown by pressing YES for any of the above for statuses.

ZEM zones

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

Keypad Volts

Choose the keypad address from [1] to [3] to read the keypad voltage.

Reader Volts

Choose the reader address from [1] to [3] to read the reader voltage.

COMMUNICATIONS

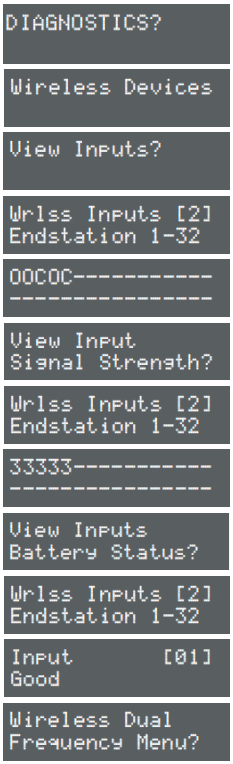
See the Communications Guide for information regarding the communications and signalling diagnostics.

TABLET KEYPADS

This menu shows the IP addresses allocated to the tablets communicating with the control panel. There can be a maximum of 4 communicating with the panel at any one time.

WIRELESS DEVICE DIAGNOSTICS

1. Press [B] or [NO] to scroll to '**DIAGNOSTICS?**'. Press [YES].
2. '**Wireless Devices**'. Press [YES].
3. '**View Inputs**': To view each zone status, press [YES].
4. Use [◄] or [►] to choose which zones to view. Press [YES].
5. The status of each zone will be shown.
6. Press [NO] twice to exit, and [NO] again for the next sub-menu item.
7. '**View Input Signal Strength**': To view each zones signal strength press [YES].
8. Use [◄] or [►] to choose which zones to view. Press [YES].
9. The status of each zone will be shown
10. Press [NO] twice to exit, and [NO] again for the next sub-menu item.
11. Repeat the above for '**View Bells Signal Strength**', and '**View Arming Station Signal Strength**'.
12. '**View Inputs Battery Status**':. Press [YES].
13. Use [◄] or [►] to choose which zones to view. Press [YES].
14. The status of each zone will be shown.
15. Press [NO] twice to exit, and [NO] again for the next sub-menu item.
16. Repeat the above for '**View Bells Battery Status**', and '**View Arming Station Battery Status**'
17. '**Wireless Dual Frequency Menu**'. To view Dual Frequency menu information. Press [YES].
18. Press [NO] to exit.

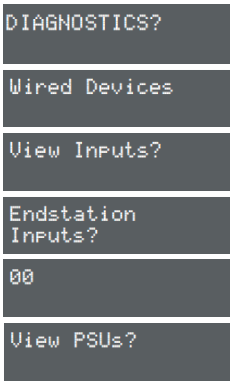


WIRED DEVICE DIAGNOSTICS

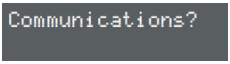
1. Press [B] or [NO] to scroll to '**DIAGNOSTICS?**'. Press [YES].
2. Press [NO] until '**Wired Devices**' is displayed:. Press [YES].
3. '**View Inputs**': To view each zone status, press [YES].
4. '**Endstation Inputs**': To view each zone status on the I/O board, press [YES].
5. The status of each zone will be shown:

Hint: Press [YES] again to view each zone individually, and the resistance readings.

6. Press [NO] twice to exit, and [NO] again for the next sub-menu item.
7. Repeat the above for '**ZEM Inputs**'.
8. '**View PSUs**': To view the power supply information press [YES].
9. '**Endstation PSUs**': The voltage will be displayed. Press [YES]. Press [YES] to view the power supply information for ZEMs, output modules, keypads and readers.
10. Press [NO] twice to exit.



1. Press [B] or [NO] to scroll to '**DIAGNOSTICS?**'. Press [YES].
2. Press [NO] until '**Communications**' is displayed and press [YES].



Please note: For more information, please refer to the Communication Guide.

ENGINEER RESTORE OPTIONS

ENGINEER RESTORE OPTIONS?

The Engineer Restore Options are used so that once an alarm has occurred; the system can only be reset by an engineer code or anti-code.

Engineer Restore of Intruder

If 'UK Intruder', an Engineer code must be used to reset the system after an alarm. 'Secure Intruder' should not be used.

Engineer Restore of Hold Up

If 'YES', an Engineer code must be used to reset the system after an Hold Up, Zone Hold Up, or Duress activation.

Engineer Restore of Tamper

If 'YES', an Engineer code must be used to reset the system after a tamper activation.

Engineer Restore of Soak

If 'YES', an Engineer code must be used to reset the system after a zone that is on 'soak' has triggered when the system is set.

Engineer Restore of Confirmed

If 'YES', an Engineer code must be used to reset the system after a confirmed alarm has occurred.

Engineer Restore of Faults

If 'YES', an Engineer code must be used to reset the system after the following faults:

- ATE telecom fail
- Modem fail
- ATE single path fail
- Telecom line fail
- Battery disconnect
- Batt charge
- Battery load
- Excessive charge
- Battery critical
- Device fail

Anti-Code Restore

If 'YES', the system will display an Anti-Code, to which can be used to generate a special reset code (usually from the ARC) to reset the system.

Please note: If Anti-Code is selected, this will coincide with the options that have been selected previously. For example, if 'Engineer Restore Intruder' is selected, and Anti-Code is selected, then an anti-code will be produced on intruder activation.

COMMUNICATIONS

COMMUNICATIONS?

- Select External Modem Type?
- App Set-Up?
- Program Wi-Fi?
- Program ARC?
- Program Digi Channels?
- User SMS Signalling?
- Advanced Communications?

See the Communications Guide for information regarding the programming of the communications and signalling.

ALARM RESPONSE

ALARM RESPONSE?

HOW ALARM RESPONSES WORK

This menu is used if the user wants an incremental alarm response to activations.

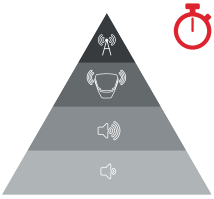
Activations would start off as a local alarm on the keypad, and progress through a number of stages to signalling the ARC. Most systems will want a full alarm and signalling immediately. However, on the occasions that isn't suitable, this menu can be used.

This works on the activation having an immediate response and every 15 seconds escalating the alarm.

There are 4 stages that the alarm can be raised to:

- Keypads [0]
- Internal Sounders [1]
- Sirens Only [2]
- Signal (Digi)tal Communicator [3]

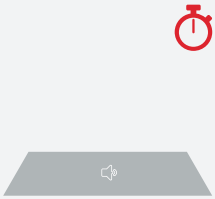
The immediate response is programmed in the '[Area #/Event] starts at' and the final response is programmed in '[Area #/Event] stops at'. The stages work on a hierarchical system meaning that any stage selected will include others that are lower in the sequence.



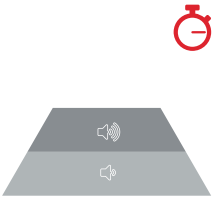
At default, activations and events are programmed to start at 'Digi [3]' and stop at 'Digi [3]'. Due to this stage being the at the top of the hierarchy, when the activation occurs, the keypads, internal sounders and external bells will all be audible straight away whilst the system simultaneously signals the event

Example 1

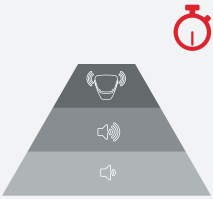
The below sequence shows what happens when the attributes are programmed as 'Starts at Keypads [0]' and 'Stops at Digi [3]'



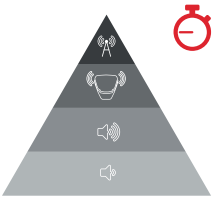
When the event is triggered, only the keypads are audible.



15 seconds later, the internal sounders become active.



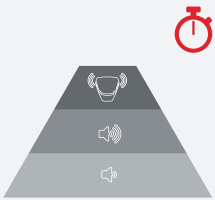
After 30 seconds from the initial event, the external bells trigger.



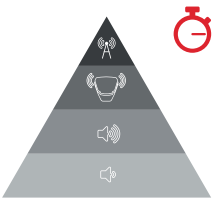
45 seconds after the sequence began, the panel will signal the event.

Example 2

The below sequence shows what happens when the attribute are programmed as 'Starts at Bells Only [2]' and 'Stops at Digi [3]'



When the event is triggered, the keypads, internal sounders and external bells are all audible simultaneously.



15 seconds after the activation, the system signals the event.

Please note: Any signalling will depend on programming in other menus regarding externals communications. See Communications Guide for more information.

ALARM RESPONSE OPTIONS

Silent 1st Alarm

If this function is selected as 'confirmed', then the first alarm to activate on the system will be silent, but only if another zone activates (i.e. a confirmed alarm) then the alarm will activate and the alarm tones will be heard. This option is only valid once the system has been armed for 3 minutes and not if the entry time has started.

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 the confirmation signals are enabled on expiry of entry time.

Alarm Starts / Stops (Alarm Responses)

Area # start at
This programs where the alarm response for each area starts.

Area # stop at
This programs where the alarm response for each area escalates to.

The following options have the same 'start at' and 'stop at' using the same format at described earlier:

- Fire
- Gas
- PA
- Medical
- 24 Hour

Any Alarms Start

This option allows alarms to start at a different place previously programmed if multiple areas are armed.

For example, if 24 hour is programmed to 'start at internal sounders' and 'stop at internal sounders', this feature is programming as 'Internal Sounders' and the next option has areas A, B and C entered. If A, B and C are armed and a 24 Hour zone is triggered, the alarm would start with the internal sounders and keypads being audible.

If Areas Armed
Select the areas that the previous option will be applicable to.

Any Alarms Stop
This option allows alarms to stop at a different place previously programmed if multiple areas are armed.

For example, if 24 Hour is programmed to 'Start at keypad' and 'stop at internal sounders', this feature is programming as 'Bells only' and the next option has areas A, B and C entered. If A, B and C are armed and a 24 Hour zone is triggered, the alarm would escalate to the external bells.

If Areas Armed
Select the areas that must be armed at the same time for the previous option setting to become active.

SET UP DOWNLOADING

SET UP DOWNLOADING?

If required, the system can be programmed remotely, or directly via a PC/Laptop.

To upload/download remotely, a communications module must be installed.

To upload/download directly, an RS232 lead must be used and connected directly to the system.

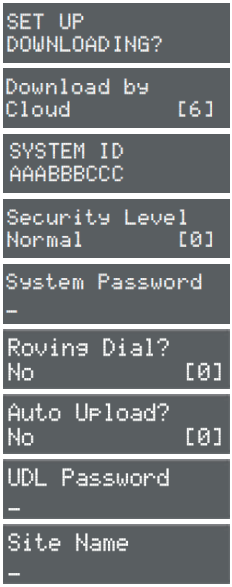
SET UP DOWNLOADING VIA CLOUD

1. Press [B] or [NO] to scroll to '**SET UP DOWNLOADING?**'. Press [YES].
2. '**Download By**': Use [◄] or [►] to scroll to 'Cloud'. Press [YES].
3. The '**SYSTEM ID**' will be displayed will be displayed. Press [YES].
4. Use [◄] or [►] to select either Normal or High Security Level.

Please note: If High is selected, encrypted keys will be created. Press [YES].

5. Enter a **System Password**. Press [YES]
6. **Roving Dial** - use the [◄] or [►] keys to enable/disable roving dial
7. **Auto Upload** - use the [◄] or [►] keys to enable/disable auto upload of configuration.
8. **UDL Password** (optional) – if the UDL software that the panel is connecting to has a password, use the numerical keys to enter it here. Press [YES]
9. '**Site Name**' (optional) – Using the numerical keys to enter the site name from '**System Displays**' Press [YES].

Please note: Make sure that the SIM card in use is enabled for GPRS data and that the correct APN configuration have been entered for your network (See Communication Guide).

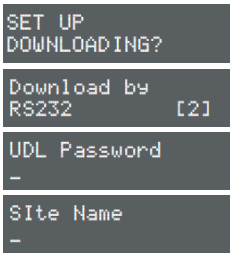


CONNECTING TO THE INSITE SOFTWARE

1. Click on '**Roving Dial customer**' (or hold Ctrl and press the F10 key).
2. Click on the '**Dial Out Mode**' drop down list and select 'Cloud'.
3. Enter the '**System ID**' of your Control Panel (See 'Set Up Downloading' in the panel's Engineer menu).
4. Enter the '**System Password**' (as entered in 'Set Up Downloading' in the Engineer menu).
5. Leave the UDL security level at 'low' for the initial connection test in the '**System Security Level**' field.
6. Enter the Engineer code as used on the Control Panel you are trying to connect to.
7. Enter the '**Site Name**' as entered in the panel ONLY if it was entered on the panel, otherwise, leave this blank.
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 system is now successfully connected to the Insite UDL Software. Now select '**Data from Panel**' to download panel configuration and proceed to make changes remotely.

SET UP DOWNLOADING VIA RS232

1. Press [B] or [NO] to scroll to '**SET UP DOWNLOADING?**'. Press [YES].
2. '**Download By**' : Use [◄] or [►] to scroll to 'RS232'. Press [YES].
3. Enter a UDL password (optional). This will need to be referenced in the InSite software. Press [YES].
4. Enter a Site Name (optional). This will need to be referenced in the InSite software. Press [YES].



Please note: If a 'Site Name' is set up on the panel, the UDL 'Site Name' must be exactly the same, otherwise the connection will fail.

CONNECTING TO THE INSITE SOFTWARE:

1. To set up the COM port associated to 'modem', open the software, click on '**Configuration**', choose '**Modem Configuration**' 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**' (or hold Ctrl and press the F10 key).
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**' if one has been put in the panel
8. In the '**Enter Customer In Database As**' field, simply give the panel you are connecting to an appropriate name.
9. Click on '**Dial**' and if the connection is successful, the RS-232 icon will become blue

DIAL OUT MENU

DIAL OUT MENU?
→ Select PC to Dial [-]

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
Dials the InSite and sends the diagnostic information such as battery levels.

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

SOFTWARE REVISION

SOFTWARE REVISION?

This option identifies all software revisions.

Press B or NO to scroll to '**SOFTWARE REVISION**'. Press YES.

The software revision will be displayed (e.g. V11.00) Press YES.

The Hub software revision will be displayed (e.g. V3.54). Press YES.

The the internal Wi-Fi version will now be displayed. Press YES.

If any modems are connected, the display will show the software revision here. Press YES.

CLEAN START

CLEAN START?

It is essential that a factory default (Clean Start) is performed after initial power up to ensure that the correct defaults are applied.

Clear wireless data

If this function is not accepted, then all wireless zones, wireless external sounders will be still present on the system.

Clear codes

If this function is not accepted, then all codes, tags and keyfobs will be still present on the system.

Clear logs

If this function is not accepted, then all event logs will be still present on the system.

Please note
1. If everything is defaulted, the system memory will also be restored to factory defaults except the following:
2. Keypad address '0' remains enabled at all times & the keypad in use remains enabled
3. Additional keypads connected will keep the area information

For clean start defaults, see "Appendix A - Defaults" on page 44.

EXIT ENGINEER MENU

EXIT ENGINEER MENU?

APPENDIX A - DEFAULTS

MENU OPTIONS	CLEAN START [2020]	CLEAN START [2000]
SET DATE & TIME		
Year (00-99)	[07]	[07]
Month (1-12)	[01]	[01]
Day (1-31)	[01]	[01]
Hours (0-23)	[02]	[02]
Minutes (0-59)	[52]	[52]
DST Adjust?	No [0]	No [0]
WIRELESS DEVICE CONTROL		
Program Keyfob Buttons		
Lock [1]	Set Area [2]: Area A	Set Area [2]: Area A
Unlock [2]	Unset Area [3]	Unset Area [3]
I [3]	Set Area [2]: Area B	Set Area [2]: Area B
II [4]	Show Status [1]	Show Status [1]
Lock + Unlock [5]	No Action [0]	No Action [0]
I + II [6]	No Action [0]	Hold up [6]
Lock + I [7]	No Action [0]	No Action [0]
Unlock + II [8]	No Action [0]	No Action [0]
CHANGE INPUTS		
Inputs	All inputs unused	All inputs unused
Input Area	A (if input programmed)	A (if input programmed)
Input Areas	Any [0]	Any [0]
Input Attributes		
Chime	No [0]	No [0]
Omittable	No [0]	No [0]
Double Knock	No [0]	No [0]
Normally Open	No [0]	No [0]
Occupancy	No [0]	No [0]
Monitor Activity	No [0]	No [0]
Special log	No [0]	No [0]
Supervision	Yes [1]	Yes [1]
Confirm Group	[00]	[00]
Input Description		
Enter Name	Input 01	Input 01
Enter Location	_	_
CHOOSE MODE		
EOL Range	4k7/2k2 [1]	4k7/2k2 [1]

MENU OPTIONS	CLEAN START [2020]	CLEAN START [2000]
EOL Mode	DR [1]	DR [1]
Input Response	300ms	300ms
INSTALL ZEMs		
ZEM Address	No [0] (for all ZEM addresses)	No [0] (for all ZEM addresses)
CHANGE OUTPUTS		
Endstation Outputs		
BELL O/P	Siren Any [0014]	Siren Any [0014]
STB O/P	Strobe Any [0016]	Strobe Any [0016]
PGM O/P	Not Used [0000]	Not Used [0000]
ZEM Outputs		
ZEM Address		
Output 1-4	Unused [00]	Unused [00]
Wireless Bells		
BELL O/P	Siren Any [0014]	Siren Any [0014]
STB O/P	Strobe Any [0016]	Strobe Any [0016]
Output Module Outputs		
OP Mod Address		
OP Mod Installed	No [0]	No [0]
Keypad Outputs		
Address [0]-[3]		
Output 1	Unused [0000]	Unused [0000]
Reader Outputs		
Address [1]-[3]		
Output 1	Unused [0000]	Unused [0000]
User Outputs?		
User Output Type	Latched [0]	Latched [0]
User Output Name	_	_
ASSIGN KEYPADS/READERS		
Address	Address [0]: Keypad [1]	
Addresses [1]-[3]: Unused [0]	Address [0]: Keypad [1]	
Addresses [1]-[3]: Unused [0]		
Set Point Sets	[ABCD]	[ABCD]
Set Point Unsets	[ABCD]	[ABCD]
Set Point In	[ABCD]	[ABCD]
Set Point Description		
Enter Name	Device 0	Device 0
Enter Location		

MENU OPTIONS	CLEAN START [2020]	CLEAN START [2000]
If programmed as Reader:		
Reader Is:	Set Point [0]	Set Point [0]
If programmed as Reader, Entry		
Control or Access Control	Lock Open Time [005]	
Door Open Time [010]	Lock Open Time [005]	
Door Open Time [010]		
CHANGE TIMERS		
A, B, C, D: Entry Time	[030]	[030]
A, B, C, D: Exit Time	[020]	[020]
A, B, C, D: App Exit Time	[030]	[030]
A, B, C, D: Siren Time	[04]	[04]
A, B, C, D: Siren Delay	[00]	[00]
Confirm Time	[30]	[30]
HU Confirm Time	[08]	[08]
Strobe Time	[00]	[00]
Re-Arm No	[3]	[3]
AC Signal Delay	[040]	[040]
Settle	[005]	[005]
Double Knock	[10]	[10]
Pre-Alarm	[030]	[000]
Wi-Fi Fault Delay	[180]	[180]
Comm Fault Delay	[180]	[020]
Set Fail	[040]	[120]
Fire Siren Time	[04]	[04]
Set Fail Warning	[00]	[00]
Occupancy	[00]	[00]
Occupancy Suspend	[ABCD]	[ABCD]
Input NAT Days	[14]	[14]
Input NAT Hours	[00]	[00]
Wireless Supervision Time	[02]	[24]
Wireless Jamming Time	[30]	[100]
Service Time	[000]	[000]
CODES AND USERS		
5 Digit PINs	No [0]	No [0]
Change Duress Codes	All codes empty	All codes empty
Change Master Manager Code		
Master Manager Code	2222	2222

MENU OPTIONS	CLEAN START [2020]	CLEAN START [2000]
User Areas	ABCD	ABCD
User Set Options	Unset/Set [0]	Unset/Set [0]
Flexi Set	Yes [1]	Yes [1]
User Name	_	_
Change Engineer Code	1111	1111
VOLUME CONTROL		
A, B, C, D Entry	[4]	[4]
A,C, D Exit	[4]	[4]
B Exit	[1]	[1]
App Exit	[4]	[4]
Alarm	[5]	[5]
Fire	[5]	[5]
Tamper	[5]	[5]
Day Alarm	[5]	[5]
Chime	[3]	[3]
Code Stops Sound	Yes [1]	Yes [1]
E/E Keypads Only	No [0]	No [0]
Alert Kps Only	Yes [1]	Yes [1]
Silent Tech Alert	No [0]	No [0]
Use Main Sounder	Yes [1]	Yes [1]
SYSTEM OPTIONS		
Site Options		
Set With Fault	Yes [1]	Yes [1]
Set With Tamper+	No [0]	Yes [1]
Set with ATS Fault	No [0]	Yes [1]
Set Fail = Alarm	Yes [1]	Yes [1]
Do Bat Load Test	No [0]	No [0]
Strb/Sqwk At Set	None [0]	None [0]
Use Level Set	Yes [1]	Yes [1]
Autoset Force	No [0]	No [0]
Restrict PIN Use	Yes [1]	No [0]
Simple Set	No [0]	No [0]
Intelligent Set	No [0]	No [0]
Common Lobby	Yes [1]	Yes [1]
Flexi Unset	No [0]	No [0]
2 Key HU	None [3]	Both [2]
Tag Opens Doors	No [0]	No [0]

MENU OPTIONS	CLEAN START [2020]	CLEAN START [2000]
Fire Key Enable	No [0]	No [0]
Set with Poll Fault	No [0]	Yes [1]
Fob Unset Entry	No [0]	No [0]
Wireless Bell Supervision	Yes [1]	No [0]
Download if Set	No [0]	No [0]
UDL/Cloud Priority	Low [1]	High [0]
Occupancy Zones		
Push Notification	Yes [1]	Yes [1]
SMS	Yes [1]	Yes [1]
ARC Call	Yes [1]	Yes [1]
Keypad Sounder	Yes [1]	Yes [1]
Internal Sounder	Yes [1]	Yes [1]
External Sounder	Yes [1]	Yes [1]
System Displays		
Area A Text	Full Set	Full Set
Area B Text	Night Set	Night Set
Area C Text	Area C	Area C
Area D Text	Area D	Area D
Full Area Text	Full	Full
Sign on Message	Enforcer	Enforcer
Display When Set	No [0]	No [0]
Display Alarms	No [0]	No [0]
Display HUs	No [0]	No [0]
Display Inputs	No [0]	No [0]
Exit Modes		
A Exit Mode	Final Door [1]	Timed/Final [2]
B Exit Mode	Timed [0]	Timed [0]
C Exit Mode	Timed [0]	Timed [0]
D Exit Mode	Timed [0]	Timed [0]
REVIEW LOGS		
ENGINEER TESTS		
DIAGNOSTICS		
ENGINEER RESTORE OPTIONS		
Engineer Restore Intruder	No [0]	No [0]
Engineer Restore Hold Up	No [0]	No [0]
Engineer Restore Tamper	Yes [1]	Yes [1]
Engineer Restore Soak	No [0]	No [0]

MENU OPTIONS	CLEAN START [2020]	CLEAN START [2000]
Engineer Restore Confirmed	Yes [1]	Yes [1]
Engineer Restore Faults	No [0]	No [0]
Anti-Code Restore	No [0]	No [0]
COMMUNICATIONS		
Select External Modem Type		
Modem Type	NONE/PSTN [0]	NONE/PSTN [0]
App Set Up		
Use App	No [0]	No [0]
System ID	Displays unique System ID	Displays unique System ID
Cloud Password	_	_
Security Level	Normal [0]	Normal [0]
App Password	_	_
Always Poll Cloud	No [0]	No [0]
Data Network Set Up?	6	6
Programming Signalling		
ARC Details	[1]	[1]
Format	Not Used [254]	Not Used [254]
Digi Channel 1	Fire [0001]	Fire [0001]
Digi Channel 2	HU Device Any [0009]	HU Device Any [0009]
Digi Channel 3	Unconfirmed Any [0018]	Unconfirmed Any [0018]
Digi Channel 4	Final Set Any [0022]	Final Set Any [0022]
Digi Channel 5	Tamper Any [0007]	Tamper Any [0007]
Digi Channel 6	Omit Rearm Any [0017]	Omit Rearm Any [0017]
Digi Channel 7	Confirmed Any [0006]	Confirmed Any [0006]
Digi Channel 8	Mains Fail [0052]	Mains Fail [0052]
Digi Channel 9	Global Fault 2 [0056]	Global Fault 2 [0056]
Digi Channel 10	Test ATS [0064]	Test ATS [0064]
Digi Channel 11-16	Not Used [0000]	Not Used [0000]
User SMS Signalling		
SMS Details	[1]	[1]
Mobile Number	_	_
ALARM RESPONSE		
Silent 1st Alarm	Never [0]	Never [0]
Disable Confirm On Entry	No [0]	No [0]
Area A, B, C, D Starts At	Digi [3]	Digi [3]
Area A ,B, C, D Stops At	Confirm [4]	Confirm [4]
Fire, Gas, HU Start At	Digi [3]	Digi [3]

MENU OPTIONS	CLEAN START [2020]	CLEAN START [2000]
Fire Stops At	Digi [3]	Digi [3]
HU Stops at	Confirm [4]	Confirm [4]
Day Alarm Starts	Sirens Only [2]	Sirens Only [2]
Day Alarm Stops	Sirens Only [2]	Sirens Only [2]
SET UP DOWNLOADING		
Download By	None [0]	None [0]
SOFTWARE REVISION		
CLEAN START		
EXIT ENGINEER MENU		

APPENDIX B - INPUT TYPES

NUMBER & TYPE		OPERATION
00	Unused	Factory default. Input is programmed out of operation.
01	Fire	Active at all times. Audible response: Full (differentiated Communicator: 'Fire' signal.
02	Gas	Active at all times. Audible Response: Full (differentiated Communicator: 'Gas' signal.
03	HU#	Active at all times. Audible Response: Full (differentiated Communicator: 'Hold Up' and 'Input HU' signals.
04	Silent HU#	Active at all times. Audible Response: None Communicator: 'Hold Up' and 'Input HU' signals.
05	Tamper	When disarmed: Audible Response: Internal only Communicator: 'Tamper' signal. When set: Audible Response: Full (differentiated) Communicator: 'Tamper' and 'Unconfirmed' signals.
06	Intruder	Active when set. Audible Response: Full Communicator: 'Intruder' and 'Unconfirmed' signals.
07	Final Exit (FX)#	Active when armed – initiates entry timer if system not disarmed 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 (Part FX)	When fully armed (A), acts as Entry route input, as above. When part armed (B,C,D), acts as Final Exit input, as above.
10	FX (Part ER)	When fully armed (A), acts as Final Exit input, as above. When part armed (B,C,D), acts as Entry route input, as above.
11	PTS	Active during exit time to complete Arming 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 zone type is used to trigger an output or task, but not an alarm. It will function whether the panel is armed or disarmed and can be used to illuminate a light, or trigger a CCTV camera etc. If the zone has Masking or Tamper functions – then these will still trigger an alarm, it is only regular activations that will not.
13	Day Alarm	When armed: Audible Response: Full; Communicator: 'Instant' signals. When disarmed: Audible Response: Programmable; Communicator: '24hr Alarm' signal (if programmed in Alarm Responses menu).
16	Fault	When armed: Audible Response: Full; Communicator: 'Instant' signals. When disarmed: Audible Response: Programmable; Communicator: '24hr Alarm' signal (if programmed in Alarm Responses menu).
20	Keyswitch Latched*	Accepts input from keyswitch (or equivalent) to arm/disarm the Set modes assigned to it. Arming includes normal exit time, etc. Requires latching action switch.

NUMBER & TYPE		OPERATION
21	Entry Shock Input	Active when system set. Works in conjunction with EE input type for detection of forced entry. See page 35 for details.
23	Keyswitch Pulsed*	Accepts input from keyswitch (or equivalent) to Set/disarm the Set modes assigned to it. Requires momentary action switch to toggle set/disarmed state.
32	Flood	This input type will work as a 24hr input, any inputs that are programmed for Flood will activate the external siren.
42	Medical	This input type will work as a 24hr input, any inputs that are programmed for Medical will activate the external siren.
44	ATE Line Fail	Once a ATE line fail has been recognised the input will open.

*The use of these inputs will make the system unable to comply with EN50131-1 Grade 2
#These input types cannot be bypassed.
Entry Shock Input Type (21)
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.

APPENDIX C - TIMERS

TIMER	FUNCTION	RANGE
Entry Time	Entry time for each area. (if programmed as the input type 'Final Exit')	0 – 255 seconds
Exit Time	Exit time for each area.	0 – 255 seconds
APP Exit Time	Exit time when armed via the smart device app	0 – 199 seconds
Siren Time	Cut off time for external sounder. Separate for each area.	2 – 15 minutes
Siren Delay	Delay after intruder alarm before siren live. Not valid within 3 minutes of final arm or after entry time started.	0 – 20 minutes
Confirm Time	Time period during which a second activation must occur to qualify as 'sequentially confirmed' alarm. NOTE: BS8243 specifies a confirm time between 30 and 60 minutes. This also can 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 'sequentially confirmed' alarm. NOTE: BS8243 specifies a confirm time between 8 and 20 hours. This also can be used in conjunction with testing an omit signal.	8 – 20 hours
Strobe Time	Time strobe output remains live after siren time ends. '99' means endless.	0 – 99 minutes
Re-Arm No.	Number of times system re-arms after bell time ends. **Please note:** Re-arm number applies to each area, and does not affect emergency alarms. '9' means always re-arm.	0 – 9
AC Signal Delay	Time delay before mains failure or technical alarm notified. NOTE: Arming '250' = never alarms. System change-over to battery supply and associated visual alert indication is always immediate. Some ATE imposes a randomised delay in notifying a mains fail. This should be taken into account when arming this timer.	0 – 250 minutes

TIMER	FUNCTION	RANGE
Settle	Time between final exit input closing, and system arming.	0 - 255 seconds
Double Knock	Length of filter period applied to inputs with 'Double Knock' attribute.	0 – 75 seconds
Pre-Alarm	Delays 'Intruder' output signals if entry time has started. Pre-alarm time must be set for at least 30 seconds to comply with PD6662	0 – 255 seconds
Comm Fault Delay	Duration of communication fault before 'Comms Fault' alarm triggered. NOTE: In the case of devices connected via the ATE pins, this time is additional to that already applied by the ATE. **Please note: Arming this to '250' disables line fault monitoring and will not notify at the keypad/readers**	0 – 250 seconds
Set Fail	Time after which 'Set Fail' operation will be invoked if exit procedure not completed.	0 – 255 seconds
Fire Siren Time	Cut off time for fire alarm. '99' means endless.	1 – 99 minutes
Set Fail Warning	Time for which a set fail warning will be present.	0 – 99 seconds
Occupancy	This timer (set in hours) defines the period of time that any zones with the occupancy attribute enabled must be trigger in.	0 - hours
Occupancy Suspend	Defines the areas which will suspend the timer if armed.	[ABCD]
Input NAT Days	NAT stands for Non-Activity Timer. This is used in conjunction with the input attribute 'Non Activity Input', and will monitor the chosen input for the selected number of days. At expiration of timer, and if the input has not opened within that time, then this will be stored in the panel log. Non Activity fault and there will be an output activated if programmed to it. Send SMS message if "Special Log" is on.	0-14 days
Input NAT Hours	NAT stands for Non-Activity Timer. This is used in conjunction with the input attribute 'Non Activity Input', and will monitor the chosen input for the selected number of hours. At expiration of timer, and if the input has not opened within that time, then this will be stored in the panel log. Non Activity fault and there will be an output activated if programmed to it. Send SMS message if "Special Log" is on.	00-23 hours
Wireless Supervision Time	This option is only applicable if wireless devices are installed. It is the time window before a wireless supervision fault will be signalled. For example: if the time is set for 2 hours, then any device that doesn't communicate with the wireless expander within that period will cause a supervision fault. This must be programmed to 2 hours or less for compliance to EN50131.	0-99 hours
Wireless Jamming Time	This option is only applicable if wireless devices are installed. It is the time window that if a wireless device had its signal 'blocked' a fault would display. For example, if the time is set to 30 seconds, then if a wireless device is 'jammed' longer than 30 seconds a fault will be displayed. This must be programmed to 30 seconds or less (but not zero) for compliance to EN50131.	0-100 seconds
Service Time	This is a timer that can be set in days, and will display a message to the user warning that a service is due. An engineer code will clear the message.	367 days

APPENDIX D - OUTPUT TYPES

NO.	TYPE	ACTIVE	RESTORE
0000	Not Used	(Permanently off)	
0001	Fire	At alarm	When a valid code is entered
0002	Hold Up Any	"At a HU or Duress alarm (This includes keypad HU)"	When a valid code is entered
0003	Intruder Any	At alarm, while system is disarmed	At first valid code entry and at end of confirm time.
0005	Misoperation Any (Abort)	When system is silenced after any 'intruder' output is triggered	After 2 minutes
0006	Confirmed Any	After two 'intruder' alarm activations	At next code entry
0007	Tamper Any	Any tamper alarm	At code entry to silence And at end of confirm time.
0008	Duress	At a Duress alarm (i.e. from a keypad)	When a valid code is entered
0009	HU Device Any	At alarm on a HU input only	When a valid code is entered
0010	Gas	At alarm	When a valid code is entered
0011	Set Fail	Pre-set time after start of exit time, if exit procedure is not complete	At code entry to rearm
0012	Entry Deviation	When deviation from entry route occurs, during entry time	At code entry to disarm
0013	Secure Intruder Any	At alarm, after exit time started, until disarmed	At first valid code entry and at end of confirm time.
0014	Siren Any	When alarm live	When alarm silenced or when siren timer expires
0016	Strobe Any	When alarm live	When alarm silenced or when strobe timer expires
0017	Omit Rearm Any	Zone omitted if active (or in alarm condition) at the end of confirmation time.	When system disarmed
0018	Unconfirmed Any	Any intruder alarm	At code entry to silence
0021	Exit Starts Any	When exit time starts to set FIRST area	At code entry to unset LAST area
0022	Final Set Any	When FIRST area is set	At code entry to disarm LAST area
0023	Strobe Set Fail	Works similar to output 016, but also fires if the set fail timer expires.	
0025	Keyswitch disarmed	This output turns on for 5 seconds when the system is disarmed via a keyswitch input (pulsed or latched)	
0026	Set with Omit	Activates when inputs are omitted on arming	
0028	Power Fault	Active during low volts and battery faults*. Restores at code entry after fault cleared.	
0029	Confirmed Intruder Any	When more than one intruder alarm activates	At next code entry

NO.	TYPE	ACTIVE	RESTORE
0030	Confirmed Hold Up Any	When more than one confirmed hold up activates	At next code entry
0033	Entry/Exit	Live during any entry or exit time	
0034	Lights	When exit or entry timer starts	20 seconds after set/disarmed procedure completed
0035	Follow Input	When input triggers	Dependent upon programming
0037	Restore 1	At code entry to set	After 3 seconds
0038	Restore 2	At code entry to set	When disarmed
0039	PIR Latch 1	When set (and in Walk Test)	At alarm, or when disarmed
0040	PIR Latch 2	This is the inverse polarity to PIR Latch 1	
0041	Mains Good	Output showing the mains is healthy	
0042	Detr Indn Enable	This output activates during walk test and also when a code is entered to view indications – staying activated for the time for which the indications are viewed.	
0043	Follow Test	New output for alternative bell test by activating SAB	
0044	Off During Test	New output for alternative bell test by activating SAB	
0048	Detr Walk Test	This output is active during walk test, and will only deactivate when all detectors have been tested.	
0049	Detector Masked (Not applicable on grade 2 systems)"	If any detector goes into 'mask' condition the output will trigger	When masking fault clears.
0050	Follow 24 Hour	If any input programmed as "Day alarm" activates	When input restored
0051	Line Fault	When Line Fault signalled by communicator	When fault clears
0052	Mains Fail	After pre-set time without mains power	On restoration of mains
0053	Battery Faults	When battery disconnected or load fail detected	At next valid code entry
0054	Low Volts	When the input voltage from the transformer is too low	When the control panel reads the correct voltage.
0055	"Global Fault 1 (Faults: Modem, Battery, Fuse, Line, Mains)"	At fault	When fault clears
0056	"Global Fault 2 (Faults: as above)"	Activates if fault occurs only when system is armed	When all faults cleared
0058	Guard Code Used	When 'guard' code accepted	After 60 seconds
0059	Engineer Access	When entering Engineer Mode	Leaving Engineer Mode
0060	Initialise Digi	At power up	Live for 45 seconds only
0063	Test ATE/GSM	Test signalling through PSTN and GSM. Activates when a test call is sent.(Only used for specific GSMs)	When test completed

NO.	TYPE	ACTIVE	RESTORE
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 test completed
0065	Input Activity Fault	When a zone with the occupancy attribute enabled has not been triggered for the duration of the occupancy timer.	When a valid user code/tag has been entered/presented or when the zone is triggered.
0066	ATE not used	N/A	N/A
0170-0199	User Defined 1-30	Can be used to trigger outputs via the keyfob. For example, an output can be programmed as type '[0171] User Defined 02' and then wired to a garage door. If a user keyfob button is programmed as '[0171] User Defined 02,' when that button is pressed, the output will trigger opening the garage door.	
0600-0609	Timers 01-10	For future development	
0610-0619	Calendar 01-20	For future development	
0620-0639	Logic Gate 01-20	For future development	
0640-0649	Delay 01-10	For future development	
1xxx	Follow Input xxx	When input is activated	When input clears

APPENDIX E - FAULT FINDING

If a device on the system is not installed correctly or has lost its communication with the panel, "DEVICE FAIL" will be shown on the keypad as shown:

Control Panel = Main panel fault (e.g. battery)

485 Fail Kpd = Keypad

485 Fail Trd = Tag Reader / Door Station / TMZ

485 Fail Zem = Zone Expander Module (ZEM)

485 Fail Opm = Output Module

For the keypad and tag readers, the top line will show the set point name, for the ZEMs and output modules a 'Location' description (if inputted) will be shown on the top line of the display instead of the address number. (Address number will be displayed in 2 digits, e.g.: 00,01,02 etc).

WIRELESS FAULT DISPLAYS

FAULT	DESCRIPTION	SOLUTION
Wireless mismatch	There is a zone learnt without having a type assigned to it	Assign an input type in 'Change Inputs'.
User name Wireless Low Bat	Low battery on radio keyfob for the user with the name shown on the top line.	Replace the battery on the mentioned keyfob.
Input name Wireless Low Bat	Low battery on radio input, entered name of input shown on top line.	Replace the battery on the mentioned input device.
Siren n Wireless Low Bat	Low battery on radio bell number 'n'	Replace the battery on the mentioned radio bell.
Input name Wireless Supervision fault	Radio input whose name is shown on the top line hasn't 'checked in'	Walk test the detector, perform a diagnostic – signal strength test and try replacing the battery.
Siren n Wireless Supervision fault	Radio bell number 'n' hasn't 'checked in'	Test the siren, perform a diagnostic – signal strength test and try replacing the battery.
Input name Tamper Alarm	Tamper fault on radio input whose name is shown on the top line	Check the tamper switch on mentioned radio input; check that the case is closed properly.
Siren n Tamper Alarm	Tamper fault on radio bell number 'n'	Check the tamper switch on the mentioned radio bell.
Location Wireless Jam WZm	Jamming fault on the wireless ZEM whose location is shown on the top line	Check no radio interference is in close proximity to the radio devices/panel.
"Input name" or "Siren n" Wirless Poll Fail	No 'polls' are received for 20 minutes before the set operation	Test the signal strength / battery on the device shown.

RS-485 BUS PROBLEMS

FAULT	DESCRIPTION	SOLUTION
485 Fail xxx	Device on RS-485 communications bus is failing to communicate correctly with the control panel.	Identify device from the location/ name and the device type. Check device addressed correctly to match programming. Ensure that 2 devices of the same type do not share the same address. Check connections at device, and cabling to it. If above correct, re-boot device, followed by re-boot of End Station.
485/Comms Lost	Displayed on keypad that has not yet established communications with End Station	Part of routine initialisation procedure. If persists, check display at other keypad(s) to confirm if device failure at that keypad or complete system RS-485 failure (temporarily attach additional keypad direct to End Station if necessary).
Keypad display is BLANK	Keypad address does not match any keypad enabled	Check keypad address, noting that a keypad at address 00 must be present to program system. Also check "Assigning Keypads" menu in Engineer mode set up correctly.
Keypad display normal, but KEYS LOCKED OUT	More than one device connected at the same address	Correct addressing so that no overlaps. Then power system down and up again to correctly reinitialise.
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

POWER SUPPLY PROBLEMS

FAULT	DESCRIPTION	SOLUTION
Battery Fault xxx	Battery Fuse failed, OR Battery not present, OR Battery volts low	**Please note: This indication should be expected during recharge after a mains failure.** The top line displays 'Control Panel' if it is a fault on the endstation, if the Battery fault is on a ZEM/OPM 'xxx' will show the device type and the top line the location text if entered, if not it shows xxx-nn where nn is the address of the ZEM/OPM.
Bat Test Fail XXX	Battery Load Test has failed	Only displays if option selected. Battery uncharged or capacity below specification may need replacing. Same method as showing the device as battery fault.

FAULT	DESCRIPTION	SOLUTION
Bat Critical XXX	Battery being powered down	Protects battery from deep discharge damage during extended mains failure. Same method as showing the device as battery fault. **Note: System is now powered down**
Mains Fail xxx	Mains supply failed	System detects mains frequency out of specification, as well as voltage. Same method as showing the device as battery fault. Note: 'AC FAIL' timer operative
Low Volts xxx	Power supply volts low	Battery volts below normal 'battery fault' level during mains failure. Same method as showing the device as battery fault

DETECTION FAULTS

FAULT	DESCRIPTION	SOLUTION
Case Tamper XXX	Case tamper switch open	Secure switch closed. Same method of showing the device as battery fault.

COMMUNICATION FAULTS

FAULT	DESCRIPTION	SOLUTION
Control Panel Modem Fault	End Station unable to communicate with Digi Modem	If modem not present, ensure that "Disable Digi" option is set to 'YES' and "DOWNLOAD MODE" is set to 'NONE' or 'RS232'. If present, but not detected, check the modem is inserted correctly.
Control Panel ARC Call Fail	Call to ARC from Digi Modem Digi Modem has failed. Note: This is a communication problem, which is rarely caused by an equipment fault.	Check ALL call details are programmed correctly. Ensure signalling format is correctly set for ARC receiver. Ensure that calls to the ARC or SMS bureaux numbers are allowed on the PSTN line, eg 0800, 0845 etc.
Control Panel Line Fault 100	PSTN Line Fault signalled by Digi Modem.	Only operative if "DOWNLOAD BY MODEM" selected OR "DISABLE DIGI/ SMS" is set to 'NO'. **Note: 'Line Fault' timer operative.**

TECHNICAL SUPPORT

If you are still experiencing issues with the installation, please call our UK technical support team.

Please note: In order to get your issue resolved quickly, please have the software revision of the panel ready to give to one of our engineers.

Alternatively if you do not require assistance straight away, you can email the team who will reply to you as soon as possible.

Our office hours are: Monday to Friday 8:00 - 18:30.

0333 444 1280

technical.support@pyronix.com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