



Programmer's Manual *PLUS*

inner range *IQ*

SMART SECURITY SYSTEMS

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PROGRAMMING METHODS

The Inner Range IQ has been designed to provide a versatile system that is quick & easy to program & commission.

THERE ARE 5 WAYS TO QUICKLY PROGRAM YOUR INNER RANGE IQ.

FROM THE PROGRAMMING KEY

1 Portable Memory Device



Used to Download programming data into a Controller that has been copied from another Controller or from a Computer.
See page 9 of this manual.

FROM A COMPUTER

2 Upload / Download Software



Allows system programming while on-line to the Controller or while off-line. Connection can be via local Serial Port (using the "Port 0 Cable") or via remote dial-up. This software is also used to view "Review" history.
Download for free from www.innerrange.com

FROM THE TERMINAL

3 Factory Defaults

Much of the basic system programming can be quickly implemented by selecting one of the System Default options.

See Page 16 of this manual for the Default procedure and an overview of the System Default options.

See the Tables section for a full description of each System Default option.

4 Address Location -Numerical Order

Use Section 9 -"Programming Reference" to program the system in numerical Address order.

401-495	Users	47
500-520	Comms	48
521-569	Areas	54
570-599	Holidays	58
590-595	Daylight Saving .	59
600-741	Zone Inputs	60
750-769	TimeZones	65
800-870	Auxiliaries	66
890-893	General Opts	68
897-899	System Inputs	71
900-914	Times/Counts	73
918-919	Access Control ..	76

5 Primary and Secondary option programming.

In many cases, a system can be fully programmed by following the Basic Programming Guide flowchart steps described in Section 7

Additional Features can then be added by following the Advanced Feature Programming described in Section 8

Section 9 - Programming Reference can be used for additional details whenever required.

1. INTRODUCTION

1.1 SYSTEM OVERVIEW

The Inner Range IQ is an affordable, simple to use security system targeted at the domestic and small commercial markets. The system has been designed for ease of use by the Installer and the End User.

SYSTEM HARDWARE

The basic Control Module has the following hardware dimensions:

- Zones: 8 standard Zone Inputs or 16 doubled Zone Inputs.
- Auxiliaries: Total of 3. 1 Siren speaker / 1 Strobe / 1 General purpose.
- Serial Communications Port: RS232.
- External Device Bus.
- System LAN: Provides connectivity for up to 4 LAN Devices.
- IO Expansion Bus.
- Separate Tamper Input.

A variety of Peripheral devices can be connected directly to the Control Module:

- Programming Key.
- Plug-on Expansion Card options. 8 additional Auxiliaries and/or 8 additional Zones.
- DTMF communications Card.
- DTMF + Voice communications Card.
- Serial Adapter Cable for connection to PC.

The System LAN supports the following LAN Modules:

- Standard 16 Zone / 4 Area LED Terminal.
- Standard LCD Terminal.
- Enhanced Terminals that add RF Terminal providing 2 key or 4 key radio remote functionality.
- Enhanced Terminal's that add access control

FUNCTIONAL DESCRIPTION

Zone Inputs. Zone Inputs are individually programmed to define how they are to be processed. An appropriate "Zone Type" is chosen and additional options relating to; Alarm Processing, Reporting, Siren, Pulse counting, Testing, and type of Input Device can also be defined. Global Zone options also allow system-wide parameters to be set for Pulse Counting, a choice of End-Of-Line Resistor values and Zone Self Testing.

System Inputs. System Inputs are available for monitoring Faults and System Alarms such as; Power Problems, Cabinet & Siren Tamper, Communication Problems, LAN & Battery Fuses, Zone Self-test Status and Keypad Emergency Alarms (Panic, Fire, Medical & Duress).

System Inputs are also available for monitoring Door Forced and Door Open Too Long (DOTL) alarms, allowing operation of auxiliaries and other General Options.

Automatic Battery Testing is available and triggers the Low Battery alarm if the test fails.

The Installer enables the Siren and Reporting options for each System Input as required (Reporting can be sent to Fault History and/or Review or through the dialer) .

Terminals. An IQ Terminal (keypad) is the primary human interface to the Inner Range IQ Alarm Panel, indicating the status of Zone Inputs and Areas along with "Home", "Armed" and "Fault" conditions. The keypad is used to program system parameters and user operations, an audible button press is provided for positive PIN & data entry feedback and indicator LEDs to provide Area status information. The LCD terminal in an alphanumeric display, while the LED Terminal uses LED indicators behind a silk screened lens.

Areas. The system can be configured in Single Area or Multi Area Mode according to the site requirements. Up to 4 Areas are available and Zone Inputs can be assigned to one or more Areas. Each Area can be armed in "AWAY" or "HOME" modes. Each LED Terminal can be configured for Multi-Area mode or assigned to a Single Area.

Review General Review is a history of events available to the Upload/ Download software or direct to a Printer in real time (IQ Plus only see Tables - Section 10). Events such as alarms, restores, tampers, open, close and system inputs are time stamped and entered into Review. General Review contains a maximum of 128 entries, once Review is full, older events are lost as new ones are entered.

Unique to the IQ Plus is "Access Review" events such as REX button, Door Forced, Door Open Too Long (DOTL), valid and invalid card read and access entry are all viewable (requires an add-on to the Upload/Download software). Access Review contains a maximum of 42 entries, once Review is full, older events are lost as new ones are entered.

General Options can be set, to allow Access Review to be written to General Review, this option should be used with caution because of the limited size of the Review buffer.

Siren. The Siren Speaker output supports a standard 8 Ohm Horn speaker and can generate 4 different siren tones for Burglary, Fire, Medical & Panic alarms. The Siren time is programmable and any System Input Alarms that are programmed to activate the Siren may be differentiated from Zone Input Alarms by a different Siren tone.

Auxiliaries. Auxiliary outputs are extremely flexible with a range of versatile programming options for Security and Building/Home automation. A choice of over 50 "Auxiliary Types" provides for Auxiliaries to; Annunciate different types of alarms, Indicate (mimic) individual Area or Zone status, Indicate Entry, Exit, Auto-Arm & Zone Bypass conditions, Follow TimeZones, etc.

For each individual Auxiliary the output logic and On/Off actions can be tailored including an optional timer that can be programmed in Minutes or Seconds.

Communications. The system offers "Contact ID" or "Domestic" dialing options. For a higher level of Dialer integrity a Secondary telephone number can be programmed, Telephone line monitoring is provided and the maximum number of dial attempts can be specified. A "Comms Fail" alarm is activated if the line is tampered or the maximum attempts is reached. Daily, Weekly or Monthly Test reports can also be sent at a specified time of day, or triggered manually by a Master User.

The IQ Plus also provides a "Securitel" Reporting option. Zone and System Alarms, restores, tampers and opening / closing, as well as keypad alarm (Medical, Panic etc), Door Forced and DOTL are also reported. Securitel can be used with Domestic dialing but not Contact ID.

The Installer can dial in to the system from a PC for Upload/Download when required. Security is provided by a PIN code requirement, and

Callback and Fax Bypass options are available.

With the DTMF Card fitted, a User can dial in to the system, and using their PIN code, can perform Area / Auxiliary / Isolate Zone operations. The DTMF Card also provides DTMF tone confirmation of the operation.

The IQ Plus provides two On-board Serial Ports, allowing connection of a Programming Key or PC for Upload / Download or to a Printer to print Review output.

Timers. An extensive range of Timers are provided catering for; Individual Area Exit/Entry delays, System Siren time, Keypad lockout time and AC fail delay time. Four TimeZones are provided including provision for up to 12 Holiday dates and automatic Daylight Saving adjustment is also catered for. The TimeZones can be used to turn Auxiliaries On and/or Off and to control Areas.

User Functions. In addition to the User operations described in "Types of Users" below, the system provides a number of options to simplify and/or enhance the User operations and feedback. These include; Auto-Isolate on Arming, Quick Arming, Key-switch Arm/Disarm and Zone activity display on LED Terminals.

1.2 TYPES OF USERS

The system has 3 special Users and 93 normal Users. The system can be configured for 4 digit or 6 digit PIN codes depending on the requirements of the site. The normal Users can each be assigned a "User Type" and their "User Areas" to define the items that they can control and the operations that they can perform.

INSTALLER - USER 1:

Can perform all Installer operations, and all Master operations.

MASTER USER - USER 2 (Primary Master):

Can perform all the Master operations and has access to all Areas.

The Master operations include; Edit Users, Walk test Zones, Set Time & Date, Siren/ Strobe/Auxiliary Testing, Fault Analysis, View Software Version, Test Battery and Door Bell Enable/Disable.

The Master User can also perform all User operations. This includes Arming / Dis-arming the system, Isolating Zones and View history.

The Master User automatically has permission to control all the Areas, Zones and Auxiliary outputs in the system.

NORMAL USERS - USER 3 TO USER 95:

Can perform a variety of operations such as Arming / Dis-arming , Isolating Zones and View History with various levels of functionality as defined by the User's "User Type".

Can also be programmed as a Master User (Secondary Master) if required. In a Multi-Area system, a normal User programmed as a Master User (Secondary Master) can only add a new User or edit existing Users who can access a subset of their own Area list.

DURESS CODES.

A User PIN's last digit + 1 will form a DURESS Code.

e.g. If a user's PIN is 1234, then 1235 will trigger a duress alarm, and if the user's PIN is 1239, then 1230 will be a duress code.

1.3 DEFAULT USERS:

The Default Installer PIN and Master PIN Codes should be changed as soon as possible after installation.

When choosing a new PIN Code, ensure that a PIN is chosen that will not be forgotten, while still providing security against unauthorised access.

User Number	Description	Factory Default PIN
User 1	Installer	2345 (or 234567)
User 2	Master User (Primary Master)	0123 (or 012345)
User 3 to 95	General Users (Can be programmed as a Master User)(Secondary Master)	None
User 96	Reserved for system functions (e.g. Reporting Auto-arming etc.)	Not applicable

2. THE IQ TERMINAL

2.1 KEY FUNCTIONS.

PANIC.	Keys 1 & 3 pressed simultaneously.	
FIRE.	Keys 4 & 6 pressed simultaneously.	
MEDICAL.	Keys 7 & 9 pressed simultaneously.	
REX	(Request to Exit) <OFF>key. Used with Access Control on Enhanced Terminals	
PROG/NEXT	Select a Programming Address or system information option.	
ON	Arms System (Single Area system) Arms Area assigned to the Terminal (Multi-Area System, Single Area Terminal mode) Arms all Areas in User's Area List (Multi-Area System, Multi- Area Terminal mode)	
HOME	Arms System in Home mode (Single Area system) Arms Area assigned to the Terminal in Home mode (Multi-Area System, Single Area Terminal mode) Home Arms all Areas in User's Area List in Home mode (Multi-Area System, Multi-Area Terminal mode)	
OFF	Disarms System (Single Area system) Disarms Areas assigned to the Terminal (Multi-Area System, Single Area Terminal mode) Disarms all Areas in User's Area List (Multi-Area System, Multi-Area Terminal mode)	
CLR	Logoff the Terminal. Exit the current Mode of operation)	
ENTER	Saves the data entered in a programming Address.	
NOTE:	AUTO-LOGOFF: The Terminal will automatically logoff the operator if there is no keypad activity detected for 3 Minuets.	

Key Combination Examples (Programmable in General Options)

1, ON	Quick Arm (Single Area System, no pin code)
1, HOME	Quick Arm Home Mode (Single Area System, no pin code)
(N), ON	Quick Arm Area (N = 1-8) (Multi Area System, no pin code)
(N), OFF	Quick DisArm Area (N = 1-8) (Multi Area System, no pin code)
0,ON	Arms all Areas in User's Area List (Multi-Area System, Single Area Terminal mode)
0,HOME	Home Arms all Areas in User's Area List (Multi-Area System, Single Area Terminal mode)
0,OFF	Disarms all Areas in User's Area List (Multi-Area System, Single Area Terminal mode)

2.2 BEEPER INDICATIONS.

2 or 3 Short Beeps:	A User, Master or Installer function was successful.
1 Long Beep:	A User, Master or Installer function has been unsuccessful. When an error is detected, the beeper tones will sound at a lower pitch until a correct operation is successfully performed.
Continuous Short Beeps*:	Entry Delay Timer, Exit Delay Timer or Auto-arm Warning.

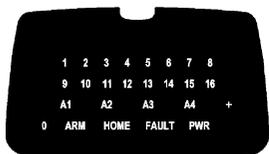
*NOTE:

Single Area systems. All Terminals will beep in response to Exit delay, Entry delay or Auto-arm warnings.

Multi-Area systems. Only Terminals associated with a particular Area will beep in response to that Area's warning functions.

IMPORTANT NOTE: Multi-Area Terminals will beep on warning functions from all Areas.

2.3 LED TERMINAL INDICATIONS.



Lamp	ON	OFF	FLASHING
ZONE Lamps 1 to 16	When the Zone is Unsealed. (If the "Zone activity" option is enabled)	When the Zone is Sealed.	<u>FAST:</u> * When there has been an Alarm / Tamper on the Zone. <u>SLOW:</u> * When the Zone has been Isolated.
AREA Lamps A1, A2, A3, A4	Area is Armed. (Multi-Area mode only)	Area is Dis-armed.	Note: Multi-Area mode only. <u>FAST:</u> * There has been an Alarm in the Area. <u>SLOW:</u> * Area Armed in Home Mode.
ARM	Area/s are armed in Away mode.	System not armed in Away mode.	There has been an alarm in an Area armed in Away mode.
HOME	Area/s are armed in Home mode.	System not armed in Home mode.	There has been an alarm in an Area armed in Home mode.
FAULT ^	A system input is currently in alarm. ^	No system inputs are in alarm.	<u>SLOW:</u> When a System Input has been Isolated. ^
PWR	AC mains OK	AC mains problem.	Missing AC Mains (when battery is connected)
ARM & HOME	-	-	System is in "Master Operations" mode. i.e. NEXT functions.
ARM, HOME & FAULT.	-	-	System is in "User Programming" mode.
ARM, HOME, FAULT & PWR	-	-	System is in "Installer Programming" mode.
0	Used to display values in programming mode.		

* Alarm indication takes priority over Isolate or other indication.
^ See "System Inputs" in the Tables section.

2.4 LCD TERMINAL .

The IQ Standard LCD Terminal has the option to display Area names, Zone names and User names as text. The text is entered into the IQ Upload/Download software (available from <http://www.innerrange.com.au/proddownload.cfm>) which downloads the information into the IQ panel which distributes the information to the terminals. The IQ LCD Terminal holds the text in memory (EEProm), the text is not held in the IQ panel.

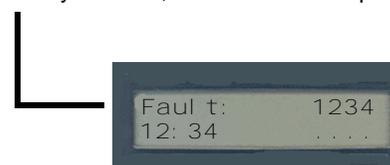
Single Area System, Status Display

Default Area name is "Area 1". The time is displayed, and the area status; **Away armed**, **Home armed**, **Off**, **Exit Delay** and **Fault**.



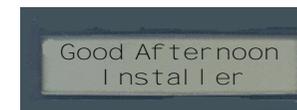
Multi-Area System, Status Display

The time is displayed, and the system status; **Area:** , system off or armed; **Fault:** , a system input is currently in alarm; **Alarm:** a zone input is in alarm.



The status of each area is shown: Armed (**A**), Home Armed (**H**), Off (**.**), Area in exit/entry delay (**E**), and Alarm (**a**).

User Logon; after entering a valid PIN code, a user greeting is displayed, user operations and programming can now proceed.



The IQ Standard LCD Terminal has 4 LED indicators which can be used to provide Area status information. Each LED can be programmed to indicate AREA Armed (LED on) and Area in Alarm (LED flashing). Any of the 4 Areas (8 Areas in the IQ Plus System) can be chosen for display.

2.5 ACCESS CONTROL AND THE IQ PLUS.

REQUIRED EQUIPMENT.

Enhanced Access Terminal V2.01 or greater; Door strike; Relay board for door strike; Wiegand reader. The Terminal installation document 635500EN contains additional information on installation.

DOOR OPTIONS.

The Door (door strike and door reed switch) connected to the Terminal is automatically associated with that Terminal and can be referred to by the Terminal number, for example; Terminal 1 = door 1. Terminals can be associated to areas and will only display zone activity for that Area. (Address 561-564)

All doors will use the same global lock open time (time the door strike is activated) as programmed at address 909 - Terminal Auxiliary time. This must be programmed to a value other than 0 for the door to remain open following a valid request to open. **If a 0 is left at this location the lock will open but close again almost immediately, i.e. remain locked.** Valid entries are from 0 to 255 seconds. (Factory default 5 Seconds).

REQUEST TO EXIT BUTTON.

A "Request to Exit" (REX), is typically a button provided to unlock a door from the inside either bypassing the need to use a reader during low security periods, or because an internal (exit) reader is not required. The "REX" device can also be a PIR or Photo-Electric beam to detect the User approaching the door. If a REX button is fitted it will activate the door for the lock open time (see above). The REX operation is enabled regardless of the state of the associated Area and is entered into Access Review.

The OFF key can also be used as a REX button if it is programmed at address 918.

ADDING A CARD AND USER PIN.

Once fitted and tested, learning the card (entering the card details into the panel) is done exactly the same as adding a User PIN with the exception that the card is also presented (explained in detail in Section 7, the Basic Programming Guide).

A User can have both a PIN and card, accessing the door using either method. A reader need not be fitted if PIN only access is required. The door will open for lock open time following a valid PIN + OFF key.

For higher security applications, both PIN and card can be required to open the door. This option is global and is set at Address 919.

Each door will assume Area control of the Area associated with the Terminal, a Terminal MUST be associated with an Area.

The following general rules apply: (see "Access Control" in Section 8)

- 1) If the User is assigned to an Area that is also associated to the Terminal,
 - (a) If the Area is armed, presenting a credential (card) will disarm the associated Area and open the door. (The event is entered into Access Review).
 - (b) If the Area is disarmed, presenting a credential will open the door. (The event is entered into Access Review)
- 2) If the User is not assigned to the Area associated to the Terminal,
 - (a) If the Area is armed, presenting a credential will not open the door (The event is entered into Access Review).
 - (b) If the Area is disarmed, presenting a credential will open the door (The event is entered into Access Review).

DOOR FORCED

A Door Forced condition is activated when the reed switch goes into alarm without a valid request to open the door, this also causes the Door Forced system input to go into alarm. (The event is entered into Access Review)

An Auxiliary can be used to indicate this system input by setting the Auxiliary type; 131 (door1) -138 (door 8) as described in the Tables-Section 10. This Auxiliary will pulse on for 500ms every 5 seconds till cleared. Door Forced is an Alarm condition and is cleared by using a valid PIN+OFF key.

DOTL

A DOTL (Door open too long) condition is activated when the door is open for longer than a period of time equal to 4 times that of the lock open time set at Address 909. This means that once a valid request to open occurs, the lock timer starts and so does the DOTL timer. Causing the DOTL system input to go into alarm. (The event is entered into Access Review)

An Auxiliary can be used to indicate this system input by setting the Auxiliary type; 141 (door 1) -148 (door 8) as described in the Tables-Section 10. This Auxiliary will pulse on for 500ms every 5 seconds till cleared. DOTL is a warning condition and is cleared by using a valid PIN + OFF key or a valid card badge.

Door Forced and DOTL system inputs will turn on the fault light on the Terminal and LEDs 15 or 16 when a NEXT 13 is performed. (Refer System Inputs)

The Zones Inputs on terminals are used for door reed switch (zone1) and REX button (zone2). Each zone must be fitted with the required device or, if not used, must be terminated with 6k8 resistors. These Zones cannot be used for security zones.

2.6 WIRELESS REMOTE AND THE IQ .

The IQ provides keyless functionality (Wireless Remote) via an RF keyfob (Transmitter) and an RF LAN Module or RF Terminal.

The Keyfob is registered in the RF module or RF Terminal and when a User is assigned to the Keyfob the IQ panel uses the registered information to match the Keyfob and User.

Up to 6 Keyfobs can be programmed for each RF Module or RF Terminal (maximum of 24 Keyfobs) providing;

Arm and Disarm in the User's Area List, Turn Auxiliary 2 on the Control Module ON and OFF and activate Panic by pressing 2 keys simultaneously.

3. PROGRAMMING KEY

3.1 INTRODUCTION.

THE PROGRAMMING KEY.

The IQ Programming Key is a portable non-volatile memory device housed in a convenient "key tag".

The Programming Key allows system programming to be uploaded from the Control Module or downloaded to the Control Module by simply inserting the Programming Key into Serial Port 0 and performing a simple key sequence on the LED Terminal. See below.

A built-in Lamp (embedded in the plastic surface) on the Programming Key visually indicates when data transmission is active.

IQ PROGRAMMING KEY & FLASH INTERFACE.

This device allows the Programming Key to be connected to a PC for transferring Panel data to and from the Upload/Download software.

NOTE: The IQ Programming Key & Flash Interface can also be used to connect a PC to the "Flash" connector (JP8) on the Controller for the purpose of providing a Flash Upgrade of the Controller Firmware version.

Refer to your Inner Range IQ distributor for more details.

3.2 IMPORT DATA FROM THE PROGRAMMING KEY.

This Mode allows the Installer to copy the programming contents of the Programming Key into the Control Module.

IMPORTANT NOTE: The new data will override the existing contents of the Control Module memory.

Connect the Programming Key to Serial Port 0 on the Control Module.

Select the Import Data Mode:

Enter PIN; [n] [n] [n] [n]... , then [NEXT] , then the Mode number; [0] , [9] , [6] .

The Lamp on the Programming Key will flash slowly to indicate data is being copied. The Terminal beeper will sound 3 short beeps if the operation was successful, or 1 long beep if unsuccessful.

3.3 EXPORT DATA TO THE PROGRAMMING KEY.

This Mode allows the Installer to copy the programming contents of the Control Module into the Programming Key.

IMPORTANT NOTE: The Control Module data will override the existing contents of the Programming Key.

Connect the Programming Key to Serial Port 0 on the Control Module.

Select the Export Data Mode:

Enter PIN; [n] [n] [n] [n]... , then [NEXT] , then the Mode number; [0] , [9] , [7] .

The Lamp on the Programming Key will flash quickly to indicate data is being copied. The Terminal beeper will sound 3 short beeps if the operation was successful, or 1 long beep if unsuccessful.

4. PROGRAMMING TECHNIQUES

4.1 INTRODUCTION

User programming is stored in Memory Addresses numbered from 401 to 447. The system programming is stored in Memory Addresses numbered from 500. Programming the system involves three basic steps:

- 1) Logon with the Installer PIN Code.

Then for each item of Data to be programmed;

- 2) Select the Memory Address to be programmed.
- 3) Program the new Data Value or Options for that Address.

4.2 TYPES OF DATA

When in Programming Mode there are two types of data that are stored in the Programming Addresses. The type of Data stored in each Address will depend on the type of parameter being defined.

1) "Value" data. A Numerical Data Value that:

- Selects an Option when there are more than 2 alternatives to select from.
e.g. User Type.
- Defines a Value or Quantity for a specific parameter.
e.g. Entry and Exit Delay times or Number of Dial attempts.
- Defines a Sequence of numbers for a specific parameter.
e.g. PIN codes, Client codes and Telephone numbers.

2) "Option" data.

Data field that allows the Installer to select between two alternatives (Select/De-select, Enable/Disable, Assign/Un-assign, etc.) for up to 8 Options or Items that relate to a particular feature.

e.g. Setting Dialer options, Assigning Areas to a User, Defining options for Individual Zone Inputs, etc.

Refer to Sections 4.4 and 4.5 for further explanation

4.3 SELECTING AND PROGRAMMING THE DATA.

TO SELECT THE ADDRESS OF THE DATA TO BE VIEWED OR EDITED.

1. Key in the Installer PIN Code.
2. Select the Address of the data to be viewed or edited by simply pressing:  followed by the Address number; , ,  (3 digits).

TO VIEW THE DATA.

LED TERMINAL

Flashing Area Lamps will prompt you for each digit of the Address to be entered i.e. A1 = Key in the 1st digit of the Address; A2 = Key in the 2nd digit of the Address; etc.

As each digit is entered, the corresponding Area Lamp will stop flashing and remain on.

ARM, HOME, FAULT & PWR Lamps will Flash to indicate "Programming Mode" as soon as the 1st digit of a Programming Address has been entered. When the Address has been fully entered, the A4 lamp will flash if data is already programmed in that Address while the data will be flashed on the LED's in sequence.

LCD TERMINAL

The description and data are displayed for the current programming location



Pressing  after entering the data will save the data and automatically take you to the Next Programming Field or Address.

Pressing  after entering the data will save the data and automatically take you to the Previous Address.

Pressing  to exit "Programming Mode" and will not save any changes at the current memory Address.

TO EDIT THE DATA.

LED TERMINAL

Flashing Area Lamps will prompt you for each digit of the Address to be entered i.e. A1 = Key in the 1st digit of the Address; A2 = Key in the 2nd digit of the Address; etc.

As each digit is entered, the corresponding Area Lamp will stop flashing and remain on.

ARM, HOME, FAULT & PWR Lamps will Flash to indicate "Programming Mode" as soon as the 1st digit of a Programming Address has been entered. When the Address has been fully entered, the A4 lamp will flash if data is already programmed in that Address while the data will be flashed on the LED's in sequence.

The Data Value can be changed by simply keying in the new data according to the Type of Data. Flashing Zone Lamps will prompt you for each digit of the data to be entered i.e. 1 = Key in the 1st digit of the data; 2 = Key in the 2nd digit of the data; etc.

As each digit is entered, the corresponding Zone Lamp will stop flashing and remain on.

LCD TERMINAL

The description and data are displayed for the current programming location and the new Data will be shown on the display as each character is entered.



Enter the new Data (Value or Option) settings [n] [n] ... (1 to 16 digits*), then [ENTER] (To advance to the Next Address) or [ON *] (To go to the Previous Address)

* Depending on the type of Data required. See 4.3 following.

To clear the current field of all data and settings, ready for new data, press [HOME] .

e.g. If you make a mistake while entering a value, press [HOME] and enter that value again.

Pressing [ENTER] after entering the data will save the data and automatically take you to the Next Programming Field or Address.

Pressing [ON *] after entering the data will save the data and automatically take you to the Previous Address.

Pressing [CLR] to exit "Programming Mode" and will not save any changes at the current memory Address.

4.4 "VALUE" DATA.

The range of Data values that can be stored in a Value Data Address depends on the parameter being programmed. The data can be either a single digit or a multiple-digit number.

e.g. Auxiliary Event Types: 0 to 57. Area Entry Delay (Seconds): 0 to 255.
Primary Telephone No: 16 decimal digits.

DISPLAYING "VALUE" DATA.

LED TERMINAL

Single Digits.

These are numbers between 0 and 16 and are displayed by the Zone Lamps "1" to "16" and the "0" Lamp on the LED Terminal.

Multi digit / Sequential numbers.

(Data values from 17 to 255, and strings of numbers such as PINs & Phone nos.)

These numbers are displayed one digit at a time sequentially via the Zone Lamps and the "0" Lamp. A chirp will sound each time the display steps to the next digit. When the end of the value is reached, 3 short beeps will sound to indicate there are no more digits to display.

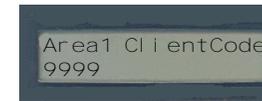
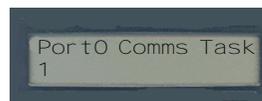
Example. If the existing value at the Address is 120.

- When the Address is entered, The "1" Lamp will flash. The flashing Lamp indicates that this value is a multi-digit number.
- After 2 seconds the "2" Lamp will flash and a chirp will sound.
- After 1 second the "0" Lamp will flash and 3 short beeps will sound.
- The "1" lamp will now flash slowly to prompt for the 1st digit of the new data.

LCD TERMINAL

Single Digit displayed

Multi digit number displayed



PROGRAMMING MULTI-DIGIT NUMBERS.

When programming any Multi-digit number, only one Address is selected regardless of the number of digits to be entered.

Example. To program the data "9 8 7 6 5 4 3 2" as the Primary Telephone Number.

- 1) Enter Installer PIN code; [n] [n] [n] [n]... .
- 2) Press [NEXT], then the Address for the Primary Telephone Number [5] [0] [0] .
Any existing data will now be displayed as described above.
- 3) Enter the new Data string [9] [8] [7] [6] [5] [4] [3] [2], then [ENTER]
- 4) Select the next Address to program, or Exit Programming Mode.

4.5 "OPTION" DATA.

Option data is used to allow the Installer to select between two alternatives (Select/De-select, Enable/Disable, Assign/Un-assign, etc.) for up to 8 Options or Items that relate to a particular feature.

DISPLAYING "OPTION" DATA.

LED TERMINAL

Option Data is displayed on the Zone 1 to 8 Lamps on the LED Terminal.
When a Zone Lamp is ON, the option is Selected. (Enabled or Assigned)
When a Zone Lamp is OFF, the option is De-selected. (Disabled or Un-assigned)

LCD TERMINAL

Option Data Display



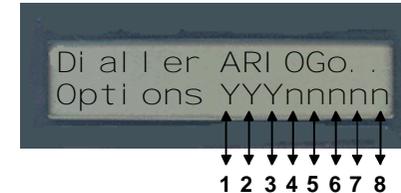
EDITING OPTION DATA.

Option Data is programmed by first selecting the Address of the Data to be edited in the normal manner.

Any number of specific options are then Selected or De-selected by the following method:

- 1) Check the current setting of the option on the Zone Lamps.
- 2) For each option that needs to be changed, Press the option number [n] (1 to 8).
This procedure toggles the setting of the selected option.
i.e. If the option was De-selected, it will be Selected. If the option was already Selected, it will be De-selected.

NOTE: On the LCD terminal the options are displayed as a series of letters, corresponding to the name of each function (refer Section 9 Programming Reference). These options are changed using the same keys as on the LED terminal, that is, keys 1-8.



- 3) When all required changes have been made, press [ENTER] .

To Select ALL available options: Press [9] , then [ENTER] .

To De-select ALL available options: Press [0] , then [ENTER] .

Example. To Enable "Alarms" (Option 1), "Alarm Restores" (Option 2) and "Open Report only after alarm" (Option 4) in "Dialer Options" (Address 506).

- 1) Enter Installer PIN code; [n] [n] [n] [n]... .
- 2) Select the Address for Dialer Options. Press [NEXT], [5], [0], [6] .
The existing data will now be displayed as described above.
- 3) Enable the 3 options required. (Assuming none of the options already enabled)
Press [1], [2], [4], (Zone Lamps 1, 2 and 4 should now be ON on the LED Terminal and Y under option 1(A), 2(R) and 4(O) on the LCD Terminal) then [ENTER] .

LCD Terminal Before



LCD Terminal After

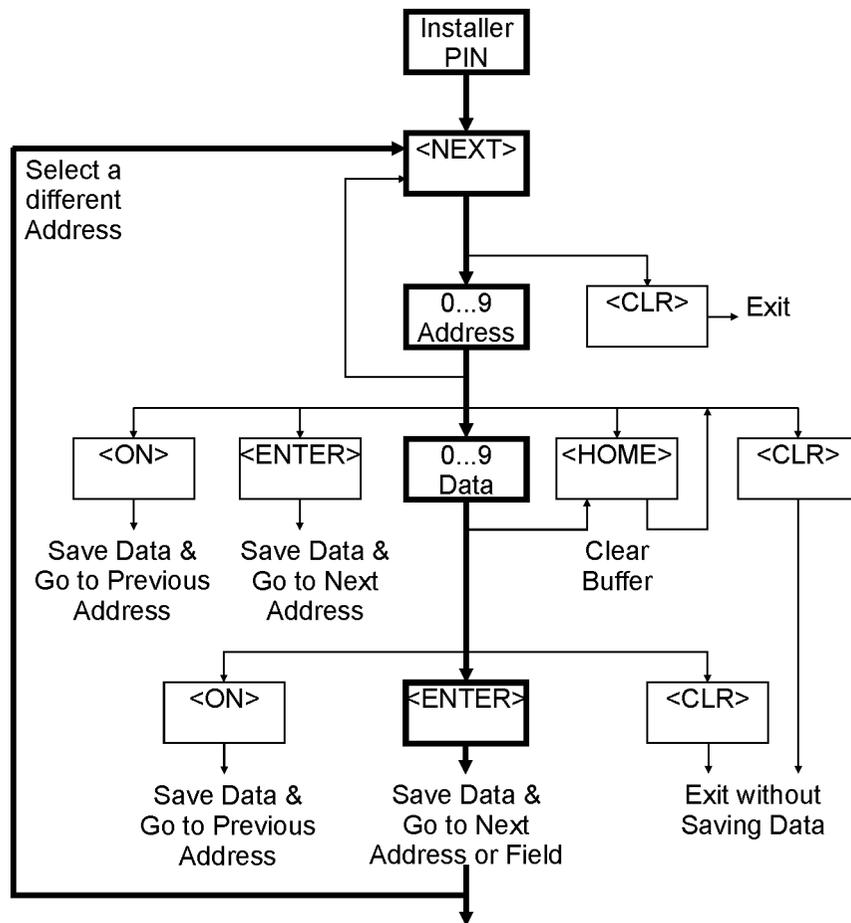


IMPORTANT NOTE: Remember that the same key sequence is used to Disable an option that is already Enabled.

4.6 PROGRAMMING FLOWCHART.

The following flowchart provides an overview of the simple steps involved in programming the system Data and Options.

- The Bold path indicates the typical sequence.
- "<CLR>" can be used at anytime to Exit programming mode without saving changes in the current data field displayed.
- "<HOME>" can be used to clear the buffer of all data, ready for a new data entry.



4.7 PROGRAMMING EXAMPLE

This example shows how Zone 1 would be changed to the "Hand-over" Input Type (2) from the default setting of "Delayed" (1).

Zone 1 Input Type is stored in Address 601.

STEP 1. Logon with the Installer PIN Code.

Enter Installer PIN code; [n] [n] [n] [n]... .

STEP 2. Select the Address to be changed.

Press [NEXT], then [6] [0] [1] .

LED TERMINAL

Flashing Area Lamps will prompt you for each digit of the Address to be entered i.e. A1 = Key in the 1st digit of the Address; A2 = Key in the 2nd digit of the Address; etc.

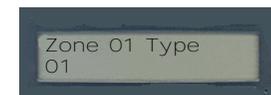
As each digit is entered, the corresponding Area Lamp will stop flashing and remain on.

ARM, HOME, FAULT & PWR Lamps will Flash to indicate "Programming Mode" as soon as the 1st digit of a Programming Address has been entered. When the Address has been fully entered, the A4 lamp will flash if data is already programmed in that Address while the data will be flashed on the LED's in sequence.

(Multi-digit Value data will display sequentially on the LED's. A chirp sounds as each digit is displayed. 3 beeps indicate the end of the data sequence, then the "1" lamp will flash to prompt for the 1st digit of the new data.)

LCD TERMINAL

The description and data are displayed for the current programming location



STEP 3. Enter the new Data Value.

Select the new Input Type; **2** (Handover), then **ENTER**

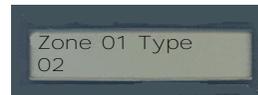
LED TERMINAL

LED '2' flashes then after 'Enter' is pushed LED 'A4' flashes twice.

3 beeps indicate the end of the data sequence, then the "1" lamp will flash to prompt for the 1st digit of the next programming location. The terminal is now at Address 602.

LCD TERMINAL

The description and data are displayed
the data changes when '2' is pushed and
'Enter' moves to the next programming location

**Keys to Remember**

To clear the current field of all data and settings, ready for new data, press **HOME** .

e.g. If you make a mistake while entering a value, press **HOME** and enter that value again.

Pressing **ENTER** after entering the data will save the data and automatically take you to the Next Programming Field or Address.

Pressing **ON *** after entering the data will save the data and automatically take you to the Previous Address.

Pressing **CLR** to exit "Programming Mode" and will not save any changes at the current memory Address.

4.8 DEFAULTING THE SYSTEM.

There are four pre-defined settings available to the installer:

- a) The **Factory Default**, and
- b) Three "8 Zone / Single Area" **Installer presets**:
1-No Dialer **2-Contact ID Dialer** **3-Domestic Dialer.**

CAUTION: Defaulting the system overwrites all configuration values currently programmed in memory.

Full details of all default options are provided in the Factory Default and Installer Presets in the Tables section. The factory default settings are also shown throughout the programming reference section of this manual.

THE INSTALLER PRESETS

1. No Dialler. Provides the common Installer Preset features described below.

2. Contact ID Dialer. In addition to the common features, provides: Reporting Format Contact ID, Alarms, Restores, Isolates are reported via dialler and Opening Report sent only after alarm, Maximum of 10 dial attempts to central station or domestic dialling, 7 days between automatic test reports, a test report will be sent at 1:20AM. This option also requires the programming of a primary and secondary phone number and client account code .

3. Domestic Dialler. In addition to the common features, provides: Reporting Format Domestic Dialler ID, Alarms only are reported via dialler, Maximum of 1 dial attempt only to domestic dialling. This option requires programming of a primary phone number.

The three "8 Zone / Single Area" Installer presets share the following common features:

- Remote connect is enabled.
- 9 rings before the system will answer an incoming call.
- Upload / download is enabled for Port 0 at 9600 Baud.
- All Area Client Codes set to 9999.
- Area 1 Entry delay Time is 30 secs and Exit delay is 60 secs.
- Holiday 1 is 1st Jan; Holiday 2 is 25th Dec; Holiday 3 is 26th Dec.
- End of Line Resistor Value is Type 3-3K3 single EOL.
- Zone 1 is Type 1-Entry/Exit Delayed; Zone 2 is Type 2-Handover.
- Zones 3 to 8 are Type 0-Instant Zones.
- Zones 1 to 8 are set for siren lockout.
- Zones 1 to 8 are in Area 1.

- Time Zone 1 is 0900 to 1700, Monday to Friday.
- Time Zone 2 is 0900 to 1300, Saturday and Sunday.
- Time Zone 3 is 0700 to 2000, Sunday to Saturday; ignore holidays.
- Time Zone 4 is 2000 to 0700, Sunday to Saturday; ignore holidays.
- Aux 0 is Siren Speaker output.
- Aux 1 set as a strobe output; Aux 2 is set as 12v output to follow the Siren.
- General Options 1 enables "Clock sync with Mains", "Zone Alarm Ind after Disarm", "Display zone activity on terminals when disarmed", "Special Siren tone for System Alarms" and "Single Exit beep in Home mode".
- General Options 2 enables "Terminal beeper for Day Alarms" and "Bell Squawk for Remote Key operations".
- General Options 3 will allow "Automatic Battery Testing" and "Pulse Count Handover".
- Siren will be triggered for Cabinet Tamper.
- Dialler will be enabled for AC fail, Low Batt, Cabinet Tamper, System Reset, Siren Monitor & LAN /Batt Fuse.
- Panic, Fire and Medical alarms will activate the Siren and the Dialer.
- Home zone entry time is 90 secs.
- Pulse Count is set to 2 pulse counts for any zone with pulse count.
- Pulse count period is set to 60 secs.
- Siren time is 5 minutes (909), AC delay time is 0 minutes (906).
- Incorrect PIN tries will lockout the keypad for 5 mins (905).
- There will be a 255 seconds warning before an Area auto arms (907).
- If no activity on a zone and auto arm is programmed, Area will re-arm in 30 mins.
- 24 Hour Fire Zone or Smoke Detector Ignore Time is 60 secs.
- Time period allowed for walk test is 30 mins.

DEFAULTING PROCEDURE

The "Default Options" function (Address 098) is used to select one of the Installer presets; "1-No Dialler", "2-Contact ID Dialer" or "3-Domestic Dialler".

NOTE: The "Factory Defaults" (Option 0) can also be selected.

- 1) Enter the Installer PIN code;
- 2) Select the Address for Defaulting the System. Press , , , .
- 3) Select the default option required. Press or or or .
Zone Lamp 1 should be now be ON with Zone Lamp 2 flashing. Then press .

5. USER OPERATIONS SUMMARY.

5.1 GENERAL USER OPERATIONS. (NO PIN CODE REQUIRED)

- NEXT 11 Day Alarm On/Off.**
This operation will toggle the Day Alarm function On and Off.
- NEXT 12 Alarm History.**
Any Zone Inputs that had an alarm during the last Arming period will be displayed on the Zone Lamps.
- NEXT 13 Fault History.**
Any System Inputs that had an alarm during the last 5 Arming periods will be displayed on the Zone Lamps. Flashing lamp indicates Input is currently in alarm.
Refer to the "System Inputs" table on page 79 for details.
- NEXT 14 Zone Self Test History.**
Any Zone Inputs that have failed the Zone Self Test will be displayed on the Zone Lamps.
- NEXT 15 Display Firmware Version.**
The 4 digits of the current Controller Firmware Version will be displayed in sequence. e.g. Sequence 3, 0, 0, 0, = V3.000.
- NEXT 16 Display Door Alarm History.**
Any Door Forced or DOTL Alarm during the last 5 Arming periods will be displayed on the Zone lamps.
- NEXT 19 Display Module Present.**
Any Module present displayed on the LED display. For example "Terminal 1" present, LED 1 illuminated

5.2 USER OPERATIONS REQUIRING PIN CODE ACCESS. (Installer, Master and Arm/Disarm/Isolate User Types ONLY)

- NEXT 21 Isolate / De-Isolate Zone Inputs.**
Zone Lamps indicate Zones that are currently Isolated.
Entering the Zone number followed by will toggle the Zone Isolated and De-Isolated.
Zones can be isolated by any User that has disarm permission for all the Areas that are assigned to the Zone.
System Inputs can be isolated by any User with permission to disarm.
- NEXT 22 Isolate / De-Isolate System Alarms.**
Zone Lamps indicate System Inputs that are currently Isolated.
Entering the System Input number followed by will toggle the Input Isolated and De-Isolated.
Refer to the User's Manual for more information on these functions.

NEXT 23 Activate Walk Test.

Puts the system into Walk Test Mode. Any Zone activation causes Siren squawk and Zone Lamp to flash. Press <CLR> to exit. The system will automatically exit from Walk Test if the "Walk Test Time" (Address 912) expires. Walk Test only monitors for the Seal and Alarm (Un-seal) conditions. No indication of Zone Input Tamper state is provided.

NEXT 24 Auxiliary Control and Test.

Auxiliary number followed by will toggle the Auxiliary Output On and Off.

0 = Siren Speaker output.

3 = Aux 2 (Gen purpose Aux on Controller)

1 = Aux 1 (Strobe output)

4 - 10 = Aux 4 to 10. (Gen purpose Auxiliaries on Expansion card)

NEXT 25 Trigger Test Report.

Triggers a Test Report to the Central Monitoring Station or the nominated "Domestic Dialer" Telephone.

NEXT 26 Activates the Battery Test.

Switches the Battery Charger Off for 5 seconds to test Battery voltage. 3 Beeps at end of Test = Battery OK. One long tone = Battery Voltage Low.

NEXT 27 Answer Call.

Causes the Controller to automatically answer the next incoming call and attempt to establish Upload/Download connection. This operation will over-ride any other programming option that disables a remote Upload/Download connection.

NEXT 31 Primary and Secondary Telephone Numbers.

View / Program the Primary and Secondary numbers. (Installer Only with Contact ID enabled (NEXT 505)).

NEXT 32 Call Divert Telephone Numbers.

View / Program the Diver and Un-Divert numbers. The IQ will dial Call Divert when the system is fully armed and dial the Call Un-Divert number when Disarmed.

6. MASTER USER OPERATIONS SUMMARY.

6.1 MASTER USER OPERATIONS

NEXT 33 View and/or Set the Time and Date.

Current Time & Date will be displayed in the sequence: hh:mm:DD:MM:YY:d. (Hours, Minutes, Day, Month, Year, Day-of-week)

1) Enter the Time data (hh:mm) then ,

2) Enter the Date data (DD:MM:YY) then .

3) Enter the Day of Week (1=Sunday - 7=Saturday) then .

NEXT 4xx User Programming. Refer to the following pages for details.

Refer to the User's Manual for more information on these functions.

6.2 USER PROGRAMMING

Adding or Changing a User

1. Logon.

Enter your PIN code; ...

2. Select the first User number to be added or changed.

Press , , , . Where is the User number (User 02 to User 47).

The <A1> Lamp will flash to indicate the system is ready for the PIN Code or Wireless Remote Key entry.

If a PIN code is already programmed for this User, the corresponding number of Zone Lamps (4 or 6) will be flashing.

3. Enrol the User's Wireless Remote Key. (If required)

Press a button on the Remote Key within 30 seconds of selecting the User number.

Three short beeps will sound to confirm that the Remote Key has been enrolled and assigned to the selected User.

If the Remote Key is already assigned to another User, or is not recognised by the system, one long beep will sound to indicate a problem.

4. Enrol the User's Card. (If required)

Present the card at the attached reader head and observe the tones.
High tones indicate acceptance, low tone indicate rejection of the card.

5. Enter the new PIN Code (may not be required if Wireless or Card used).

A Zone Lamp (1 to 4, OR 1 to 6) will Fast flash to indicate which digit of the PIN code is to be entered.

If the Zone Lamp flashes Slowly, it indicates that a PIN Code is already programmed for this User. If you enter a new PIN number it will replace the existing PIN number.

As each digit is entered, 3 very short beeps will sound to indicate that the entry is accepted, and the next Zone Lamp will now Fast flash for the next digit to be entered.

Enter the new PIN number ... (4 or 6 digits), then press .

When complete:

- Three short beeps will sound to confirm the new PIN number has been programmed.
- If the PIN is rejected, one long beep will sound to indicate a problem.

6. Assign or Change the User Area or Areas.

(Only required if you have a Multi-Area System)

The <A2> Lamp will flash to indicate the system is ready for the Area assignment entry.

The corresponding Zone Lamps (1 to 4) will indicate the Area/s selected.

Press the Area number for each Area that is to be Assigned or Un-assigned to this User.

OPTIONS: 0 All Areas De-selected.

- 1 General Area (Single Area Mode) or Area 1 (Multi-Area Mode) selected.
- 2 Area 2 selected
- 3 Area 3 selected
- 4 Area 4 selected

When the required Areas have been Selected and/or De-selected, press .

e.g. If Area 1 and Area 3 are to be assigned to the User;
(And no Areas are currently assigned)

Press 1, 3, <ENTER>.

3 beeps will sound to confirm the new Area assignment data has been programmed.

7. Assign the User Type.

The <A3> Lamp will flash to indicate the system is ready for User Type selection.

The corresponding Zone Lamp (0 to 9) will indicate the User Type selected.

Select the new User Type number [n] .

USER TYPE:

0	Arm only	Can only Arm the system.
1	Patrol	Can Arm / Can Disarm only after an alarm.
2	Arm/Dis-arm*	Can Arm and Dis-arm the system.
3	Defer Arm Only	Can only perform Timed Disarm.
4	User Auxiliary A	Can only Toggle User Auxiliary A On and Off.
5	User Auxiliary B	Can only Toggle User Auxiliary B On and Off.
6	Arm/Dis-arm/Isolate	Can Arm/Dis-arm the system and Isolate Zones.
7	Master	Can perform all operations above & Master User Operations.
8	Access Only*	Can access an Area associated with a disarmed door
9	Access without Dis-arm	Can allow access to User who has arm/dis-arm rights in an Area

*For further information on these user types see "Access Control" in the "Section 8"

3 very short beeps will sound to indicate that the entry is accepted and the new User Type number will be displayed on the Zone Lamps.

To confirm the selection; Press [ENTER] .

3 beeps will sound to confirm the new User Type has been programmed and the system will automatically advance to the next User number.

8. Add / Change another User or Exit User Programming.

To program or change the next User number simply repeat Steps 3 to 6.

To select another User number to program or change, go back to Step 2.

To exit User Programming; Press [CLR] .

Deleting a User

1. Logon.

Enter your PIN code; [n] [n] [n] [n] ...

2. Select the first User number to be Deleted.

Press [NEXT] , [4] , [n] , [n] . Where [n] [n] is the User number (User 03 to User 47).

The <A1> Lamp will flash to indicate the system is ready for the PIN Code or Wireless Remote Key/Access Card entry.

3. Delete the User.

If a PIN code is already programmed for this User, the corresponding number of Zone Lamps (4 or 6) will be flashing.

Zone Lamp 1 will Fast flash to prompt for the first digit of the PIN code.

Press [0] then [ENTER] .

Three short beeps will sound to confirm that the PIN code and/or Keyfob/Card data has been deleted and the User Type set to "0".

4. Delete another User or Exit User Programming.

To delete the next User number simply repeat Step 3.

To select another User number to delete, go back to Step 2.

To exit User Programming; Press [CLR] .

7. BASIC PROGRAMMING GUIDE.

1 ZONE TO 16 ZONE BURGLARY ALARM SYSTEM.

The Programming Sequence beginning on the following page takes the Installer through the steps required to program a typical Burglary Alarm System. Programming options for Multi-Area systems, Access Control and Off-site reporting are included.

In many cases system programming can be completed by following these steps.

Where more advanced programming is required, follow this Basic Programming Guide first, then refer to the programming procedures found in Section 8 - "Programming of Advanced Features" .

IMPORTANT NOTES:

- 1) It is highly recommended that the system is fully defaulted to the factory presets as described in Step 1 before the rest of the programming sequence is performed.
- 2) In the database fields described, only the options relevant to basic system programming are shown. In many cases other options are available. Simply ignore any options not listed. These are not relevant to basic programming and are explained in the appropriate applications in Section 8 - "Programming Advanced Features".
- 3) Section 9 - "Programming Reference" can be referred to for extra details on any option when required.

INSTALLATION NOTES:

- 1) If Siren and Strobe are to be used, it is recommended that:
 - An 8 Ohm Siren Speaker is connected between "DET+" and "SPK" on connector T5 as shown in the Installation guide. (Aux 0)
 - A 12V Strobe is connected as follows: Strobe + to "DET+", Strobe - to "OUT 1" on connector T5 as shown in the Installation guide. (Aux 1)

If you prefer to program the system by following the Address locations in numerical order, go to Section 9 - "Programming Reference"

How to Enter Data. Select Address: Key in the Installer PIN Code: Press then enter the 3 digit Address (A1 to A3 Lamps will flash to prompt for each digit). The current Data will be displayed.
 Enter Data: Enter the new Data .. (1-16 digits) OR Option/s to Select/De-select , then . **NOTE:** clears the current field of all data or settings ready for new data.

1. DEFAULT THE SYSTEM.

- a) Logon to the Terminal using the Installer PIN code and select DEFAULTING THE CONTROL MODULE. **NEXT 098**
 -Enter PIN, <NEXT>, 0, 9, 8.
- b) Select the Default Option. **! CAUTION: This option completely erases all current programming.**
 - n, <ENTER>. 0: Completely resets the database to Factory Default settings, including the Installer Code and Master Code.
 Where "n" is the Default option. 1, 2 or 3: Completely resets the database to one of the Installer Presets, including the Installer Code and Master Code.
 See page 16 "Defaulting the system" and the "Factory Defaults" Table on page 85 for details.
- c) Reset the Control Module.
 Disconnect the AC Supply input and the Battery from the Control Module. Wait 5 seconds, then Re-connect power.

2. SELECT THE END-OF-LINE RESISTOR TYPE. **NEXT 600**
DEFAULT: Option 3 - 3k3 Single End-of-Line.

END-OF-LINE RESISTOR TYPES:

Single EOL: 0 -1k 1 -1k5 2 -2k2 3 -3k3 4 -3k9 5 -4k7 6 -5k6 7 -6k8 8 -10k 9 -12k 10 -22k
 Dual EOL: 11 -2k2, 2k2 12 -2k2, 6k8 13 -3k3, 6k8 14 -10k, 10k (Provides Tamper state. 1st Value is Series Resistor, 2nd Value is Resistor across contacts)
 Zone Doubled: 15 -1k, 3k3, 6k8 Zone doubled 16 -1k, 3k3, 6k8 Zone doubled (no seperate tamper state) See installation manual for details.

3. PROGRAM THE ZONE TYPE/S. **NEXT 601 to 616**

DEFAULT: Zone 1; Type 1-Delayed. Zone 2; Type 2-Handover Zones 3 to 16; Type 0-Instant.

Program the new Zone Type for Zones that are not "Instant" Zones.

Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Address	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616

Zone Types:

0	Instant	1	Delayed	2	Handover	3	Away Instant / Home Isolate
4	Away Instant / HomeDelay	5	Away Delay / Home Isolate	6	Away Delay / Home Delay	7	Away Delay / Home Instant
8	Away Handover / Home Isolate	9	Away Handover / Home Delay	10	24 Hour Burglary	11	24 Hour Fire
12	24 Hour Panic	13	24 Hour duress	14	KeySwitch Arm	15	KeySwitch Home
16	Delay / Force Arm	17	Handover / Force Arm				

4. PROGRAM ANY ADDITIONAL BASIC OPTIONS FOR ZONE INPUTS.

NEXT 651 to 666

Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Address	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666

1	Silent	When selected, Siren is not activated when an alarm is triggered on this Zone. (NOTE: "Silent" over-rides "Siren Lockout")
2	Siren Lockout	Zone will only trigger the Siren for the number of times specified in the "Siren Swinger Shutdown Count". (Address 013)
7	Change Sense (Normally Open Contacts)	The "Sealed" and "Alarm" states are swapped so that an alarm is triggered when an Open to Closed transition occurs on the detector contacts. May be required for smoke detectors, etc.

5. PROGRAM THE SIREN SWINGER SHUTDOWN COUNT.

NEXT 913

DEFAULT: 16

(Only required if the "Siren Lockout" option is selected for any Zones in the Zone Options above)

Program the number of times (0 to 255) the Siren can be triggered by a Zone Input in a single Arming period before Siren Lockout occurs. (The counter is reset when the Area is turned Off)

6. ENABLE/DISABLE THE SYSTEM INPUT ALARMS THAT ARE REQUIRED TO ACTIVATE THE SIREN.

NEXT 897.

1	AC Fail.	3	Cabinet Tamper. (Enabled by default)	5	Comms Fail / System Reset / Real-time Clock Problem.	7	LAN Fuse / Battery Fuse.
2	Low Battery	4	Keypad Lockout.	6	Siren Monitor		

7. ENABLE/DISABLE THE KEYPAD EMERGENCY ALARMS THAT ARE REQUIRED TO ACTIVATE THE SIREN.

NEXT 899.

1	Panic Alarms will activate the Siren.	Enabled by default
3	Fire Alarms will activate the Siren.	Enabled by default
5	Medical Alarms will activate the Siren.	Enabled by default

8. PROGRAM THE BASIC SYSTEM TIMERS.

- HomeGuard Time.** **DEFAULT: 90 Seconds.** **NEXT 900**
 Program a value from 0 to 255 Seconds. Sets the Home Zone Entry Delay time for the "Home Delayed" function in Zone Types 4, 6 & 8.
- Siren Time.** **DEFAULT: 5 Minutes.** **NEXT 904**
 Program a value from 0 to 255 Minutes.
- Keypad Lockout Time.** **DEFAULT: 5 Minutes.** **NEXT 905**
 Program a value from 0 to 255 Seconds. Sets the time that keypad operation will be disabled after 5 incorrect login (PIN Code) attempts.
- AC Report Delay Time.** **DEFAULT: 0 Minutes.** **NEXT 906**
 Program a value from 0 to 255 Minutes. Sets the time that the AC must be continuously disconnected before an AC Fail alarm is generated.
- Siren Holdoff Time.** **DEFAULT: 0 Seconds.** **NEXT 910**
 Program a value from 0 to 255 Seconds. Sets the time that the activation of the External Siren will be delayed after an alarm occurs.
- Fire Zone (Smoke Detector) Ignore Time.** **DEFAULT: 60 Seconds.** **NEXT 911**
 Program a value from 0 to 255 Seconds. Sets the time that activity on "24 Hour Fire" Zone Types will be ignored after a Smoke Detector Reset occurs.

9. ENABLE/DISABLE ANY BASIC GENERAL SYSTEM OPTIONS THAT ARE REQUIRED FROM "GENERAL OPTIONS 1". **NEXT 890**

	Option	Default	Description
1	Auto-Isolate on Arming.	No	If selected, unsealed Zones will automatically isolate when the Area is Armed at the end of the Exit Delay.
2	Quick Arming.	No	If selected, no PIN Code required for arming Areas.
3	Force Arm Areas.	No	If selected, Area will Arm regardless of any unsealed Zones. If "Auto-Isolate on Arming" is selected, any unsealed Zones will be Isolated. If not, unsealed Zones will go into alarm.
4	Clock Synchronized to 50Hz AC Mains.	Yes	Only Disable if Mains supply frequency is not stable, or if Controller is only powered by a DC supply.
5	Zone Alarm indication after Disarm.	Yes	Terminal automatically goes to Alarm History Display when Disarmed if an Alarm has occurred in that Area.
6	Display Zone activity when Disarmed.	Yes	Enables display of Zone activity via the Terminal Zone LED's when Area/System is Disarmed.
7	Special Siren Tone for System Inputs	Yes	Special Siren Tone used for System Inputs that are programmed to activate the Siren. No = Normal Burglary Siren Tone. (Default setting) Yes = 1 Sec bursts for 4.25 minutes unless cancelled by PIN Code.
8	Single Exit Beep in Home Mode.	Yes	If selected, Exit beeps are replaced with a single beep at start of Exit Delay when Armed in Home Mode.

How to Enter Data. Select Address: Key in the Installer PIN Code; Press **NEXT** then enter the 3 digit Address **'n'** **'n'** **'n'** (A1 to A3 Lamps will flash to prompt for each digit). The current Data will be displayed.
 Enter Data: Enter the new Data **'n'** **'n'** .. (1-16 digits) **OR** Option/s to Select/De-select **'n'**, then **ENTER**. **NOTE:** **HOME** clears the current field of all data or settings ready for new data.

10. PROGRAM THE CURRENT TIME AND DATE. (Master User Operation)

NEXT 33

Set the Real-Time Clock.

The Time, Date and Day of Week are programmed in 3 separate fields in the following order: hh:mm (1st Field); DD:MM:YY (2nd Field); day (3rd Field)
 i.e. Hour, Hour; Minute, Minute; Day, Day; Month, Month; Year, Year; Day Of Week: (Sunday=1, Monday=2, Tues=3, Wed=4, Thurs=5, Fri=6, Saturday=7)

Key in the data for the current Field, then press <ENTER> to save the data in the current Field and advance to the next Field.

- e.g. 1) 07:24 AM, 5th June, 2003. Monday. 0, 7, 2, 4, <ENTER>; 0, 5, 0, 6, 0, 3, <ENTER>; 2, <ENTER>.
 2) 05:15 PM, 20th September, 2004. Thursday. 1, 7, 1, 5, <ENTER>; 2, 0, 0, 9, 0, 4, <ENTER>; 5, <ENTER>.

11. PROGRAM THE DAYLIGHT SAVING START AND END DATES.

NEXT 590 to 595

Address	Parameter	Range	Default	Address	Parameter	Range	Default
590	Daylight Saving Start Month	0 - 12	0	593	Daylight Saving End Month	0 - 12	0
591	Daylight Saving Start Week	1 - 5	5	594	Daylight Saving End Week	1 - 5	5
592	Daylight Saving Day-of-week In Start Week	1 - 7	1	595	Daylight Saving Day-of-week In End Week	1 - 7	1

1 - Sunday 2 - Monday 3 - Tuesday 4 - Wednesday 5 - Thursday 6 - Friday 7 - Saturday

12. ENABLE THE STROBE. (IF A STROBE IS CONNECTED TO "OUT1")

NEXT 801

The Strobe output (OUT1) on the Controller is controlled by Auxiliary 1.

To enable the Strobe output, assign Event Type 1 - Burglary Alarm (Strobe), to Auxiliary 1 at Address 801.

Single Area System.
Go to Step 14a.

NO

Is the system a Multi-Area system?

YES.

Multi Area System.

13. PROGRAM THE MULTI-AREA GENERAL OPTIONS.
NEXT 891

	Option	Default	Description
1	Multi Area system.	No	
4	All Areas Siren Off control.	No	Any User with Disarm privileges can cancel Siren.

14A. ASSIGN AREA 1 TO ALL ZONES USED. NEXT 701 to 716
DEFAULT: Area 1 assigned to Zones 1 to 8.

Assign Area 1 to all the Zones that are used in the system by enabling Option 1 (Area 1) in the relevant Addresses from 701 to 716.

Zone	1	2	3	4	5	6	7	8
Address	701	702	703	704	705	706	707	708
Zone	9	10	11	12	13	14	15	16
Address	709	710	711	712	713	714	715	716

14B. ASSIGN THE REQUIRED AREA/S TO ZONES.
NEXT 701 to 716

DEFAULT: Area 1 assigned to Zones 1 to 8.

Assign the required Area/s to all the Zones that are used in the system by enabling the Options in the relevant Addresses from 701 to 716.
NOTE: Normally, only one Area is assigned to a Zone.

Zone	1	2	3	4	5	6	7	8
Address	701	702	703	704	705	706	707	708
Zone	9	10	11	12	13	14	15	16
Address	709	710	711	712	713	714	715	716

1 - Area 1 assigned. 3 - Area 3 assigned.
2 - Area 2 assigned. 4 - Area 4 assigned.

How to Enter Data. Select Address: Key in the Installer PIN Code; Press **NEXT** then enter the 3 digit Address **'n'** **'n'** **'n'** (A1 to A3 Lamps will flash to prompt for each digit). The current Data will be displayed.
Enter Data: Enter the new Data **'n'** **'n'** .. (1-16 digits) **OR** Option/s to Select/De-select **'n'**, then **ENTER**. **NOTE:** **HOME** clears the current field of all data or settings ready for new data.

Single Area System

15A. PROGRAM AREA 1 ENTRY DELAY. NEXT 531
DEFAULT: 30 Seconds
 Program a value from 0 to 255 Seconds.

PROGRAM AREA 1 EXIT DELAY. NEXT 541
DEFAULT: 60 Seconds
 Program a value from 0 to 255 Seconds.

Go to Step 17.



Multi-Area System

15B. PROGRAM AREA ENTRY DELAYS AS REQUIRED.
DEFAULT: 30 Seconds
Area 1 NEXT 531
Area 2 NEXT 532
Area 3 NEXT 533
Area 4 NEXT 534
 Program a value from 0 to 255 Seconds.

PROGRAM AREA EXIT DELAYS AS REQUIRED.
DEFAULT: 60 Seconds
Area 1 NEXT 541
Area 2 NEXT 542
Area 3 NEXT 543
Area 4 NEXT 544
 Program a value from 0 to 255 Seconds.

16. PROGRAM THE TERMINAL ASSOCIATED AREA/S.
Terminal 1 NEXT 561
Terminal 2 NEXT 562
Terminal 3 NEXT 563
Terminal 4 NEXT 564

This determines the Area used for Arming/Disarming operations, Zone Lamp display and Entry/Exit warnings. One of the following options can be selected:

- 0 - Multi-Area (All Areas are associated with the Terminal) DEFAULT.
- 1 - Area 1 is associated with the Terminal.
- 2 - Area 2 is associated with the Terminal.
- 3 - Area 3 is associated with the Terminal.
- 4 - Area 4 is associated with the Terminal.

17. ENABLE/DISABLE REMOTE CONNECT FOR UPLOAD/DOWNLOAD.

Select the Remote Connect Option.

DEFAULT: 1 - Remote Connect Enabled

NEXT 512

0	Remote Connect not allowed.
1	Remote Connect Enabled. (Default)
2	Remote Connect Enabled with Callback.

Program the number of Rings to Answer - If Option 1 or 2 selected above.

DEFAULT: 9

NEXT 513

Program the number of Rings. A value in the range of 3 to 16 Rings may be programmed.

Enable an Answering Machine (Fax) Bypass option if required.

DEFAULT: 0 - Disabled

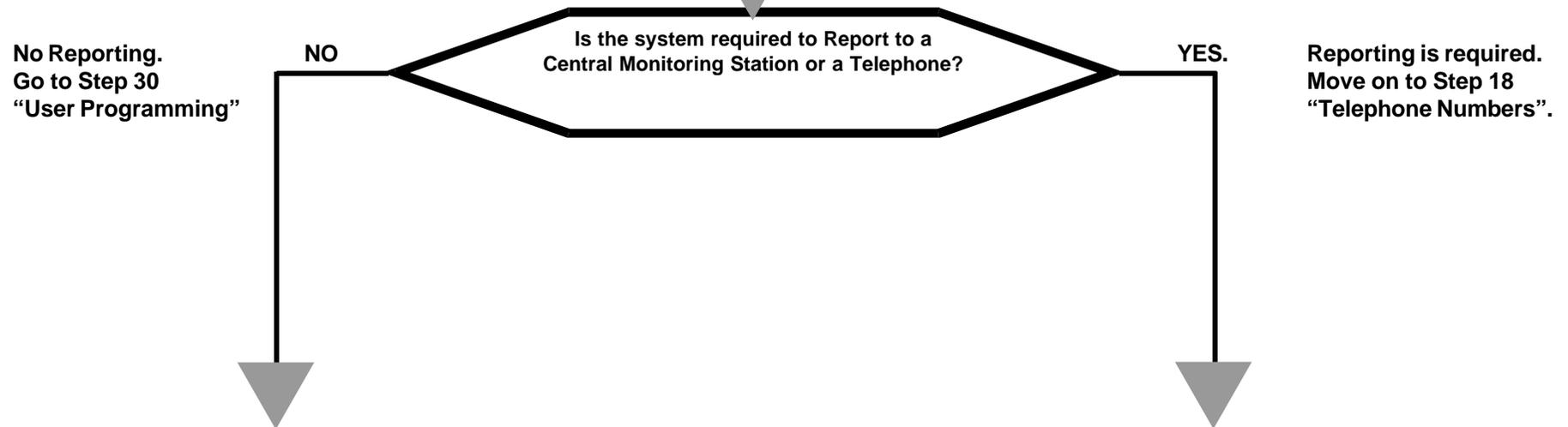
NEXT 514

0	Disabled.	2	Follow-on time = 30 Seconds.
1	Follow-on time = 10 Seconds.	3	Follow-on time = 60 Seconds.

Callback Telephone Number - If Remote Connect Option 2 is selected.

NEXT 504

Program the Telephone number of the Remote Computer. Up to 16 digits allowed. See Step 18 on page 29 for programming information.



How to Enter Data. Select Address: Key in the Installer PIN Code; Press **NEXT** then enter the 3 digit Address **'n' 'n' 'n'** (A1 to A3 Lamps will flash to prompt for each digit). The current Data will be displayed.
 Enter Data: Enter the new Data **'n' 'n'** .. (1-16 digits) **OR** Option/s to Select/De-select **'n'**, then **ENTER**. **NOTE:** **HOME** clears the current field of all data or settings ready for new data.

**No Reporting.
Go to Step 30.
"User Programming"**

Contact ID or Domestic Dialer Reporting.

18. PROGRAM THE PRIMARY AND SECONDARY TELEPHONE NUMBERS.

Primary Telephone Number.

Program the Primary Telephone number for Reporting. Up to 16 digits allowed.

NEXT 500

Secondary Telephone Number.

If required, program a Secondary Telephone number for Reporting. Up to 16 digits allowed.

NEXT 501

Programming Telephone number digits:

0 to 9 = 0 to 9

10 = *

11 = #

12 = 4 Second pause

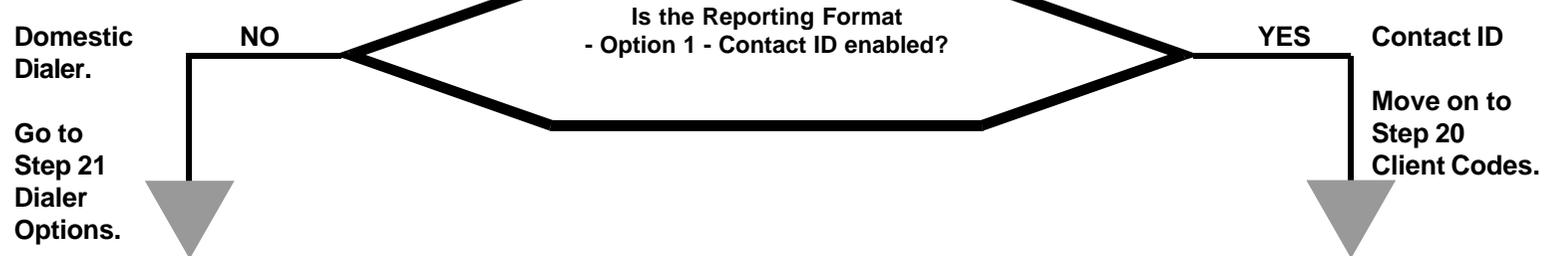
Multi-digit numbers are entered by pressing the <OFF> key. e.g. To program a #, Press <OFF>, 1, 1.

19. SELECT THE REPORTING FORMAT.

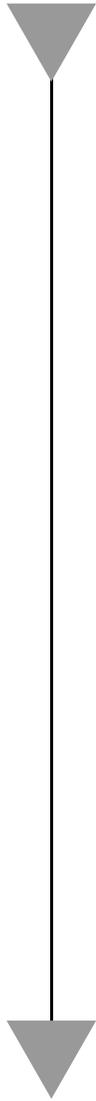
NEXT 505

1	Contact ID.	Reports to a Central Monitoring Station in Contact ID format via the PSTN Line connection.
2	Domestic Dialer.	Reports to a private telephone with simple tone beeps via the PSTN Line connection.
3	CFSK	Not available in this version
4	Securitel	Reports Securitel via Port 0 or Port 1 (see Section 8 Programming Advanced Features)
8	Dual Reporting	Reports to <u>both</u> of the programmed telephone numbers in Contact ID and/or Domestic Dialer formats.

Note: If Dual Reporting is required, select Option 8 FIRST. Refer to Programming Advanced Features Section 8 and Programming Reference, Section 9 for further details.



**No Reporting.
Go to Step 30
"User Programming"**



23. PROGRAM THE MAXIMUM DIAL ATTEMPTS. NEXT 508
DEFAULT: 8 Attempts

Program the Maximum number of Dial Attempts from 1 to 16.
! CAUTION: Communications Authority Regulations limit the maximum number of dial attempts.
 In Australia the ACA specify a limit of 10 Attempts.

24. PROGRAM THE TEST REPORT OPTIONS.

Test Report Period DEFAULT: 7 NEXT 509
 Program the number of Days between Test Reports from 0 (No Test Report) to 255.

Program the Time of Day when the Test Report will be transmitted.

Test Report Hour DEFAULT: 3 NEXT 510
 Program the Hour value from 0 to 23.

Test Report Minute DEFAULT: 30 NEXT 511
 Program the Minute value from 0 to 59.

25. PROGRAM THE DIALER LOCKOUT OPTION FOR ZONE INPUTS IF REQUIRED. NEXT 651 to 666

Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Address	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666

3	Dialer Lockout	Zone will only trigger the Dialer for the number of times specified in the "Dialer Swinger Shutdown Count". (Address 914)
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**No Reporting.
Go to Step 30
"User Programming"**

26. PROGRAM THE DIALER SWINGER SHUTDOWN COUNT. NEXT 914
DEFAULT: 16
(Only required if the "Dialer Lockout" option is selected for any Zones in the Zone Options in Step 25 above)

Program the number of times (0 to 255) the Dialer can be triggered by a Zone Input, in a single Arming period, before Siren Lockout occurs.
 (The counter is reset when the Area is turned Off)

27. ENABLE/DISABLE ANY GENERAL OPTIONS THAT ARE REQUIRED FROM "GENERAL OPTIONS 2". NEXT 891

	Option	Default	Description
6	Delay Siren until Comms complete.	No	Siren operation will not be initiated until a report has been successfully sent, or a Comms Fail alarm generated.
8	Dialer enabled in Home Mode.	No	If selected, Alarms and Open/Close reports will be sent for Areas armed in Home Mode.

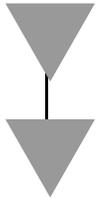
28. ENABLE/DISABLE THE SYSTEM INPUT ALARMS THAT ARE REQUIRED TO ACTIVATE THE DIALER. NEXT 898.

	Option	Default
1	AC Fail.	Yes
2	Low Battery.	Yes
3	Cabinet Tamper.	Yes
4	Keypad Lockout.	No
5	Comms Fail / System Reset.	Yes
6	Siren Monitor.	Yes
7	LAN Fuse / Battery Fuse.	Yes
8	Zone Self-Test Fail.	No

	Option	Default
15	Door Forced	NO

How to Enter Data. Select Address: Key in the Installer PIN Code; Press **NEXT** then enter the 3 digit Address **[n] [n] [n]** (A1 to A3 Lamps will flash to prompt for each digit). The current Data will be displayed.
 Enter Data: Enter the new Data **[n] [n]** .. (1-16 digits) **OR** Option/s to Select/De-select **[n]**, then **ENTER**. **NOTE:** **HOME** clears the current field of all data or settings ready for new data.

**No Reporting.
Go to Step 30
"User Programming"**



29. ENABLE/DISABLE THE KEYPAD EMERGENCY ALARMS REQUIRED TO ACTIVATE THE DIALER.

NEXT 899.

	Option	Default
2	Panic Alarms will activate the Dialer.	Yes
4	Fire Alarms will activate the Dialer.	Yes
6	Medical Alarms will activate the Dialer.	Yes
7	Duress Alarms will activate the Dialer.	No

Note: When Securitel Reporting is used, the selected events at 899 will be reported via Securitel



30. PROGRAM THE USERS (Wireless Remote Key + Card)

An Installer Code or Master User Code must be used to program the Users.

Master: NEXT 402
Other Users: NEXT 403 to 495

Program a User.

1) Key in your PIN, then Select the User Number. Press **NEXT**, **4**, **n**, **n**. (402 = Master. 403 to 495 = User 3 to User 95), a User can have a Wireless Remote and/or a PIN **OR** a Card and/or a PIN. A seperate User Number is required if a User has a Wireless Remote and a Card (different PIN numbers).

2a) Wireless Remote Key (if Required, used with Enhanced RF Terminals or RF Module)

Enrol the User Wireless Remote Key by pressing a button on the Remote Key within 30 seconds of selecting the User number.

Three short beeps will sound to confirm that the Remote Key has been enrolled and assigned to the selected User.

If the Remote Key is already assigned to another User, or is not recognised by the system, one long beep will sound to indicate a problem.

OR

2b) User Card (if required, used with Enhanced Access Terminals)

Present the card at the attached reader head and observe the tones.

High tones indicate acceptance, low tone indicate rejection of the card.

Step 30 Continued Next Page



30. PROGRAM THE USERS (Wireless Remote Key + Card) cont.

3) **User PIN number** (if required, must be entered if a Remote or Card is not used)

Enter the new PIN number [n] [n] [n] [n]... (4 or 6 digits), then press [ENTER].

4) Press the Area number/s [n] for each Area to be Assigned to this User (0=All Areas De-selected), then press [ENTER].

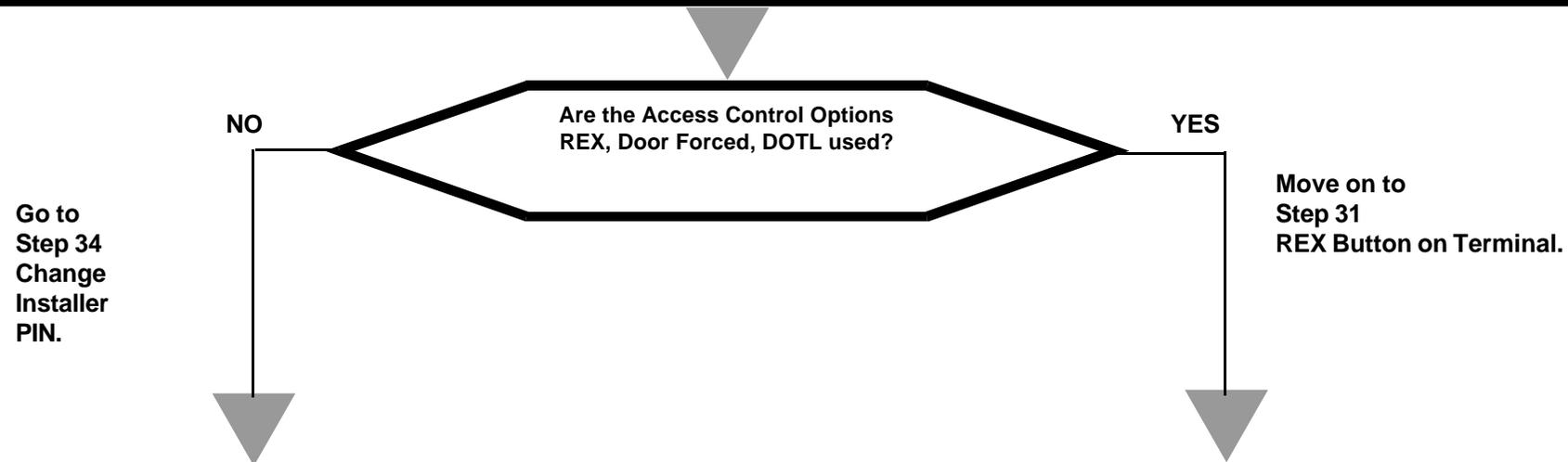
5) Select the new User Type number [n], then press [ENTER]. See table below.

0	Arm Only.	1	Patrol. Arm / Disarm only after an alarm.		
2	Arm / Disarm.	3	Defer Arm Only.	4	Toggle User Auxiliary A
5	Toggle User Auxiliary B	6	Arm / Disarm / Isolate.	7	Master.
8	Access Only	9	Access Without Disarm		

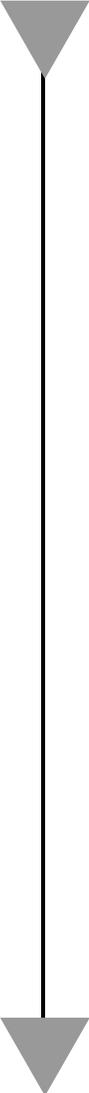
Delete a User.

1) Key in your PIN, then Select the User Number. Press [NEXT], [4], [n], [n].

2) Press [0] then [ENTER].



**No Access Options.
Go to Step 34
“Change Installer PIN”**



31. REX BUTTON ON TERMINAL

An Installer Code or Master User Code must be used to program this option

- 1) Key in your PIN, then Press **NEXT**, **9**, **1**, **8**, then **1** **ENTER** to enable (**0** to disable), default is disabled
This option enables the OFF key on the Terminal to act as a REX button

32. DOOR FORCED

An Installer Code or Master User Code must be used to program this option

Programming the DOOR FORCED system input for DOOR 1, to operate an auxiliary.
This option can require the use of the plug-on auxiliary board

- 1) Key in your PIN, then Press **NEXT**, **8**, **1**, **0**, then **1**, **3**, **1** then **ENTER**

This assigns event type 131 to Aux 10, when the door reed for DOOR1 goes into alarm without a valid request to open the door, an output on auxiliary 10 will occur. Cleared with a valid PIN + OFF key.

33. DOOR OPEN TOO LONG (DOTL)

An Installer Code or Master User Code must be used to program this option

Programming the DOTL system input for DOOR 1, to operate an auxiliary.
This option can require the use of the plug-on auxiliary board

- 1) Key in your PIN, then Press **NEXT**, **8**, **0**, **9** then **1**, **4**, **1** then **ENTER**

This assigns event type 141 to Aux 9, when the door reed for DOOR1 is open for longer than a period of time equal to 4 times that of the lock open time set at address 909. Cleared with a valid PIN + OFF key or valid card badge.



34. CHANGE THE INSTALLER PIN CODE.

NEXT 401

This should be done before the system commissioning is completed and system operation is handed over to the client.
Ensure that a new PIN code is chosen that will not be forgotten, while still providing security against unauthorised access.
Follow the Steps of "Program a User" above. Note that Area Selection and User Type cannot be changed for the Installer Code.

Congratulations!

If you have basic system requirements you may have finished your programming.

To enhance the system with any of the many additional features available, the next Section of the manual "Programming of Advanced Features" provides step-by-step instructions for programming each individual feature.

Refer to the table of contents on the following page for a list of the features available.

8. PROGRAMMING OF ADVANCED FEATURES.

The following features can be programmed to operate in addition to the Primary system features already described in the Basic Programming Guide.

The programming procedures in this section assume that the system has already been programmed according to the procedures in Section 7 -"Basic Programming Guide".

Page	Feature	Description
38	Access Control	Access Review to be written to General Review, Siren output when Door Forced alarm, Door Forced & DOTL reporting to the dialler.
39	Auto-Arm / Auto Disarm.	TimeZones can automatically Arm and/or Disarm Areas in Away or Home mode and provide auto-arm warnings if required.
40	Auxiliary to Follow a TimeZone	TimeZones can control Auxiliary outputs for automatic control of ancillary devices such as lighting, irrigation, pool filters, etc.
40	Battery Testing.	Automatic battery testing can be performed every 8 hours and/or on Area arming to ensure continuous operation if the AC power fails
41	Callback for Remote Connect.	Requirement for the system to callback a pre-programmed number to establish remote connection for Upload/Download.
41	Call Forwarding.	The system can dial your call divert number when armed and the un-divert number when disarmed.
41	Computer connection (Local)	A computer can be connected directly to the Controller via the on-board Serial Port for Upload/Download.
41	Computer Connection (Local) Printer	A printer can be directly connected to the Controller via the on-board Serial Port
42	Day Alarm.	A Zone Input can operate an Auxiliary output for activating Door Bells, lights, etc. when disarmed.
42	Defer Arming	Allows automatic arming if no movement is detected for a specified period to ensure that an Area is not left disarmed.
42	DTMF Remote Control	Remote Control of Areas and Auxiliaries can be provided from any touch-tone (DTMF) telephone.
42	Keyswitch Arming and Disarming.	Keypswitches can be used to Arm and/or Disarm the system in addition to, or in place of, PIN Codes or Wireless Remote Keys.
43	Securitel Reporting Format	Securitel Communications task and Reporting Format
44	Pulse Counting.	Provides more sophisticated monitoring of detection devices that require verification of an abnormal condition.
44	Siren output to operate as an Auxiliary.	The Siren Speaker output can be used as a normal Auxiliary output if required.
44	Six Digit PIN Codes.	Forces all PIN Codes programmed to be 6 digits in length for a higher level of User verification integrity.
44	Smoke Detector Reset	User PIN Code operation to momentarily activate an Auxiliary output to reset latching Smoke Detectors.
44	Sub Areas.	Area 4 can be defined as a Sub-Area (or common Area) allowing it to be armed/disarmed by any, or all, of the other Areas.
45	User Auxiliaries	PIN Codes can be programmed for the sole purpose of controlling one of 2 "User" Auxiliaries.
45	Walk Testing.	Allows Users to manually test detection devices.
46	Wireless Remote Control.	Wireless Remote Keys can be assigned to the system for Area control, Auxiliary control and Panic alarm.
46	Zone Self Testing.	Zones can be tested when the Area is disarmed to check for masking or other problems.

ACCESS CONTROL

Access Review to General Review Option.

Setting General options to allow Access Review to be written to General Review

- 1) Enable Option 3, in General Options 4.

NEXT 893

This option should be enabled with caution because of the limited size of the buffer, Access events could force General events out of the buffer before they can be reviewed.

Default setting is disabled, requiring the Upload/Download software addon to view the Access Review.

Door Forced to trigger Siren.

The Door Forced system input can be set to enable the Siren output when there is a Door Forced alarm.

- 1) Enable Option 8, in System Input Siren Enable.

NEXT 897

Door Forced to Report via Dialler.

The Door Forced system input can be set to enable reporting to the dialler.

- 1) Enable Option 1, in General options 4.

NEXT 893

Door Open Too Long Report via Dialler.

The DOTL system input can be set to enable reporting to the dialler.

- 1) Enable Option 2, in General options 4.

User types and Access Control

If an ARM/DISARM user type is selected and that user does not have an Area in the Area list,

then the user cannot have access to the door associated with that area regardless of the area condition behind the door.

If a user is an ACCESS ONLY user, then the area condition comes into account. The following rules apply:

- 1) If the user is an Access Only user. (any area)
 - a) The area inside is on Badging a card will deny access
 - b) The area inside is off Badging a card will open the door
- 2) If the user is an Arm/Disarm user. (door area in users area list)
 - a) The area inside is on - Badging a card will turn the area off and open the door
 - b) The area inside is off - Badging a card will open the door
- 3) If the user is an Arm/Disarm user. (door area not in users area list)
 - a) The area inside is on Badging a card will deny access
 - b) The area inside is off Badging a card will deny access

AUTO-ARM AND AUTO-DISARM

Program a TimeZone.

- 1) Choose a TimeZone to Program.
- 2) Program a "Start Time". This is the time that the Area will automatically Arm.
 Program the Start Hour. NEXT 750 (TZ1), 755 (TZ2), 760 (TZ3), 765 (TZ4)
 Program the Start Minute. NEXT 751 (TZ1), 756 (TZ2), 761 (TZ3), 766 (TZ4)
- 3) Program an "End Time". This is the time that the Area will automatically Disarm (If Auto-Disarm enabled)
 Program the End Hour. NEXT 752 (TZ1), 757 (TZ2), 762 (TZ3), 767 (TZ4)
 Program the End Minute. NEXT 753 (TZ1), 758 (TZ2), 763 (TZ3), 768 (TZ4)
- 4) Assign the Days-of-the-Week when the TimeZone will operate.
 1 - Sun. 2 - Mon. 3 - Tues. 4 - Wed 5 - Thurs 6 - Fri. 7 - Sat. 8 - Hol. NEXT 754 (TZ1), 759 (TZ2), 764 (TZ3), 769 (TZ4)

Program any Holidays required to Qualify the TimeZone

Any Days when Auto-Arming/Disarming is not to occur, when the TimeZone would normally be Valid, must be programmed as Holidays.
 Program the Holiday Month (0 - 12) and the Holiday Date (0 - 31) for up to 10 Holidays. NEXT 570 & 571 (Hol 1) to 588 & 589 (Hol 10)

Auto-Arming Options. Away Mode.

Choose the Area/s to be controlled and select one TimeZone that will control the Area. NEXT 551 (Area 1), 552 (Area 2),
 0 - No TimeZone Control. 1 - TZ1. 2 - TZ2. 3 - TZ3. 4 - TZ4. NEXT 553 (Area 3), 554 (Area 4)

If any Areas are to Auto-Arm in Home Mode, program the "Auto-Arm in Home Mode" Options.

Select the Area or Areas for Auto-Arming in Home Mode. NEXT 560
 1 - Area 1. 2 - Area 2. 3 - Area 3. 4 - Area 4.

If Auto-Disarming is also required, program the Area Auto-Disarm Options.

Select the Area or Areas for Auto-Disarming. NEXT 559
 1 - Area 1. 2 - Area 2. 3 - Area 3. 4 - Area 4.

Program the Auto-Arm Pre-Warn Time. (Factory Default = 255 seconds)

Program the warning time required before Auto-Arm occurs. (Via the Terminal Beeper) NEXT 907

Program an Auxiliary Output if required to activate an additional Warning sounder.

- 1) Choose the Auxiliary to control and select the "Auxiliary Event Type". NEXT 801 (Aux 1), to 810 (Aux 10)
 101 - Pre-Warn Area 1. 102 - Pre-Warn Area 2. 103 - Pre-Warn Area 3. 104 - Pre-Warn Area 4.
- 2) Check that the "Auxiliary Action" for the selected Auxiliary is set to Type 0 - "Follow Event Status". NEXT 861 (Aux 1), to 870 (Aux 10)

AUXILIARY TO FOLLOW A TIMEZONE

Program a TimeZone.

- 1) Choose a TimeZone to Program.
- 2) Program a "Start Time". This is the time that the Auxiliary will be activated.
 Program the Start Hour. NEXT 750 (TZ1), 755 (TZ2), 760 (TZ3), 765 (TZ4)
 Program the Start Minute. NEXT 751 (TZ1), 756 (TZ2), 761 (TZ3), 766 (TZ4)
- 3) Program an "End Time". This is the time that the Auxiliary will be reset.
 Program the End Hour. NEXT 752 (TZ1), 757 (TZ2), 762 (TZ3), 767 (TZ4)
 Program the End Minute. NEXT 753 (TZ1), 758 (TZ2), 763 (TZ3), 768 (TZ4)
- 4) Assign the Days-of-the-Week when the TimeZone will operate.
 1 - Sun. 2 - Mon. 3 - Tues. 4 - Wed 5 - Thurs 6 - Fri. 7 - Sat. 8 - Hol. NEXT 754 (TZ1), 759 (TZ2), 764 (TZ3), 769 (TZ4)

Program any Holidays required to Qualify the TimeZone

Any Days when Auxiliary Control is not to occur, when the TimeZone would normally be Valid, must be programmed as Holidays.
 Program the Holiday Month (0 - 12) and the Holiday Date (0 - 31) for up to 10 Holidays.

Program the Auxiliary Output.

- 1) Choose the Auxiliary to control and select the Event Type. NEXT 801 (Aux 1), to 810 (Aux 10)
 71 - Follow TZ1. 72 - Follow TZ2. 73 - Follow TZ3. 74 - Follow TZ4.
- 2) Program an Auxiliary Timer value for the selected Auxiliary if required. NEXT 831 (Aux 1), to 840 (Aux 10)
 (If any of the Auxiliary Actions from 2 to 13 are to be assigned)
- 3) Assign the "Auxiliary Action" for the selected Auxiliary. NEXT 861 (Aux 1), to 870 (Aux 10)
 0 - Follow Event Status. 1 - Invert Event Status.
 2 - One-shot timed in Seconds. 3 - One-shot timed in Minutes. etc.

Full details of all Auxiliary Actions are provided in the "Auxiliary Actions" Table in Section 10.

BATTERY TESTING

- 1) If Automatic Battery Testing is required, Enable Option 2 in "General Options 3". NEXT 892
- 2) If Battery Testing on Area Arming is required, Enable Option 3 in "General Options 3". NEXT 892

CALLBACK FOR REMOTE CONNECT

- 1) Program the Callback Telephone Number. NEXT 504
- 2) Select Option 2 - "Remote Connect with Callback" in the Remote Connect Options. NEXT 512

CALL FORWARDING. (System will dial the Call Divert number on Arming, and the Call Un-Divert number on Dis-Arming)

- | | | |
|---|---------------------------------|----------|
| 1) Program the Telephone Numbers.
Contact the telephone service provider for details of Call Divert/Un-divert numbers. | Call Divert. | NEXT 502 |
| | Call Un-Divert. (Divert Cancel) | NEXT 503 |
| 2) Enable Option 7 - "Call Forwarding" in General Options 2. | | NEXT 891 |

COMPUTER CONNECTION (LOCAL PORT 0 CONNECTION)

- | | | |
|---|---|----------|
| 1) Select Option 1 - "Upload/Download" as the Port 0 Communications Task. (Default) | | NEXT 515 |
| 2) Set the Port 0 Baud Rate to match the Upload/Download software: | 0 - 300 1 - 1200 2 - 4800 3 - 9600 (Default) | NEXT 516 |

COMPUTER CONNECTION PRINTER (LOCAL PORT 1 CONNECTION)

- | | | |
|---|---|----------|
| 1) Select Option 2 - "Printer" as the Port 1 Communications Task. (Default) | | NEXT 517 |
| 2) Set the Port 1 Baud Rate to match the Printer: | 0 - 300 1 - 1200 2 - 4800 3 - 9600 (Default) | NEXT 518 |

DAY ALARM

- | | | |
|---|-------------------------------------|------------------------------------|
| 1) Enable Day Alarm operation for any Zone Inputs that are to activate the "Day Alarm" Auxiliary Event Type.
Enable Option 6 - "Day Alarm Zone" in the Zone Options. | | NEXT 651 (Zone 1) to 766 (Zone 16) |
| 2) If the Terminal Beeper is to Sound on Day Alarm activation.
Enable Option 2 - "Terminal Beeper for Day Alarms" in General Options 2. | | NEXT 891 |
| 3) Assign Event Type 16 - "Day Alarm" to the selected Auxiliary to control. | | NEXT 801 (Aux 1), to 810 (Aux 10) |
| 4) Program an Auxiliary Timer value for the selected Auxiliary. | | NEXT 831 (Aux 1), to 840 (Aux 10) |
| 5) Assign the required "Auxiliary Action" for the selected Auxiliary.
2 - One-shot timed in Seconds. 3 - One-shot timed in Minutes. | Types 4 to 13 may also be suitable. | NEXT 861 (Aux 1), to 870 (Aux 10) |

DEFER ARMING

- | | |
|--|-----------------------------------|
| 1) Program the "Re-Auto-Arm Time". (0 to 255 Minutes. Factory Default = 30 Minutes)
(Period of no Zone activity before Area will Auto-Arm after being Disarmed by a "Defer Arm Only" User Type) | NEXT 908 |
| 2) Program one or more User PIN Codes for "Defer Arming" operation.
Assign the Area required, and set the User Type to Type 3 - "Defer Arm Only" | NEXT 403 to 447 |
| 3) Program the Auto-Arm Pre-Warn Time. (Factory Default = 255 seconds)
This is the warning time required before Auto-Arm occurs. (Via the Terminal Beeper) | NEXT 907 |
| 4) <u>Program an Auxiliary Output if required to activate an additional Warning sounder.</u> | |
| a) Choose the Auxiliary to control and select the Event Type.
101 - Pre-Warn Area 1. 102 - Pre-Warn Area 2. 103 - Pre-Warn Area 3. 104 - Pre-Warn Area 4. | NEXT 801 (Aux 1), to 810 (Aux 10) |
| b) Check that the "Auxiliary Action" for the selected Auxiliary is set to Type 0 - "Follow Event Status". | NEXT 861 (Aux 1), to 870 (Aux 10) |

DTMF REMOTE CONTROL

- | | |
|--|----------|
| 1) Check that a DTMF Card or DTMF & Voice Card are fitted. | |
| 2) Enable Option 5 - "DTMF Control" in General Options 2. | NEXT 891 |
| 3) Select Option 1 - "Remote Connect Enabled" in the Remote Connect Options. | NEXT 512 |

ARM or DISARM the System: Dial the Control Module. When the panel answers there is a brief tone, when the line is quiet, enter the PIN code. To ARM press * to DISARM press #
e.g. 9997 6464 (wait for tone) 1 (area number if multi area) * ARM the Control Module
9997 6464 (wait for tone) 1 (area number if multi area) # DISARM the Control Module
The Control Module will then reply with a status message:

- A series of Beeps of the same tone to indicate the operation was successful.
- A series of Beeps of 2 different tones to indicate the operation could not be performed.

IMPORTANT NOTE: Wait to here the Status message beeps before attempting another command.

Control an AUXILIARY OUTPUT: Dial the Control Module. When the panel answers there is a brief tone, when the line is quiet, enter the PIN code. Enter Auxiliary Control and Test mode to operate an Auxiliary.
e.g. 9997 6464 (wait for tone) 9 then 24 (Auxiliary Control & Test Mode)
Turn an Auxiliary On: 1 (Auxiliary Number) * (ON);
To turn this Auxiliary OFF when it is ON: 1 (Auxiliary Number) * (OFF);
To turn another Auxiliary ON: 2 (Auxiliary Number) * (ON).
Logout of Aux Control Mode: # and perform another task (eg ARM the Area)
If this is not done before hanging up, you must wait at least 30 seconds before calling the system again,
No Status message beeps are sent for Auxiliary control operations.

KEYSWITCH ARMING AND DISARMING

- | | |
|--|--|
| 1) Program the Zone Input that the Keyswitch is connected to.
Assign Zone Type 14 - "KeySwitch Arm", or Zone Type 15 - "KeySwitch Home to Arm in Home Mode.
Assign the Area that the KeySwitch will control. 1 = Area 1, 2 = Area 2, 3 = Area 3, 4 = Area 4. | NEXT 601 (Zone 1) to 616 (Zone 16)
NEXT 701 (Zone 1) to 716 (Zone 16) |
| 2) Program the KeySwitch Type at Option 5 - "KeySwitch Zones Momentary" in "General Options 3".
Latching Keyswitch - Option 5 is Disabled. Momentary Keyswitch - Option 5 in Enabled. | NEXT 892 |

PULSE COUNTING

- 1) Enable Pulse Count operation for any Zone Inputs that are to be used as "Pulse Count Zones".
Enable Option 4 - "Pulse Count" in the Zone Options. NEXT 651 (Zone 1) to 666 (Zone 16)
- 2) Program the Pulse Count Value (0 to 15. Factory Default = 2). NEXT 901
- 3) Program the Pulse Time (0 to 255 Seconds. Factory Default = 60) . NEXT 902
- 4) If an Alarm on any Pulse Count Zone is to increment the Count on all Pulse Count Zones;
Enable Option 4 - "Pulse Count Handover" in "General Options 3". NEXT 892

SECURITEL REPORTING FORMAT

- 1) Select Option 3 - "Securitel" as the Port 0 Communications Task. (or Port 1) NEXT 515 (517)
- 2) When this Communications task is selected using a Terminal, the baud rate (516 for Port 0 or 518 for Port 1)
is also Set to 1200 (Option 1); CID and Dual Reporting are disabled
and the Securitel Report Format is set (Option 4 only) is selected(505). NEXT 516 (518)
NEXT 505
(when used with Upload / Download all options must be set Manually)

Note: Securitel is a reporting communications task, using some of the functions of PSTN reporting and is selected in the communications tasks options. The options allow for Securitel OR Contact ID reporting. However Domestic reporting can be used with Securitel, the Dual reporting option is NOT required in this case.

- 3) Program the Hard ID into the General Area / Area 1 Client Code in DECIMAL.
The Hard ID is provided by the Central Monitoring Station. NEXT 521
**Note: Before connecting the STU to the IQ PANEL the hard ID must be programmed,
The PANEL or the STU must be restarted if the Hard ID value is changed.**
- 4) Securitel does not use a phone connection, the Securitel "STU" is connected to the IQ "Port 0" or "Port 1"
via an Inner Range cable PN: 995524

Options that are selected to report to the "Dialer" will report via Securitel NEXT 506
NEXT 899

SIREN OUTPUT TO OPERATE AS AN AUXILIARY

- 1) If the Siren (SPK) Output (Auxiliary 0) is required to operate as a normal Open Collector Auxiliary Output;
 Enable Option 6 - "Siren Output operates as Auxiliary" in "General Options 3". NEXT 892
 NOTE: IF ENABLED, A SIREN SPEAKER MUST NOT BE CONNECTED.
- 2) Program operation as a normal Auxiliary Output.
- a) Select the Auxiliary Event Type. See the "Auxiliary Event Type" Table in Section 10. NEXT 800 (Aux 0)
 b) Program the Auxiliary Timer if required. NEXT 830 (Aux 0)
 c) Select the Auxiliary Action. See the "Auxiliary Action" Table in Section 10. NEXT 860 (Aux 0)

SIX DIGIT PIN CODES

- 1) If all PIN Codes in the system are required to be 6 digits in length;
 Enable Option 1 - "6 Digit PIN Codes" in "General Options 3". NEXT 892
- 2) Program the User PIN Codes to be 6 digits in length. NEXT 403 to 447

SMOKE DETECTOR RESET (Resets Latching Smoke Detectors by temporarily removing power)

- 1) Program the Smoke Detector Reset Auxiliary.
- a) Choose the Auxiliary to control and select Event Type 7 - "Smoke Detector Reset". NEXT 801 (Aux 1), to 810 (Aux 10)
 b) Program an Auxiliary Timer value for the selected Auxiliary. NEXT 831 (Aux 1), to 840 (Aux 10)
 c) Assign Auxiliary Action 2 - "One-shot timed in Seconds" for the selected Auxiliary. NEXT 861 (Aux 1), to 870 (Aux 10)
- 2) Program the "24Hr Fire Zone Ignore Time if required. (0 to 255 Seconds. Factory Default = 60)
 (Ignore timer is started by a Smoke Detector Reset Event) NEXT 911

If a Smoke Detector is activated and a User who has control of that Area enters PIN Area OFF, the Smoke Detector Auxiliary will activate for the specified time.

SUB-AREA OPERATION

- If Area 4 is required to operate as a Sub-Area (or Common Area) to other Areas in the system, program the "Multi-Area Options". NEXT 569
- a) Enable Area 4 as the Sub-Area. Enable Option 1.
 b) Assign the required Areas to the Area 4 Sub Area List. Area 1 - Enable Option 2: Area 2 - Enable Option 3: Area 3 - Enable Option 4.

NOTE: Area 4 will always Arm in Away mode when Armed as a Sub-Area.

USER AUXILIARIES

- 1) Assign the Auxiliary Event Type to the selected Auxiliary to control. NEXT 801 (Aux 1), to 810 (Aux 10)
Type 13 - "User Auxiliary A" Type 14 - "User Auxiliary B"

- 2) Program an Auxiliary Timer value for the selected Auxiliary. NEXT 831 (Aux 1), to 840 (Aux 10)

- 3) Assign the required "Auxiliary Action" for the selected Auxiliary. NEXT 861 (Aux 1), to 870 (Aux 10)
2 - One-shot timed in Seconds. 3 - One-shot timed in Minutes. Types 4 to 13 may also be suitable.
See Section 10 -"Tables" page 82 for details of all Auxiliary Actions.

- 4) Program one or more User PIN Codes for "User Auxiliary" operation. NEXT 403 to 447
Set the User Type to Type 4 - "User Auxiliary A" Type 5 - "User Auxiliary B".
NOTE: User Auxiliary PIN Codes cannot be used to perform any other operations.

WALK TESTING

- 1) Program the "Walk Test Time" (0 to 255 Minutes. Factory Default = 30 Minutes) NEXT 912
(Maximum period that the system can remain in Walk Test Mode)

- 2) Program/Check the Users who require access to Walk Test Mode. NEXT 403 to 447
Program a PIN Code, Assign the Area/s required, and set the User Type to Type 7 - "Master".

WIRELESS REMOTE CONTROL

- 1) Ensure that an RF Terminal or RF Module is connected to the LAN and commissioned as described in the installation instructions of these products.
- 2) If a "Bell Squawk" on the Siren (or another Auxiliary Output), and/or Flashing on the Strobe is required to indicate successful Wireless operations:
 - Enable Option 3 - "Bell Squawk on Siren for Wireless operations" in General Options 2. NEXT 891
 - Enable Option 7 - "Flash on Strobe for Wireless Remote Key operations" in General Options 3. NEXT 892
- 3) If an Auxiliary Output is required to provide the "Bell Squawk" indications.
 - a) Choose the Auxiliary to control and select Event Type 16 - "Bell Squawk". NEXT 801 (Aux 1), to 810 (Aux 10)
 - b) Check that the "Auxiliary Action" for the selected Auxiliary is set to Type 0 - "Follow Event Status". NEXT 861 (Aux 1), to 870 (Aux 10)
- 4) If an Auxiliary Output is required to be controlled by Button 4 on the Wireless Remote Key:
 - a) Choose the Auxiliary to control and select Event Type 17 - "RF Auxiliary". NEXT 801 (Aux 1), to 810 (Aux 10)
 - b) Program an Auxiliary Timer value for the selected Auxiliary. NEXT 831 (Aux 1), to 840 (Aux 10)
 - c) Assign the required "Auxiliary Action" for the selected Auxiliary. NEXT 861 (Aux 1), to 870 (Aux 10)
 - 2 - One-shot timed in Seconds. 3 - One-shot timed in Minutes. Types 4 to 13 may also be suitable.

ZONE SELF TESTING

- 1) Enable Self Test operation for any Zone Inputs that are to be automatically tested by the system.
 - Enable Option 5 - "Self Test Zone" in the Zone Options. NEXT 651 (Zone 1) to 666 (Zone 16)
- 2) Program the Zone Self Test Period. (0 to 15. Factory Default = 0) NEXT 903
 - 0 = Zone Self Test Disabled. 1 to 15 = Number of Arming periods to be included in Zone Self Test processing.
- 3) Enable Zone Self Test Fail Reporting via Dialler if required. NEXT 898
 - Enable Option 8 - "Zone Self-Test Fail".

9. PROGRAMMING REFERENCE.

<u>ADDRESS</u>	<u>DEFAULT</u> (Data Type)	<u>FUNCTION</u>
401-495		<p>USER PROGRAMMING.</p> <p>There are 48 Users in the system:</p> <p>USER 1 Installer. USER 2 Master User. USERS 3 to 95 Normal Users. USER 96 Reserved for system functions (e.g. Reporting, Auto arming, etc).</p> <p><u>Installer Code.</u> As all Installer Permissions are pre-defined and do not need to be changed, the Installer User Type and Areas cannot be edited. The Installers PIN Code should be changed as soon as possible after installation. When choosing a new Installer PIN Code, ensure that a PIN code is chosen that will not be forgotten, while still providing security against unauthorised access.</p> <p><u>Add/Change/Delete Users.</u> To edit other Users, an Installer Code or Master User Code must be used. <i>See details below or refer to the User's Manual.</i></p> <p><u>PIN Code Length:</u> The PIN Code length is selected at Address 892 (General Options 3), Option 1. A length of 4 or 6 digits may be selected and applies to all User PIN Codes in the system. The default setting is 4 Digits.</p> <p><u>User Programming:</u> Each User programmed into the system is assigned a PIN Code, the Areas that they are allowed to control and a User Type. If the system has one or more Wireless Remote Keys, each Remote Key must also be assigned to a User.</p> <p>For Details of User Programming refer to "Master User Operations - User Programming" on Page 18.</p>
500-504	(Value Data)	<p>TELEPHONE NUMBER PROGRAMMING</p> <p>One or more Telephone numbers will need to be programmed when any of the following functions are required:</p> <ul style="list-style-type: none"> • When the system is required to report to a Central Monitoring Station. ("Contact ID" reporting format) • When the system is required to report to a Telephone. ("Domestic Dialer" reporting format) • When the system is required to Callback a PC that is dialling in for Remote connection. • When the Call Divert function is required. <p>Telephone numbers are programmed as a Sequential number of up to 16 digits. The system will automatically move on the next Telephone number to program when the <ENTER> key is pressed. If you are programming more than one telephone number, this eliminates the need to select the Address of the next number to program.</p>

ADDRESS **DEFAULT**
 (Data Type)

FUNCTION

The Telephone numbers are presented in the sequence:

- Primary number.
- Secondary number.
- Call Divert (Call Forwarding) number.
- Call Un-divert (Cancel Call Forwarding) number.
- Callback number.

Programming the Telephone Number Digits.

Multi-digit numbers are entered by pressing the <OFF> key.
 e.g. To program a #, Press <OFF>, 1, 1)

Telephone number digit to program:	Key/s to Press on LED Terminal keypad:	Value displayed on Zone Lamps:
0 to 9	<0> to <9>	0 to 9
*	<OFF>, 1, 0	10
#	<OFF>, 1, 1	11
Pause (4 Sec)	<OFF>, 1, 2	12

500 PRIMARY TELEPHONE NUMBER. (UP TO 16 DIGITS)

When the system is required to report to a Central Station or a Telephone, this is the first Telephone number the Control Module will dial.

501 SECONDARY TELEPHONE NUMBER. (UP TO 16 DIGITS)

If the Primary Telephone number fails, the dialer will then try the Secondary Telephone number.
 If this fails the dialer will alternate between the two numbers until the "Maximum Attempts" (Address 508) are reached.

502 CALL DIVERT (CALL FORWARDING) TELEPHONE NUMBER. (UP TO 16 DIGITS)

Call Divert will only be activated if the Call Divert option is enabled in Address 891, Option 7.
 A call forward number will be transmitted on the last Area to close.
 A call un-forwarding number will be transmitted on the first Area to open.

e.g. Australia. Telstra: *, 2, 1, Phone number, #. Optus: *, 7, 8, Phone number.
 Note: Call forwarding option must be enabled via Option 7 in Address 891.

503 CALL UN-DIVERT (CANCEL CALL FORWARDING) TELEPHONE NUMBER. (UP TO 16 DIGITS)

e.g. Australia. Telstra: #, 2, 1, #. Optus: #, 7, 8.
 Note: Call forwarding option must be enabled in Address 891, Option 7.

<u>ADDRESS</u>	<u>DEFAULT</u>	<u>FUNCTION</u>
	(Data Type)	<ul style="list-style-type: none"> • One or more Client Codes must be programmed. Refer to Address 521 to 524. • Details of the Contact ID Event Codes transmitted to the Central Monitoring Station can be found in the Tables section <p><u>“Dual Reporting” format.</u></p> <p>The Dual Reporting option allows the system to report to both the Primary and Secondary telephone numbers programmed into the system at Addresses 500 and 501.</p> <p>Depending on the settings of Option 1 (Contact ID) and Option 2 (Domestic Dialer), the two telephone numbers can be used to report to:</p> <ul style="list-style-type: none"> • 2 different Central Monitoring Stations using Contact ID. • 2 different Private Telephones using simple tone beeps. • A Central Monitoring Station and a Private Telephone. <p>To invoke Dual reporting you must always select the “Dual Reporting” option (Option 8) <u>first</u>.</p> <ul style="list-style-type: none"> • SAME FORMAT: For Dual reporting of the <u>same</u> format simply select the format that you wish to report in. (Option 1 <u>or</u> 2) • DIFFERENT FORMATS: For Dual reporting using both dialer formats select both of the dialer formats. (Option 1 <u>and</u> 2) <p>The Primary Telephone number will always be associated with the lowest option selected (Contact ID) and the Secondary Telephone number with the highest option selected (Domestic Dialer).</p> <p><u>“Securitel Reporting” format.</u></p> <p>The IQ Plus also provides a “Securitel” Reporting option. Zone and System Alarms, restores, tampers and opening / closing, as well as keypad alarm (Medical, Panic etc), Door Forced and DOTL are also reported. Securitel can be used with Domestic dialing but not Contact ID. Refer Section 8 “Programming of Advanced Features”</p>

506 (Option Data)

DIALLER OPTIONS

Dialer options allow various reporting and remote control options to be selected. The Installer can select the different types of messages that are to be sent to a remote Central Monitoring Station (Base station), or to a Telephone.

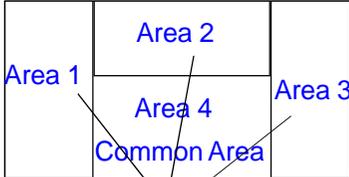
Depending on the customer requirements, any or all of the options can be enabled, although some options may over-ride functions provided in another option. Refer to the details below.

<u>ADDRESS</u>	<u>DEFAULT</u>	<u>FUNCTION</u>
	(Data Type)	<p>IMPORTANT NOTE: Do not select any options 1 to 5, unless a Dialer Reporting format has been selected.</p> <p>1 - Alarms are reported via Dialer (Securitel).</p> <p>2 - Alarm Restores are reported via Dialer (Securitel).</p> <p>3 - Isolates are reported via Dialer (Securitel). NOTE: Isolates are <u>not</u> reported when an Area is Armed in Home Mode.</p> <p>4 - Opening reports only sent after alarm has occurred.</p> <p style="padding-left: 40px;">Option is enabled, there has not been an Alarm and an Opening occurs, no report is sent (Regardless of the setting of option 6)</p> <p style="padding-left: 40px;">Option is enabled, an Alarm occurs and an Opening, a report is sent (Regardless of the setting of option 6)</p> <p style="padding-left: 40px;">Option is enabled, a Closing occurs, report as per option 6</p> <p style="padding-left: 40px;">Option is not enabled, report as per option 6.</p> <p>5 - General Open/Close Reporting.</p> <p style="padding-left: 40px;">Areas to be included in General Open/Close reporting are defined in the General Open/Close Area List. Address 507.</p> <p>6 - Area Openings/Closings (Offs/Ons) are reported via Dialer (Securitel).</p> <p>7- System Restores are reported via Dialer (Securitel).</p>
507	(Option Data)	<p>GENERAL OPEN/CLOSE AREA LIST (FIRST TO OPEN / LAST TO CLOSE)</p> <p>In Multi-Area systems, this list allows the programmer to select which Areas will be included for processing in General Open/Close reporting. In Single Area systems, this list is ignored.</p> <p>General Open Close reporting will be used if enabled in the Reporting Options; Address 506, Option 5.</p> <p>Note: A general open message is sent as a result of the FIRST area opening. All other openings are not reported. A general close message is sent as a result of the LAST area closed. All other closings are not reported</p> <p>Any number of Areas can be selected, but Area 1 <u>must</u> be included in the list.</p> <p>When reporting in Contact ID format, General Open/Close reporting only uses the Area 1 Client Code programmed at Address 521.</p> <p>1 - Include Area 1 in the General Open/Close Area List.</p> <p>2 - Include Area 2 in the General Open/Close Area List.</p> <p>3 - Include Area 3 in the General Open/Close Area List.</p> <p>4 - Include Area 4 in the General Open/Close Area List.</p>
508	8 Attempts (Value Data)	<p>MAXIMUM DIAL ATTEMPTS. (1 - 16 ATTEMPTS)</p> <p>This Address sets the maximum number of dialling attempts the system can make to contact the Central Monitoring Station or Domestic Telephone. A successful transmission of data is required before the counter is reset.</p> <p>The system will alternate between the Primary and Secondary Telephone numbers for each attempt.</p> <p>This setting represents the total number of attempts on both Telephone numbers.</p> <p>IMPORTANT NOTE: Regulatory authorities may limit this number. (In Australia, ACA specify a maximum of 10 attempts. ACA Approval will be void if Max Attempts is set to a higher value)</p> <p>When the maximum number of attempts has been reached, and no connection is made, the Comms Fail System Input will be activated. The system will wait 30 minutes before attempting to dial again. (This wait period is a regulatory requirement)</p>

<u>ADDRESS</u>	<u>DEFAULT</u> (Data Type)	<u>FUNCTION</u>
	(Value Data)	<hr/> <p>TEST REPORTING (PERIODIC TEST REPORT TO CENTRAL STATION)</p> <p>The following Addresses set the frequency of automatic Test reports and the time of day the Test Report is to be sent to the Central Monitoring Station. Test Reporting verifies that the alarm reporting function of the system is operational, and is particularly useful for providing a regular test transmission to the Central Monitoring Station when Open/Close reporting is not used.</p> <p>e.g. If the "Test Report period" option is set to 7, the "Test Report Hour" is set to 22, and the "Test Report Minute" is set to 45; Then a Test Report will be sent to the Central Monitoring Station at 10:45 PM every seven days.</p>
509	7 Days	<p>TEST REPORT PERIOD (0 TO 255 DAYS)</p> <p>This option sets the number of days between the automatic Test Reports. (i.e. How often a Test Report will be sent)</p> <p>0 to 255 Days. 0 = No Test Reporting.</p>
510	3	<p>TEST REPORT HOUR (0 - 23 HOUR)</p> <p>This Address sets the hour that the test report will be sent.</p>
511	30	<p>TEST REPORT MINUTE (0 - 59)</p> <p>This Address sets the minute the test report will be sent.</p>
	(Value Data)	<hr/> <p>REMOTE CONNECT OPTIONS</p> <p>These options allow the Installer to program parameters relating to remote connection for Upload/Download and/or DTMF Telephone remote control. Remote connect for Upload/Download is restricted to the Installer and User Types 6 (Arm/Dis-arm/Isolate) and 7 (Master).</p> <p>Notes: 1) The Baud rate for Upload/Download when remotely connected is fixed at 300 Baud. 2) There is a 2 minute delay between dial-in attempts to enhance protection against unauthorized access into the system. i.e. Once you have disconnected from the panel, please wait at least two minutes before attempting to connect back in</p>
512	1 - Enabled	<p>REMOTE CONNECT METHOD</p> <p>This Address sets the remote connect method for programming the system with the Upload / Download software. Review records the login event and the User number logging in.</p>

<u>ADDRESS</u>	<u>DEFAULT</u> (Data Type)	<u>FUNCTION</u>
		<p>IMPORTANT NOTE: Remote connect for DTMF Telephone remote control is not affected by this setting.</p> <p>0 - Remote connect for Upload/Download not allowed 1 - Remote connect for Upload/Download enabled 2 - Remote connect for Upload/Download enabled with Callback.</p> <p>If Option 1 or 2 is selected, "Number of Rings" must be programmed in Address 513. If Option 2 selected, "Callback Telephone number" must be programmed in Address 504.</p>
513	9 Rings	<p>RINGS TO ANSWER (3 - 16)</p> <p>This Address sets the number of rings before the system will answer an incoming call. Do not program a value of less than 3 rings. This setting is relevant to both Upload/Download connection and DTMF remote control connection.</p>
514	0 - Disabled	<p>ANSWER MACHINE (FAX) BYPASS</p> <p>This feature is used when Upload/Download software or DTMF Telephone is trying to remotely connect to the system, and an Answering Machine is connected to the same Telephone line. If this feature is enabled, the remote device must call the system, then hang up within three rings. If the remote device calls the system again within the programmed "Follow-on" time then the system will answer the call on the first ring & connect.</p> <p>0 - Answering Machine Bypass disabled 2 - Follow-on time = 30 secs 1 - Follow-on time = 10 secs 3 - Follow-on time = 60 secs</p>
	(Value Data)	<hr/> <p>SERIAL PORT OPTIONS</p> <p>Serial Port options allow the Installer to program the Communications Task and Baud rate for the Serial Port on the Control Module. These Ports can then be used for Direct connection of a PC for Upload/Download using the "Port 0 Interface Cable", or to a Printer, printing an alarm summary in real time.</p>
515 517	1 - Upload/Download 2 - Printer	<p>PORT 0 : COMMS TASK PORT 1 : COMMS TASK</p> <p>NOTE: While Upload/Download software is connected and communicating with the Control Module, DTMF Remote Control is temporarily disabled.</p> <p>0 - Serial Port not used 1 - Upload/Download 2 - Printer 3 - Securitel (Refer Section 8 "Programming of Advanced Features")</p>

<u>ADDRESS</u>	<u>DEFAULT</u> (Data Type)	<u>FUNCTION</u>
516 ; 518	3 - 9600	PORT 0 ; PORT 1 : BAUD RATE 0 - 300 1 - 1200 2 - 4800 3 - 9600
519	(Option Data)	MULTI-AREA ACTIVITY ON ENHANCED TERMINALS This option allows the Terminal selected (When the Terminal is associated with an area) to be able to view Zone activity in areas, not just the area associated with the Terminal. 1 - No 1 - Terminal 1 can view all Zone Activity 2 - No 2 - Terminal 2 can view all Zone Activity 3 - No 3 - Terminal 3 can view all Zone Activity 4 - No 4 - Terminal 4 can view all Zone Activity
520	Spare (Value Data)	CLIENT CODES (CONTACT ID) A four-digit Client Code is used to identify the system (premises) to the Central Station and must be programmed if the system is reporting in the "Contact ID" format. (See Address 505. Reporting Format) The Client Code will be supplied by the Central Station and is programmed as a Sequential number of 4 digits. Program the Securitel "Hard ID" into the General Area / Area 1 Client Code (In Decimal) Single Area system. Only one Client Code is required, and this is programmed as the "General Area / Area 1 Client Code". Multi-Area system. -If a common Client Code is to be used for all Areas in use, only program the "General Area / Area 1 Client Code". -If unique Client Codes are required for each Area, the Client Code must be programmed separately for every Area that is used.
521	9999	GENERAL AREA / AREA 1 CLIENT CODE This is the 4 digit Client Code that will be used for: Single Area systems. Area 1 or General Open/Close reporting in Multi-Area systems.
522		AREA 2 CLIENT CODE This is the 4 digit Client Code used for Area 2 (blank by default) in Multi-Area systems when reporting to a Central Monitoring Station in Contact ID format. If no Client Code is programmed for Area 2, the Area 1 Client Code will automatically be used.
523		AREA 3 CLIENT CODE This is the 4 digit Client Code used for Area 3 (blank by default) in Multi-Area systems when reporting to a Central Monitoring Station in Contact ID format. If no Client Code is programmed for Area 3, the Area 1 Client Code will automatically be used.

<u>ADDRESS</u>	<u>DEFAULT</u> (Data Type)	<u>FUNCTION</u>
565-568 569	Spare (Option Data)	<p>MULTI AREA OPTIONS</p> <p>When the system operates in Multi-Area mode, it can be configured as four separate Areas, or as 3 Areas with Area 4 as the Sub-Area.</p> <p>Sub-Area Mode. Area 4 will only be armed when <u>all</u> the Areas that included Area 4 as a Sub-Area are armed. Area 4 cannot be Disarmed from a Terminal or Keyswitch but will Disarm when all controlling Areas Disarm and will not Arm unless all the controlling Areas are Armed.</p> <p>1 - No 2 - No 3 - No 4 - No</p> <p>1 - Enable Area 4 as the Sub-Area. 2 - Area 1 can control Sub-Area 3 - Area 2 can control Sub-Area 4 - Area 3 can control Sub-Area</p> <p>Area1, Area2 and Area3 are in control of the Sub-Area, Area 4 will Arm when all the Areas are Armed.</p>  <p>When all the controlling Areas are Armed, Area 4 will Arm in Away Mode. The Sub-Area will use its own entry exit/timers. The Sub-Area exit timer and the controlling Areas exit timer will be started at the same time. The Sub-Areas entry timer will start on activation of any delay zone assigned to the Sub-Area.</p>

570-589 *596-599	(Value Data)	<p>HOLIDAYS</p> <p>Each Holiday has 2 Address locations for defining the Holiday Month and the Day of the month. Any TimeZone that is <u>not</u> set to be <u>Valid</u> on Holidays will be Invalid on any date defined as a Holiday.</p> <p>HOLIDAY MONTH (0 - 12) This Address sets the Month component of the Date for the Holiday. A value of 0 means no Date is defined.</p> <p>HOLIDAY DAY (0 - 31) This Address sets the Day component of the Date for the Holiday. A value of 0 means no Date is defined.</p>
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570-571	1 (January) / 1	HOLIDAY 1 PROGRAMMING.
572-573	12 (December) / 25	HOLIDAY 2 PROGRAMMING.
574-575	12 (December) / 26	HOLIDAY 3 PROGRAMMING.
576-577		HOLIDAY 4 PROGRAMMING.
578-579		HOLIDAY 5 PROGRAMMING.
580-581		HOLIDAY 6 PROGRAMMING.
582-583		HOLIDAY 7 PROGRAMMING.
584-585		HOLIDAY 8 PROGRAMMING.
586-587		HOLIDAY 9 PROGRAMMING.
588-589		HOLIDAY 10 PROGRAMMING.
*596-597		HOLIDAY 11 PROGRAMMING.
*598-599		HOLIDAY 12 PROGRAMMING.

NOTE:
Holidays will only take effect when the system clock passes through midnight into, and out of, the day that is designated as a Holiday.
If midnight is skipped by adjusting the system clock (via NEXT 33 - View/Set the Time and Date, or Upload/Download), the Holiday will not be recognised.

* Address Location Out of Sequence

<u>ADDRESS</u>	<u>DEFAULT</u> (Data Type)	<u>FUNCTION</u>																		
590-595	(Value Data)	<p>DAYLIGHT SAVING</p> <p>IMPORTANT NOTE: The Daylight Saving "Start Month" and "End Month" must <u>both</u> be non-zero before any automatic Daylight Saving adjustment will be performed. See the information following these programming options for help in determining the Daylight Saving Start and End dates to be programmed.</p> <p>Note that Daylight Saving adjustment occurs at 00:00 (Midnight) on the specified day.</p>																		
590	0	<p>DAYLIGHT SAVING START MONTH (0 - 12) This Address sets the Month component of the Date for the Start of Daylight Saving. A value of 0 means no automatic Daylight Saving adjustment.</p>																		
591	5	<p>DAYLIGHT SAVING START WEEK (1 - 5) This Address sets the Week-Of-Month component of the Date for the Start of Daylight Saving.</p>																		
592	1. Sunday	<p>DAYLIGHT SAVING DAY-OF-WEEK IN START WEEK (1 - 7) This Address sets the Day-Of-Week component of the Date for the Start of Daylight Saving.</p> <table border="0"> <tr> <td>1</td><td>Sunday</td> <td>4</td><td>Wednesday</td> <td>6</td><td>Friday</td> </tr> <tr> <td>2</td><td>Monday</td> <td>5</td><td>Thursday</td> <td>7</td><td>Saturday</td> </tr> <tr> <td>3</td><td>Tuesday</td> <td></td><td></td> <td></td><td></td> </tr> </table>	1	Sunday	4	Wednesday	6	Friday	2	Monday	5	Thursday	7	Saturday	3	Tuesday				
1	Sunday	4	Wednesday	6	Friday															
2	Monday	5	Thursday	7	Saturday															
3	Tuesday																			
593	0	DAYLIGHT SAVING END MONTH (0 - 12)																		
594	5	DAYLIGHT SAVING END WEEK (1 - 5)																		
595	1. Sunday	DAYLIGHT SAVING DAY-OF-WEEK IN END WEEK (1 - 7)																		

DAYLIGHT SAVING TIME (DST) START AND END DATES.

- Australia.** In NSW, ACT, VIC and SA, DST normally starts on the last Sunday in October, and ends on the last Sunday in March.
e.g. 28 October 2001 to 31 March 2002 27 October 2002 to 30 March 2003
26 October 2003 to 28 March 2004 31 October 2004 to 27 March 2005
In Tasmania, DST normally starts on the first Sunday in October, and ends on the last Sunday in March.
e.g. 7 October 2001 to 31 March 2002 6 October 2002 to 30 March 2003
5 October 2003 to 28 March 2004 3 October 2004 to 27 March 2005
- New Zealand.** Daylight Saving Time normally starts on the first Sunday in October, and ends sometime in March.

<u>ADDRESS</u>	<u>DEFAULT</u> (Data Type)	<u>FUNCTION</u>
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Europe. Daylight Saving Time normally starts on the last Sunday in March, and ends on the last Sunday in October.
e.g. 25 March 2001 to 28 October 2001

NOTE: These dates are only a guide, and should be checked with a reliable local source.

Comprehensive information on DST Start and End dates for most world locations can be found at:
Time and date.com <http://www.timeanddate.com/time/>

ZONE INPUT PROGRAMMING OVERVIEW

Zone programming allows the Installer to configure how the Zone Inputs are processed. A "Zone Type" and a number of processing options are programmed for each individual Zone, while parameters for Pulse Counting, Terminating Resistors and Zone Self Testing are programmed as global Zone Options.

600 3 -3k3 Single EOL
(Value Data)

END-OF-LINE RESISTOR TYPE

This data sets the value/s of the End-Of-Line (Terminating) resistor/s used for the Zone inputs. This is a global setting for all Zone inputs connected to the system.

*NOTE: The "Zone Doubling" option allows Zones 1 to 8 on the Control Module to support two detection devices on each Zone input. The additional 8 devices will be recognised and processed as Zones 9 to 16. Zone Inputs on the plug-on Zone/Auxiliary Expander board will be ignored.

The installation kit provides 1k, 3k3 and 6k8 Resistors. Typical "Terminating Resistor" settings will be:

If Single End-Of-Line is used:	3	(3k3)
If Dual End-Of-Line is used:	13	(3k3, 6k8)
If Zone Doubling is used:	15	(1k, 3k3, 6k8)

If the system is replacing another product, and the detectors already have Terminating Resistors of a different value, the Terminating Resistors may be retained by choosing the setting that matches the existing values.

Single EOL:	0 -1k	1 -1k5	2 -2k2	3 -3k3	4 -3k9	5 -4k7
	6 -5k6	7 -6k8	8 -10k	9 -12k	10 -22k	

ADDRESS

DEFAULT

(Data Type)

FUNCTION

Dual EOL: **11** -2k2, 2k2 **12** -2k2, 6k8 **13** -3k3, 6k8 **14**-10k, 10k
 (Provides Tamper state. 1st Value is Series Resistor, 2nd Value is Resistor across contacts)

Zone Doubled: **15** -1k, 3k3, 6k8. **16** -1k, 3k3, 6k8. No separate tamper state. *See installation manual for details.*

601-616

(Value Data)

ZONE TYPE

Programming Addresses for Zone Type programming:

Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Address	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616

Zone Type Details:

- Zone 1
1 - Delayed 0 Instant(Factory Default for Zones 3 to 16). When an "Instant" Zone goes into alarm, the system immediately generates an alarm. The Zone processing will not be delayed by Entry or Exit Timers. Processing is the same whether Armed in Normal Mode or Home Mode.

- Zone 2
2 - Handover 1 Delayed A "Delayed" Zone will have Entry/Exit delay periods applied, as programmed in the "Entry delay" and "Exit delay" Addresses for the Area that the Zone is assigned to. (General Area/Area 1 in a Single Area system)
If more than 1 Area assigned and 2 or more of those Areas Armed or Disarmed at the same time, the longest Entry/Exit Delay will apply. Processing is the same whether Armed in Normal Mode or Home Mode.

- Zone 3 to 16
0 - Instant 2 Hand-over When a "Handover" Zone goes into alarm, the alarm will be processed under these two conditions:
If a Delayed Zone has already been triggered in the same Area, the system will ignore the alarm for the duration of the Entry or Exit timer. i.e. The Zone will be processed as a delayed Zone.
If a Delayed Zone has not been triggered, the system will process the Zone as an "Instant" Zone.
Processing is the same whether Armed in Normal Mode or Home Mode.

- 3 Away Instant / Home Isolate. Same as Type 0 - "Instant" when Armed in Away (Normal) Mode. Isolated when Armed in Home Mode.

- 4 Away Instant / Home Delayed. Same as Type 0 - "Instant" when Armed in Away (Normal) Mode.
Delayed by the "Homeguard Time" (Address 900) when Armed in Home Mode.

- 5 Away Delayed / Home Isolate. Same as Type 1 - "Delayed" when Armed in Away (Normal) Mode.
Isolated when Armed in Home Mode.

- 6 Away Delayed / Home Delayed. Same as Type 1 - "Delayed" when Armed in Away (Normal) Mode.
Delayed by the "Homeguard Time" (Address 900) when Armed in Home Mode.

- 7 Away Delayed / Home Instant. Same as Type 1 - "Delayed" when Armed in Away (Normal) Mode. Instant Alarm when Armed in Home Mode.
- 8 Away Handover / Home Isolate. Same as Type 2 - "Handover" when Armed in Away (Normal) Mode. Isolated when Armed in Home Mode.
- 9 Away Handover / Home Delayed. Same as Type 2 - "Handover" when Armed in Away (Normal) Mode. Delayed by the "Homeguard Time" (Address 900) when Armed in Home Mode.
- 10 24 Hour Burglary A "24 Hour Burglary" Zone is permanently armed. When the Zone goes into alarm it can trigger the sirens, strobe, and other outputs and report the alarm according to how the processing options are programmed. If the siren is triggered a Burglary siren tone will sound. Note: 24 Hr Zone Types must still be assigned to an Area.
- 11 24 Hour Fire A "24 Hour Fire" Zone is permanently armed. When the Zone goes into alarm it can trigger the sirens, strobe, and other outputs and report the alarm according to how the processing options are programmed. If the siren is triggered a Fire siren tone will sound. Note: 24 Hr Zone Types must still be assigned to an Area.
- 12 24 Hour Panic A "24 Hour Panic Zone" is permanently armed. Panic alarm processing is determined by the "Emergency Options". (Address 899, Options 1 & 2). Note: 24 Hr Zone Types must still be assigned to an Area. If the siren is triggered a Panic siren tone will sound. If the dialer is enabled a "Panic" report is sent to the Central Station.
- 13 24 Hour Duress A "24 Hour Duress Zone" is permanently armed. Duress alarm processing is determined by the "Emergency Options". (Address 899, Option 7) Note: 24 Hr Zone Types must still be assigned to an Area. If the dialer is enabled a "Duress" report is sent to the Central Station.
- 14 *Key Switch Arming A "Key Switch" Zone will arm the Area it is assigned to when the Zone goes Un-sealed. The Zone can be programmed for momentary or latching operation in "General Options 3". (Address 892, Option 5. Default setting is "Latching")
- 15 *Key Switch HOME A "Key Switch HOME" Zone will Arm the Area it is assigned to in HOME mode when the Zone goes Un-sealed. The Zone can be programmed for momentary or latching operation in "General Options 3". (Address 892, Option 5. Default setting is "Latching")
* NOTE: "Key Switch" Zones can be used to Disarm Area 4 when enabled as a Sub-Area, but Area 4 will not Arm unless all the Areas in the Sub-Area List are Armed.
- 16 Delayed Force Arm. Same operation as Type 1 - "Delayed" except that Users will always be allowed to arm an Area assigned to this Zone type when the Zone is unsealed. i.e. The "Force Arming" function will always apply regardless of the setting in General Options 1, Option 3 - Force Arming. (Address 890. Default is "Not Enabled")
Allows for Delayed Zones that may need to be unsealed when arming. e.g. A PIR that detects movement near the Terminal, or a Reed switch on a Security Shutter at the Entrance.

ADDRESS

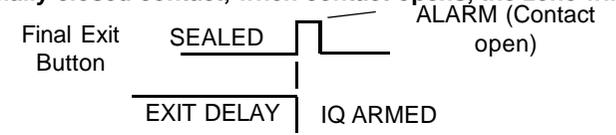
DEFAULT

FUNCTION

(Data Type)

17 Hand-over Force Arm. Same as Type 2 - "Handover" except that Users will always be allowed to arm an Area assigned to this Zone type when the Zone is unsealed. i.e. The "Force Arming" function will always apply regardless of the setting in General Options 1, Option 3 - Force Arming. (Address 890. Default is "Not Enabled")
Allows for Handover Zones that may need to be unsealed when arming. e.g. A PIR that detects movement near the Terminal.

18 **Final Exit.(Do Not use as a normal Zone) Final Exit button using a normally closed contact, when contact opens, the zone will go into Alarm, which terminates any exit delay.**



617-650 Spare

651-666 (Option Data)

ZONE OPTIONS

Programming Addresses for Zone Options programming:

Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Address	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666

- 1 - No
- 2 - Yes *
- 3 - Yes
- 4 - No
- 5 - No
- 6 - No
- 7 - No
- 8 - No

- 1 - Silent
- 2 - Siren Lockout
- 3 - Dialer Lockout
- 4 - Pulse Count
- 5 - Self-Test Zone
- 6 - Day Alarm Zone
- 7 - Normally Open (Change Sense)
- 8 - Spare

* Zones 1 to 8 only.

Zone Options allows various processing options to be selected for each individual Zone.

- 1 Silent. When this option is selected, the Zone will not trigger the siren. If "Silent" and "Siren Lockout" options are both set then the Zone will behave according to the Silent option.
- 2 Siren Lockout. This option allows the Zone to trigger the Siren only for the number of times specified in "Swinger Shutdown Siren Count" (Address 913) during one arming cycle. If "Silent" and "Siren Lockout" options are set then the Zone will behave according to the Silent option.
- 3 Dialer Lockout. This option allows a Zone to trigger the Dialer only for the number of times specified in "Swinger Shutdown Dialer Count" (Address 914) during one arming cycle. If "Single-Hit" reporting is required, select this option and set the Swinger Shutdown Dialer Count to a value of "1". If full Multi-break reporting is required, this option must not be selected.

<u>ADDRESS</u>	<u>DEFAULT</u> (Data Type)	<u>FUNCTION</u>
		<p>If limited Multi-break reporting is required, select this option and specify the number of "Breaks" to be reported in the Swinger Shutdown Dialer Count.</p> <p>This option is highly recommended for "Domestic Dialer" format. A Zone Restore will be reported on Opening (Area Off).</p>
4		<p>Pulse Count. This option enables Pulse Counting for this Zone.</p> <p>The zone will only create an alarm if:</p> <ul style="list-style-type: none"> -The "Pulse Count" is registered during the "Pulse Time". -OR, the Zone is still in alarm when the "Pulse Time" expires. <p>The Pulse Count value is programmed at Address 901, and the Pulse Time is programmed at Address 902.</p>
5		<p>Self-Test Zone. Any Zones defined as a "Self-Test Zone" are required to go into the un-sealed state at least once within the "Self-Test Period", or a Self-Test system input alarm (System Input 10) will be generated.</p> <p>Self-Test Zones are monitored for activity while the Area that they are assigned to is Dis-armed. Only Zones that will go into the un-sealed state in the normal course of daily activity should be defined as a Self-Test Zone. e.g. Movement detectors and Door contacts that get activated when the system is Dis-armed.</p> <p>The Self-Test period is programmed in Address 903.</p>
6		<p>Day Alarm Zone If a Zone is defined as a Day Alarm, then when the Area that the Zone is assigned to is Dis-armed, the Zone can trigger an Auxiliary that has the "Day Alarm" Event Type assigned. (Address 800 to 810, Event Type 16)</p> <p>When the Area is Armed, the Zone will generate an alarm as per it's Zone Type.</p>
7		<p>Normally Open (Change Sense). Zones that are defined as "Normally Open" will go into alarm when the alarm contacts on the device are Sealed, and will restore when the contacts are Un-sealed.</p> <p>i.e. Reverses the "Seal" and "Alarm" states on the Zone Input.</p> <p>This option can be used when monitoring devices with Normally Open alarm contacts are used. e.g. Certain Smoke Detectors, etc.</p>
8		Spare.
667-700	Spare	

ADDRESS **DEFAULT** **FUNCTION**

(Data Type)

701-716 (Option Data)

ZONE AREAS

Zones must be assigned to an Area before they can be processed by the system.
 If the system is configured for "Single Area mode", then all the Zones that are used, must be assigned to the General Area / Area 1.
 (Single Area / Multi-Area mode is selected in General Options 2; Address 891, Option 1. Default is Single Area mode)

If the system is configured for "Multi-Area mode", then each Zone is assigned to one or more Areas, depending on the system requirements.

Any Zone not assigned to any Area is considered as an unused Zone.

Zones 1 to 8
 1 - Area 1

 Zones 9 to 16
 No Areas assigned.

Programming Addresses for Zone Area programming:

Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Address	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716

This data sets the Area/s that the Zone will be assigned to.
 Zones are normally only assigned to one Area.
 A separate Address is used for each Zone Input as per the table above.

717-749 Spare

TIMEZONES

TimeZones can be programmed to define a Start time and End time, and the Days of the Week on which the TimeZone will be valid.
 TimeZone programming also provides a "Holiday" option to be enabled when assigning the Days, to allow the TimeZone to still be valid on any dates defined as Holidays.
 Once programmed, TimeZones can be used to arm & disarm Areas &/or control Auxiliary outputs automatically.

750-754 9am-5pm Mon to Fri
755-759 9am-1pm Sat & Sun
760-764 7am-8pm All days
765-769 8pm-7am All days

TIMEZONE 1 PROGRAMMING.
TIMEZONE 2 PROGRAMMING.
TIMEZONE 3 PROGRAMMING.
TIMEZONE 4 PROGRAMMING.

NOTE:
 The time zone value, when changed, will not take effect until after the following midnight.

Each TimeZone has 5 Address locations for defining:
 Start Hr Start Min End HrEnd Min Valid Days of the Week

<u>ADDRESS</u>	<u>DEFAULT</u>	<u>FUNCTION</u>																
	(Data Type)	START AND END TIMES																
	(Value Data)	The Start and End Times are defined in 4 separate Addresses for each TimeZone.																
		<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">TIMEZONE START HOUR</td> <td style="width: 20%;">(0 - 23 Hour)</td> <td style="width: 50%;">This Address defines the Hour component of the Start Time.</td> </tr> <tr> <td>TIMEZONE START MINUTE</td> <td>(0 - 59 Minute)</td> <td>This Address defines the Minute component of the Start Time.</td> </tr> <tr> <td>TIMEZONE END HOUR</td> <td>(0 - 23 Hour)</td> <td>This Address defines the Hour component of the EndTime.</td> </tr> <tr> <td>TIMEZONE END MINUTE</td> <td>(0 - 59 Minute)</td> <td>This Address defines the Minute component of the End Time.</td> </tr> </table>	TIMEZONE START HOUR	(0 - 23 Hour)	This Address defines the Hour component of the Start Time.	TIMEZONE START MINUTE	(0 - 59 Minute)	This Address defines the Minute component of the Start Time.	TIMEZONE END HOUR	(0 - 23 Hour)	This Address defines the Hour component of the EndTime.	TIMEZONE END MINUTE	(0 - 59 Minute)	This Address defines the Minute component of the End Time.				
TIMEZONE START HOUR	(0 - 23 Hour)	This Address defines the Hour component of the Start Time.																
TIMEZONE START MINUTE	(0 - 59 Minute)	This Address defines the Minute component of the Start Time.																
TIMEZONE END HOUR	(0 - 23 Hour)	This Address defines the Hour component of the EndTime.																
TIMEZONE END MINUTE	(0 - 59 Minute)	This Address defines the Minute component of the End Time.																
		TIMEZONE DAYS OF THE WEEK																
	(Option Data)	<table border="0" style="width: 100%;"> <tr> <td style="width: 5%;">1</td> <td style="width: 35%;">Sunday</td> <td style="width: 5%;">5</td> <td style="width: 55%;">Thursday</td> </tr> <tr> <td>2</td> <td>Monday</td> <td>6</td> <td>Friday</td> </tr> <tr> <td>3</td> <td>Tuesday</td> <td>7</td> <td>Saturday</td> </tr> <tr> <td>4</td> <td>Wednesday</td> <td>8</td> <td>Holiday</td> </tr> </table> <p>Options 1 to 7: The TimeZone will be valid on the specified Day, or Days, unless the date has been defined as a Holiday. Option 8: The TimeZone will always be valid on the Days of the Week selected, regardless of whether the date has been defined as a Holiday.</p>	1	Sunday	5	Thursday	2	Monday	6	Friday	3	Tuesday	7	Saturday	4	Wednesday	8	Holiday
1	Sunday	5	Thursday															
2	Monday	6	Friday															
3	Tuesday	7	Saturday															
4	Wednesday	8	Holiday															

770-799 Spare

AUXILIARY PROGRAMMING OVERVIEW

Auxiliary Programming sets the programming options for the ten Auxiliaries AUXILIARY 1 to AUXILIARY 10. Each Auxiliary has 3 Addresses related to the programming.

- The Auxiliary Event Type must be programmed to determine which Entity or Event will control the Auxiliary.
- The Auxiliary Timer Value determines the period of time the Auxiliary will be activated if a Timed Auxiliary Action is selected.
- The Auxiliary Action must be programmed to define the way in which the Auxiliary is controlled.

800-810 (Value Data)

AUXILIARY EVENT TYPE

The Auxiliary Event Type determines which Entity or Event will control the Auxiliary. To define the way in which the Auxiliary is controlled, the "Auxiliary Action" must also be programmed.

Programming Addresses for Auxiliary Event Type programming:

Auxiliary	0	1	2	3	4	5	6	7	8	9	10
Address	800	801	802	803	804	805	806	807	808	809	810

<u>ADDRESS</u>	<u>DEFAULT</u>	<u>FUNCTION</u>
	(Data Type)	
	Aux 1	
	Type 1 - Burglary	A single Auxiliary Event Type can be assigned to each of the general purpose Auxiliary outputs. (Auxiliaries 1 to 10) If the General Option "Siren O/P operates as Auxiliary" is selected, (Address 892, Option 6) an Auxiliary Event Type can also be assigned to Auxiliary 0, the Siren Speaker output.
	Aux 2	
	Type 10 - Int Siren	A wide range of Auxiliary Event Types are available, full details are provided in the "Auxiliary Event Types" Table in Section 10.
		IMPORTANT NOTE: Auxiliary Event Types; 7 -Smoke Detector Reset, 13 & 14 -User Auxiliary A & B, 15 -Day Alarm, 17 -RF Auxiliary and 21 to 36 -Zone 1 to 16 in Alarm can only be turned off by an Auxiliary Timer or from the Auxiliary Control and Test Menu. (NEXT 24). It is therefore recommended that these Event Types should also have an Auxiliary Action assigned that incorporates a timer (i.e. Auxiliary Actions 2 to 13) and a suitable Auxiliary Timer value programmed.
		<u>Common Auxiliary Event Types:</u>
		1 Burglary Alarm. (Strobe) 3 Zone Bypass on Arming. 9 Follow Ext. Siren 11 EntryTimer (Any Area)
		2 Fire Alarm. 4 System Alarm. 10 Follow Int. Siren 12 Exit Timer (Any Area)
811-829	Spare	131 Door Forced or DOTL Alarm on Door One 141 DOTL Alarm on Door One

830-840	(Value Data)	AUXILIARY TIMER VALUE																								
		These Addresses allow a Timer Value to be programmed for any Auxiliary Actions that incorporate a Timer. (Auxiliary Actions 2 to 13) The Timer Value will be in Seconds or Minutes depending on which is specified in the Auxiliary Action. (If a timer value of 1 to 4 Minutes is required, program the timer in Seconds)																								
		Programming Addresses for Auxiliary Timer programming:																								
841-859	Spare	<table border="1"> <tr> <th>Auxiliary</th> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> </tr> <tr> <th>Address</th> <td>830</td> <td>831</td> <td>832</td> <td>833</td> <td>834</td> <td>835</td> <td>836</td> <td>837</td> <td>838</td> <td>839</td> <td>840</td> </tr> </table>	Auxiliary	0	1	2	3	4	5	6	7	8	9	10	Address	830	831	832	833	834	835	836	837	838	839	840
Auxiliary	0	1	2	3	4	5	6	7	8	9	10															
Address	830	831	832	833	834	835	836	837	838	839	840															

860-870	(Value Data)	AUXILIARY ACTION																								
		A wide range of Auxiliary Actions are available, full details are provided in the "Auxiliary Action" Table in Section 10.																								
		<u>Common Auxiliary Actions:</u>																								
	0 - Follow Event Status	0 Follow Event Status. 2 One Shot Timed in Seconds.																								
	Status	1 Invert Event Status. 4 One Shot Timed in Minutes.																								
		Programming Addresses for Auxiliary Action programming:																								
		<table border="1"> <tr> <th>Auxiliary</th> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> </tr> <tr> <th>Address</th> <td>860</td> <td>861</td> <td>862</td> <td>863</td> <td>864</td> <td>865</td> <td>866</td> <td>867</td> <td>868</td> <td>869</td> <td>870</td> </tr> </table>	Auxiliary	0	1	2	3	4	5	6	7	8	9	10	Address	860	861	862	863	864	865	866	867	868	869	870
Auxiliary	0	1	2	3	4	5	6	7	8	9	10															
Address	860	861	862	863	864	865	866	867	868	869	870															

<u>ADDRESS</u>	<u>DEFAULT</u>	<u>FUNCTION</u>
871-889	Spare	
890	(Option Data)	<hr/> <p>GENERAL OPTIONS. 1.</p> <p>1 - Auto Isolate on Arming 2 - Quick Arming 3 - Force Arm Areas. 4 - Clock synchronized to 50Hz AC Mains. NOTE: Only to be used in regions with stable 50Hz AC Mains frequency) 5 - Zone Alarm indication after Disarm. 6 - Display Zone activity on Terminals when Area/System is Disarmed. 7 - Enable Special Siren Tone for System Alarms. 8 - Enable Single Exit Beep in Home Mode.</p> <p><u>Auto-Isolate on arming.</u> Any Zone Inputs in the Area/s being armed, that are in the Alarm state when the Exit Delay timer is about to expire, will automatically be isolated. If enabled, Auto-Isolate will operate regardless of how the system is armed. (e.g. Via User, Key-switch, One-touch arming, Remote, etc.)</p> <p><u>Quick Arming.</u> Single Area System: Quick Arming procedure is always <1>, <ON> or <1>, <HOME>. Multi-Area System: Quick Arming procedure is <Area Number>, <ON> or <Area Number>, <HOME>. If the Terminal is programmed for Single Area Mode, only the associated Area can be Armed.</p> <p><u>Force Arm Areas.</u> When enabled, Users can arm Areas in Away mode or Home mode regardless of any un-sealed Zones. Un-sealed Zones in the Area will be Isolated if the Auto-Isolate option is enabled (Address 890, Option 1) or will generate an alarm according to their Zone Type if Auto-Isolate is not enabled. Note that Zone Types 16-Delayed Force Arm & 17-Handover Force Arm operate in Force Arm mode regardless of the setting in this option.</p> <p><u>Zone Alarm indication after Disarm.</u> If enabled, and an Area is disarmed <u>after an alarm has occurred in the Area</u>, the Terminal will display all alarms in the last Arming period by fast flashing the Zone Lamps. When alarm details have been noted, press the <CLR> button to exit to the normal display.</p> <p><u>Enable Special Siren Tone for System Alarms.</u> When enabled, System Alarms programmed to activate the Siren will generate a tone burst Siren sound. When not enabled, System Alarms programmed to activate the Siren will generate the normal Burglary Siren tone.</p>

<u>ADDRESS</u>	<u>DEFAULT</u> (Data Type)	<u>FUNCTION</u>
891	(Option Data)	<p>GENERAL OPTIONS. 2.</p> <p>1 - Multi-Area System.</p> <p>2 - Terminal Beeper for Day Alarms. Provides Door Bell sound on all Terminals associated with the Area the Day Alarm Zone is in.</p> <p>3 - Bell Squawk on Siren for Wireless Remote Key operations.</p> <p>4 - All Area Siren Off control. Allows any User with any Area Off permissions to cancel the Siren by entering their PIN code.</p> <p>5 - DTMF Control. Allows Dial-up remote control from any touch-tone (DTMF) telephone. See note below.</p> <p>6 - Delay Siren until Comms complete.</p> <p>7 - Enable Call Forwarding.</p> <p>8 - Dialer enabled in Home Mode.</p> <p><u>Multi-Area System.</u> The system is designed to operate in Single Area or Multi-Area mode.</p> <ul style="list-style-type: none"> In Single Area mode the system only uses one Area, the "General Area" or "Area 1". When Single Area mode is selected, the Area Lamps on the Terminal are not used and any Multi-Area programming or operating functions are ignored. When Multi-Area mode is selected, up to four separate Areas can be used. The Area Lamps on the Terminal indicate the status of each individual Area. <u>NOTE:</u> If an Entry/Exit Area is required in a Multi-Area system, Area 1 is recommended. <p><u>Bell Squawk on Siren for Wireless operations.</u> "Squawk" is 200mS Tone burst in a 1 second period. Arm (Button 1) - 1 Squawk. Disarm (Button 2) - 2 Squawks. Error (Already Armed) - 5 Squawks.</p> <p><u>DTMF Control. IMPORTANT NOTE!</u> When this option is selected, remote connection for Upload/Download is not available, except via the Answer Call operation, NEXT 35.</p> <p><u>Delay Siren until Comms complete.</u> When enabled, the Siren Timer &/or Siren Hold-off timer is not initiated until after successful communications has been completed or a Comms Fail system alarm is activated. If this option is enabled, note that the Siren will be delayed until after the "Maximum number of Dial Attempts" (Address 508) is reached. Care should be exercised when enabling this option if a higher number of "Maximum Dial Attempts" is programmed. On some sites it may be possible for high numbers of Zone alarms being reported, to delay the Sirens for an unacceptable length of time. In this instance it is recommended to select "Dialer Lockout" (Address 651-666, Option 3) in the Zone Options, and set the Dialer Swinger Shutdown Count (Address 914) to a low value to minimise the number of "hits" reported for each Zone.</p> <p><u>Call Forwarding.</u> If "Call Forwarding is enabled, the "Call Divert" (Address 502) and "Un-divert" Telephone numbers (Address 503) must be programmed.</p>

<u>ADDRESS</u>	<u>DEFAULT</u> (Data Type)	<u>FUNCTION</u>
892	(Option Data)	<p>GENERAL OPTIONS. 3.</p> <p>1 - 6 Digit PIN codes (Normally 4 Digits) 2 - Automatic Battery Testing. 3 - Battery Test on Arming. AC is disconnected for 3 secs when any Area is armed so that Battery volts can be checked. 4 - Pulse Count Handover. When enabled, an Alarm on any Pulse count Zone increments all Pulse count values. 5 - Keyswitch Zones Latching. Keyswitch Zones are Normally Momentary. See details below. 6 - Siren output operates as Auxiliary. If selected, Programming Options for Auxiliary 0 will determine operation. 7 - Flash on Strobe for Wireless Remote Key operations. 8 - Flash on Strobe (for 3 Seconds) on any successful communication with a Central Station. Note: Any communication will flash the strobe including periodic test reports.</p> <p><u>6 Digit PIN Codes.</u> If this option is selected: - The Factory default Installer PIN Code (User 1) becomes 2 3 4 5 6 7 - The Factory default Master PIN Code (User 2) becomes 0 1 2 3 4 5 - All PIN Codes <u>must be</u> 6 digits long.</p> <p><u>Automatic battery test.</u> IMPORTANT NOTE: Enabling Automatic battery test is <u>highly recommended</u> as a Low Battery Alarm can only be generated if the battery falls below 10.5V during a Battery Test, or when the AC input is not present. When this function is enabled the system will test the battery every 8 hours; At Midnight, 8 AM and 4 PM every day. This involves disconnecting the AC supply for 4 minutes and measuring the battery voltage under load. If the battery voltage falls below 11.2V +/-0.3V, a "Low Battery" System Input alarm will be generated.</p> <p><u>Key-switch operation.</u> Momentary: (Default setting) When this function is enabled, the state of the Area will toggle whenever there is a "Seal to Alarm" transition on the Keyswitch Zone. The "Alarm to Seal" transition will be ignored. Latching: When this function is enabled, the Keyswitch will Arm the Area when it goes "Unsealed" and Disarm the Area when it returns to "Sealed".</p> <p><u>Flash on Strobe for Wireless operations.</u> Any Auxiliary defined as Type 1-Burglary will flash on Wireless Remote Arm/Disarm operations. Arm (Button 1) - 1 Flash. Disarm (Button 2) - 2 Flashes. Error (Already Armed) - 5 Flashes. "Flash" is 1 Sec flash in a 2 sec period.</p>

<u>ADDRESS</u>	<u>DEFAULT</u>	<u>FUNCTION</u>
893	(Data Type) (Option Data)	GENERAL OPTIONS. 4. ACCESS OPTIONS
	1 - No	1 - Enable reporting of Door Forced event
	2 - No	2 - Enable reporting of Door Open Too Long event
	3 - No	3 - Enable Access review written into eeprom
	4 - No	4 - Blind Dial on any dial event. The line is picked up, tested for line voltage, if present wait 3 seconds then dial, regardless of the type of tone present.
	5 - No	5 - Swinger Shutdown counter is used for System Inputs. (refer System Inputs, 898 and 899 and Swinger counters 913 and 914)
894-896	Spare.	

SYSTEM INPUTS OVERVIEW

System Inputs are system events that can generate alarms.

System Inputs have three programmable options; Siren enable, Dialer enable and Siren tone. Siren enable and Dialer enable are programmed individually for selected System Inputs, while the Siren tone setting applies to all System Inputs that can activate the Siren.

System Inputs are always enabled. When in alarm, System Inputs that represent Fault or Tamper conditions will be indicated by the "Fault" Lamp on the LED Terminal.

Details of individual System Input alarms can be viewed via the "View Fault History" function, NEXT 13. This function uses the Zone Lamps to display any System Inputs that have had an alarm in the last 5 Arming periods.

Flashing = Currently in alarm.

ON = Historical alarm.

To enable selected System Inputs to activate the Siren and/or Dialer, the "Siren Enable" and "Dialer Enable" options must be programmed.

A wide range of System Inputs are available, full details are provided in the "System Inputs" Table in Section 10

897 (Option Data)

SYSTEM INPUT SIREN ENABLE

Siren operation for various System Inputs can be enabled by selecting the required System Input siren enable options.

1 - No	1 - AC fail
2 - No	2 - Low battery
3 - Yes	3 - Cabinet Tamper
4 - No	4 - Keypad Lockout
5 - No	5 - Comm Fail / System Reset / Real-Time-Clock Problem
6 - No	6 - Siren Monitor
7 - No	7 - LAN Fuse / Battery Fuse
8 - No	8 - Door Forced Alarm

Keypad Lockout. This function is normally enabled (via the defaults) with a "Keypad Lockout Time" of 60 seconds. To disable, set the Lockout time to zero. (Address 905)

<u>ADDRESS</u>	<u>DEFAULT</u> (Data Type)	<u>FUNCTION</u>																
898	(Option Data)	<p>SYSTEM INPUT DIALER ENABLE</p> <p>Dialer reporting for various System Inputs can be enabled by selecting the required System Input dialer enable options.</p> <table border="0"> <tr> <td>1 - Yes</td> <td>1 - AC fail</td> </tr> <tr> <td>2 - Yes</td> <td>2 - Low battery</td> </tr> <tr> <td>3 - Yes</td> <td>3 - Cabinet Tamper</td> </tr> <tr> <td>4 - No</td> <td>4 - Keypad Lockout</td> </tr> <tr> <td>5 - Yes</td> <td>5 - Comm Fail / System Reset / Real-Time-Clock Problem</td> </tr> <tr> <td>6 - Yes</td> <td>6 - Siren Monitor</td> </tr> <tr> <td>7 - Yes</td> <td>7 - LAN Fuse / Battery fuse</td> </tr> <tr> <td>8 - No</td> <td>8 - Zone Self-test Fail</td> </tr> </table>	1 - Yes	1 - AC fail	2 - Yes	2 - Low battery	3 - Yes	3 - Cabinet Tamper	4 - No	4 - Keypad Lockout	5 - Yes	5 - Comm Fail / System Reset / Real-Time-Clock Problem	6 - Yes	6 - Siren Monitor	7 - Yes	7 - LAN Fuse / Battery fuse	8 - No	8 - Zone Self-test Fail
1 - Yes	1 - AC fail																	
2 - Yes	2 - Low battery																	
3 - Yes	3 - Cabinet Tamper																	
4 - No	4 - Keypad Lockout																	
5 - Yes	5 - Comm Fail / System Reset / Real-Time-Clock Problem																	
6 - Yes	6 - Siren Monitor																	
7 - Yes	7 - LAN Fuse / Battery fuse																	
8 - No	8 - Zone Self-test Fail																	
899	(Option Data)	<p>EMERGENCY OPTIONS</p> <p>These options determine how the PANIC, FIRE, MEDICAL, and DURESS alarms will be processed. These settings will affect:</p> <ul style="list-style-type: none"> - Panic alarms generated by Keypad Panic AND Zone Inputs programmed as the "24 Hour Panic" Zone Type. (Zone Type 12) - Fire alarms generated by Keypad Fire. (Siren & Dialer options for "24Hr Fire Zones are determined by Zone Options) - Medical alarms generated by Keypad Medical. - Duress alarms generated by Keypad Duress AND Zone Inputs programmed as the "24Hr Duress" Zone Type. (Zone Type 13) <table border="0"> <tr> <td>1 - Yes</td> <td>1 - Panic alarms will activate the Siren.</td> </tr> <tr> <td>2 - Yes</td> <td>2 - Panic alarms will activate the Dialer.</td> </tr> <tr> <td>3 - Yes</td> <td>3 - Fire alarms will activate the Siren.</td> </tr> <tr> <td>4 - Yes</td> <td>4 - Fire alarms will activate the Dialer.</td> </tr> <tr> <td>5 - Yes</td> <td>5 - Medical alarms will activate the Siren.</td> </tr> <tr> <td>6 - Yes</td> <td>6 - Medical alarms will activate the Dialer.</td> </tr> <tr> <td>7 - No</td> <td>7 - Duress alarms will activate the Dialer.</td> </tr> </table> <p>When enabled, the Emergency alarms generated by the Keypad do not activate the "FAULT" Lamp. However, "View Fault History" (<NEXT> 13) can be used to view any Keypad Emergency Alarms that have occurred in the last 5 Arming periods.</p>	1 - Yes	1 - Panic alarms will activate the Siren.	2 - Yes	2 - Panic alarms will activate the Dialer.	3 - Yes	3 - Fire alarms will activate the Siren.	4 - Yes	4 - Fire alarms will activate the Dialer.	5 - Yes	5 - Medical alarms will activate the Siren.	6 - Yes	6 - Medical alarms will activate the Dialer.	7 - No	7 - Duress alarms will activate the Dialer.		
1 - Yes	1 - Panic alarms will activate the Siren.																	
2 - Yes	2 - Panic alarms will activate the Dialer.																	
3 - Yes	3 - Fire alarms will activate the Siren.																	
4 - Yes	4 - Fire alarms will activate the Dialer.																	
5 - Yes	5 - Medical alarms will activate the Siren.																	
6 - Yes	6 - Medical alarms will activate the Dialer.																	
7 - No	7 - Duress alarms will activate the Dialer.																	

<u>ADDRESS</u>	<u>DEFAULT</u> (Data Type)	<u>FUNCTION</u>
	(Value Data)	TIMERS AND COUNTERS
900	90 Seconds	<p>HOMEGUARD TIME (HOME ZONE ENTRY DELAY) (0 TO 255 SECONDS)</p> <p>Sets the period of time for Entry Delay on Zones programmed to be delayed in Home Mode. e.g. Zone Types 4, 6 and 9. This timer will apply when any of these types of Zones are activated in an Area that is Armed in Home Mode.</p>
901	2	<p>PULSE COUNT (0 - 15)</p> <p>For any Zone defined as a Pulse Count Zone, the Zone must go into alarm at least the number of times specified in the "Maximum Pulse count", within the specified "Pulse time" for the alarm to be recognised. This data sets the maximum Pulse count for any Zones defined as "Pulse count" Zones in the Zone Options. (Addresses 651 to 666, Option 4.)</p>
902	60 Seconds	<p>PULSE TIME (0 - 255 SECONDS)</p> <p>This data sets the Pulse count period, for any Zones defined as Pulse count Zones in the Zone Options. (Addresses 651 to 666, Option 4)</p>
903	0 Arming Periods (Zone Self-Test Disabled)	<p>ZONE SELF-TEST PERIOD(0 - 16 ARMING PERIODS)</p> <p>This data sets the number of arming periods to be included in the Zone Self-Test processing. Any Zone defined as a Self-Test Zone must go un-sealed at least once during this Self-Test period, or a Self-Test system input alarm will be generated. The Self-Test Zone option is enabled by Option 5 in Addresses 651 (Zone 1) to 666 (Zone 16).</p> <p>A setting from 0 to 16 arming periods can be defined. 0 = Zone Self-Test Disabled.</p>
904	5 Minutes	<p>SIREN TIME (0 TO 255 MINUTES)</p> <p>This Address sets the time the siren will sound when an alarm has occurred on a Zone Input.</p> <p>Note that an alarm on a Zone Input will only activate the Siren when:</p> <ul style="list-style-type: none"> - The Zone Type selected is in the range of Type 0 to Type 12. (Address 601 [Zone 1] to 616 [Zone 16]) - The Zone Options (Address 651 [Zone 1] to 666 [Zone 16]) must have Option 1 (Silent), Disabled. - For Zone Types 11 (24Hr Fire) & 12 (24Hr Panic), Siren activation must also be enabled in the "Emergency Options". (Address 899: Option 1-Panic alarm sounds Siren. Option 3-Fire alarm sounds Siren) - The Zone Input must have at least one Area assigned. <p>The Siren Time does not apply to System Inputs. Siren operation for System Inputs is determined by the settings in Address 897 - System Input Siren enable, and Address 890, Option 7 - Enable Special Siren Tone for System Alarms.</p>

<u>ADDRESS</u>	<u>DEFAULT</u> (Data Type)	<u>FUNCTION</u>
905	5 Minutes	<p>KEYPAD LOCKOUT TIME (0 TO 255 MINUTES)</p> <p>Sets the period of time that the keypad will be locked out after 5 incorrect PIN Code login attempts in a row.</p> <p>For Keypad Lockout to function, the setting must be non-zero. Siren activation for Keypad Lockout can be enabled in Address 897, Option 4. Dialer activation for Keypad Lockout can be enabled in Address 898, Option 4.</p>
906	0 Minutes	<p>AC REPORT DELAY(0 TO 255 MINUTES)</p> <p>Sets the period of time that the 16V AC input must be continuously disconnected before an AC Fail Alarm is reported. CAUTION: If an AC Report Delay time is programmed, the system Owner/User must be made aware that if the AC supply fails and the Battery is in poor condition, the system may shut down before the AC fail is reported to the Central Monitoring Station, leaving the premises unmonitored and/or unprotected. If an AC Report Delay is required, ensure that Automatic Battery testing is enabled (Address 892, Option 2), keep the delay period as short as possible and advise the system Owner/User of the implications of the function.</p>
907	255 Seconds	<p>AUTO-ARM PRE-WARN TIME (WARNING TIME BEFORE AN AUTO-ARM OCCURS) (0 TO 255 SECONDS)</p> <p>Sets the period of time that a warning indication will be provided when an Area is about to be automatically armed by a TimeZone, or by the Re-Autoarm function. Entering a valid PIN number and OFF key will stop the timer and then restart the auto rearm timer. A value of 0 means no Pre-warning. Note that the Pre-warn time is added to the Auto-arm time. e.g. If the Area is programmed to arm at 7 PM with a Pre-warn time of 120 Seconds, the Area will arm at 7:02 PM. The Autoarm Pre-warn indication is provided by Terminals associated with the Area about to be armed, and by the relevant Auxiliary Event Types; 46 (Area 1) to 49 (Area 4).</p>
908	30 Minutes	<p>RE-AUTO-ARM TIME (PERIOD OF NO ZONE ACTIVITY BEFORE AREA WILL AUTO-ARM) (0 TO 255 MINUTES)</p> <p>The Re-Autoarm function allows one or more Areas to be programmed to automatically arm when no activity is detected on the Zone Inputs in the Area for a specified period of time. This function can be used for a number of purposes including:</p> <ul style="list-style-type: none"> • The ability to ensure that Areas are not accidentally left dis-armed when all personnel have vacated the site. • Turning off particular building services (lights, aircon, etc) when no personnel are detected in the Area. • Keyswitch or Button operated "Deadman" functions. • The timer restarts as soon as movement is sensed.

<u>ADDRESS</u>	<u>DEFAULT</u> (Data Type)	<u>FUNCTION</u>
		<p>Operation.</p> <p>a) When an Autoarm Area is disarmed, the Re-Autoarm timer will be started for that Area.</p> <p>b) While the timer is running, any Zone Input activity detected in the Area will cause the timer to be re-started. (Thereby preventing the Area from Re-arming)</p> <p>c) When the Re-Autoarm timer has run for the specified time <u>without</u> detecting any Zone Input activity, the Area will automatically be Re-armed.</p> <p>To implement the Re-Autoarm feature, the following options must be programmed:</p> <p>1) The Area must be programmed as an Autoarm Area. i.e. A TimeZone must be assigned to the Area in the Area Arming options. (Address 551 [Area 1] to 554 [Area 4])</p> <p>NOTE: If you do not wish the Area to turn On at the End time specified in the TimeZone, assign a TimeZone that has the Start <u>and</u> End times programmed to 00:00.</p> <p>2) Program a "Re-Autoarm Time" to a value of 1 to 255 Minutes to specify how long the Area can remain dis-armed without detecting any Zone Input activity. (If this period expires without any Zone Input activity being detected, the Area will automatically arm)</p> <p>3) It is recommended that the Auto-Arm Pre-Warn Time (Address 907) and/or Area Exit Delay Time (Address 541 to 544) is programmed for the Area/s to provide a warning that the Area is about to automatically Arm.</p> <p>Settings:</p> <p>0 There will be no Re-autoarm function.</p> <p>1 to 255 Re-Autoarm Timer Value.</p>
909	5 Seconds	<p>ENHANCED TERMINAL AUXILIARY TIME (0 TO 255 SECONDS) (RF AND ACCESS)</p> <p>Sets the time period that the Auxiliaries on an RF Terminal will be activated when a Wireless Remote Key activates an Auxiliary Event.</p>
910	0 Seconds	<p>SIREN HOLD-OFF TIME (0 TO 255 SECONDS)</p> <p>Sets the time period that the activation of the Siren Speaker output will be delayed after an alarm event occurs. Applies to Siren Speaker O/P & Auxiliary Event Type 9.</p>
911	60 Seconds	<p>"24 HR FIRE" ZONE (SMOKE DETECTOR) IGNORE TIME (0 TO 255 SECONDS)</p> <p>This timer is activated on any "Smoke Detector Reset" Auxiliary Event and sets the time period that the system will ignore alarms on Zones programmed as Zone Type 11 - "24 Hour Fire".</p>
912	30 Minutes	<p>WALK TEST TIME (0 TO 255 MINUTES)</p> <p>This timer is activated when a Walk Test is started and sets the time that the system will remain in Walk Test mode before automatically exiting. The timer will be cancelled if the Walk Test is exited by pressing the <CLR> key on the Terminal.</p>

<u>ADDRESS</u>	<u>DEFAULT</u> (Data Type)	<u>FUNCTION</u>
913	16	<p>SIREN SWINGER SHUTDOWN COUNT (0 - 255)</p> <p>Number of times Zone Input alarms can trigger the Siren before Siren Lockout. Only alarms on Zones with "Siren Lockout" (Address 651 - 666, Option 2) enabled will increment the counter. When the count is met any further activation of the Siren by these Zones will be locked out. (i.e. Zones without the "Siren Lockout" option enabled, and system alarms such as Panic, Max PIN attempts, etc. cannot increment the counter and Siren operation will not be locked out for these alarms)</p> <p>The Counter is reset when the Area is turned Off by any method. That is, when a counter is started (decrementing) by any event, it will be reset to its original value the next time any Area is turn OFF. Note that a Siren Swinger Shutdown value of 0 will disable Siren operation for alarms on all Zones with "Siren Lockout" enabled.</p>
914	16	<p>DIALER SWINGER SHUTDOWN COUNT (0 - 255)</p> <p>Number of times Zone Input alarms can trigger the Dialer before Dialer Lockout. Only alarms on Zones with "Dialer Lockout" (Address 651 - 666, Option 3) enabled will increment the counter. When the count is met any further activation of the Dialer by these Zones will be locked out. (i.e. Zones without the "Dialer Lockout" option enabled, and system alarms such as Panic, Max PIN attempts, etc. cannot increment the counter and Siren operation will not be locked out for these alarms)</p> <p>The Counter is reset when the Area is turned Off by any method. That is, when a counter is started (decrementing) by any event, it will be reset to its original value the next time any Area is turn OFF. Note that a Dialer Swinger Shutdown value of 0 will disable Dialer operation for alarms on all Zones with "Dialer Lockout" enabled.</p>
915-917	SPARE	
918	(Option Data)	<p>ACCESS OPTIONS</p> <p>REX when enabled the OFF key, on the Terminal, will operate the lock auxiliary for the lock open time.</p> <p>Terminal One OFF / # key is recognised as a valid REX. (Factory Default not Enabled) Terminal Two OFF / # key is recognised as a valid REX. (Factory Default not Enabled) Terminal Three OFF / # key is recognised as a valid REX. (Factory Default not Enabled) Terminal Four OFF / # key is recognised as a valid REX. (Factory Default not Enabled)</p> <p>1 - No n/a 2 - No n/a 3 - No n/a 4 - No n/a 5 - No n/a 6 - No n/a 7 - No n/a 8 - No n/a</p>

<u>ADDRESS</u>	<u>DEFAULT</u>	<u>FUNCTION</u>
919	(Data Type) (Option Data)	CARD & PIN DOOR CONTROL normal operation is card or PIN
	1 - No	Terminal One / Door One only accepts CARD & PIN Data. (Factory Default not Enabled)
	2 - No	Terminal Two / Door Two only accepts CARD & PIN Data. (Factory Default not Enabled)
	3 - No	Terminal Three / Door Three only accepts CARD & PIN Data. (Factory Default not Enabled)
	4 - No	Terminal Four / Door Four only accepts CARD & PIN Data. (Factory Default not Enabled)
	5 - No	n/a
	6 - No	n/a
	7 - No	n/a
	8 - No	n/a

10. TABLES.

Auxiliary Event Types	79-81
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AUXILIARY EVENT TYPES

No.	Auxiliary Event Type:	Event On (Valid) when:	Event Off (Invalid) when:
0	User (Master) Control/Test only	Turned On via NEXT 24 "Auxiliary Control & Test" Mode.	Turned Off via NEXT 24 "Auxiliary Control & Test" Mode.
1	Burglary Alarm (Strobe)	Any Burglary alarm. (Alarm on Zone Types 0, 1, 2 or 3)	The Area that the Alarm occurred in, is Disarmed (Turned Off).
2	Fire Alarm	Any Fire alarm. (Alarm on Zone Type 4)	System Dis-armed (Any Area is disarmed) or PIN <OFF> entered.
3	Zone Bypass on Arming	Any Zone Automatically or Manually Bypassed (Isolated) on arming an Area.	Any Area turned off or All Zones De-Isolated.
4	System Alarm	Any System Input in alarm.	No System Input remaining in alarm.
5	System Armed	System fully Armed. Single Area system -Area 1 Armed. Multi Area system - <u>All</u> Areas in the General Open/Close Area List Armed. (Address 507)	Single Area system -Area 1 Armed. Multi-Area system - <u>Any</u> Area in the General Open/Close Area List Disarmed.
6	System Disarmed	System fully Disarmed. Single Area system -Area 1 Disarmed. Multi Area system - <u>All</u> Areas in the General Open/Close Area List Disarmed. (Address 507)	Single Area system -Area 1 Disarmed. Multi-Area system - <u>Any</u> Area in the General Open/Close Area List Armed.
7	Smoke Detector Reset	PIN code, <OFF> is entered at a Terminal after a Fire Zone has been activated.	<u>Must</u> be programmed to turn Off by an Auxiliary Timer.
8	Comms Fail	System failed to report. Follows Comms Fail System Input.	On the next successful dialer communication.
9	External Siren	External Siren (SPK Output) active.	Siren off.
10	Internal Siren	Siren Timer <u>or</u> Siren Hold-off Timer Started.	Siren off.
11	Entry Timer (Any Area)	Any Area Entry timer on.	Entry timer off.
12	Exit Timer (Any Area)	Any Area Exit timer on.	Exit timer off.
13	User Auxiliary A.	PIN Code entered by User Type 4.	Should be programmed to turn Off by Auxiliary Timer.
14	User Auxiliary B.	PIN Code entered by User Type 5.	Should be programmed to turn Off by Auxiliary Timer.
15	Day Alarm.	Any "Day alarm" Zone Type Unsealed when Area not Armed.	<u>Must</u> be programmed to turn Off by an Auxiliary Timer.
16	Bell Squawk	RF Wireless remote action activates Bell Squawk on Siren. Arm (Button 1) - 1 Squawk. Disarm (Button 2) - 2 Squawks. Home Arm (Button 3) / Aux Control (Button 4) - NO Squawks. Error (Area already Armed) - 5 Squawks.	Follows Event
17	RF Auxiliary	RF Wireless remote Button 4	<u>Must</u> be programmed to turn Off by Auxiliary Timer.
21	Zone 1 in Alarm	Zone in Alarm. (When Area is Armed)	<u>Must</u> be programmed to turn Off by Auxiliary Timer.
22	Zone 2 in Alarm		
23	Zone 3 in Alarm		
24	Zone 4 in Alarm		
25	Zone 5 in Alarm		
26	Zone 6 in Alarm		
27	Zone 7 in Alarm		

This table is continued on the following page.

NOTE: Auxiliary Event Type numbers have been structured in a logical manner to cater for expansion while providing a common Event numbering system across all Inner Range IQ Versions.

No.	Auxiliary Event Type:	Event On (Valid) when:	Event Off (Invalid) when:
28	Zone 8 in Alarm	Zone in Alarm. (When Area is Armed)	Must be programmed to turn Off by Auxiliary Timer.
29	Zone 9 in Alarm		
30	Zone 10 in Alarm		
31	Zone 11 in Alarm		
32	Zone 12 in Alarm		
33	Zone 13 in Alarm		
34	Zone 14 in Alarm		
35	Zone 15 in Alarm		
36	Zone 16 in Alarm		
71	Timezone 1	TimeZone Valid.	TimeZone Invalid or Off by Auxiliary Timer
72	Timezone 2		
73	Timezone 3		
74	Timezone 4		
81	Area 1 Armed	Area Armed in Away (Normal) mode or Home mode. If an Exit Delay is programmed for the Area, the Event is turned On at the start of the Exit Delay.	Area Dis-armed .
82	Area 2 Armed		
83	Area 3 Armed		
84	Area 4 Armed		
91	Area 1 Armed In Home Mode	Area Armed in Home mode.	Area Dis-armed.
92	Area 2 Armed In Home Mode		
93	Area 3 Armed In Home Mode		
94	Area 4 Armed In Home Mode		
101	Area 1 Auto Arm Prewarn	Auto-Arm Pre-warn started in the specified Area. The Pre-warn timer is programmed in Address 007.	Auto-Arm Pre-warning expired. (Area on)
102	Area 2 Auto Arm Prewarn		
103	Area 3 Auto Arm Prewarn		
104	Area 4 Auto Arm Prewarn		
111	Alarm. General Area / Area1	Any Alarm in the specified Area. Operates in either Away (Normal) mode or Home mode.	Area Disarmed.
112	Alarm. Area 2		
113	Alarm. Area 3		
114	Alarm. Area 4		
121	Entry / Exit. General Area / Area 1	Entry or Exit timer running in the specified Area.	Entry or Exit timer cancelled or expired in Area.
122	Entry / Exit. Area 2		
123	Entry / Exit. Area 3		
124	Entry / Exit. Area 4		

NOTE: Auxiliary Event Type numbers have been structured in a logical manner to cater for expansion while providing a common Event numbering system across all Inner Range IQ Versions.

No.	Auxiliary Event Type:	Event On (Valid) when:	Event Off (Invalid) when:
125	n/a		
-			
130	n/a		
131	Door Forced or DOTL Alarm on Door 1	When this event type is set the Auxiliary operation options and Auxiliary Timer registers are always ignored. On a Door Forced Alarm for Doors the output follows the Door Forced alarm and will remain active until this alarm is cleared by a PIN # then OFF command at the associated terminal. When a Door Open too Long event is initiated on Door One the output pulses on for 500mS every five seconds, the DOTL output will reset when the system detects door closure. This event type is used to fire DC buzzers placed in close proximity to access doors.	
132	Door Forced or DOTL Alarm on Door 2		
133	Door Forced or DOTL Alarm on Door 3		
134	Door Forced or DOTL Alarm on Door 4		
135	n/a		
-			
140	n/a		
141	DOTL Alarm on Door 1	When this event type is set the Auxiliary operation options and Auxiliary Timer registers are always ignored. When a Door Open too Long event is initiated for Doors, the output pulses on for 500mS every five seconds. This output will reset when the system detects door closure. This event type is used to fire DC buzzers placed in close proximity to access doors.	
142	DOTL Alarm on Door 2		
143	DOTL Alarm on Door 3		
144	DOTL Alarm on Door 4		

NOTE: Auxiliary Event Type numbers have been structured in a logical manner to cater for expansion while providing a common Event numbering system across all Inner Range IQ Versions.

AUXILIARY ACTIONS

Type	ACTION	DESCRIPTION
0	Follow Event Status	On when Event goes Valid / Off when Event goes Invalid.
1	Invert Event Status	Off when Event goes Valid / On when Event goes Invalid.
2	One Shot timed in Seconds	On when Event goes Valid for a time period specified in Seconds. When this Action is triggered, it will always time for the full Timer Value specified.
3	One Shot timed in Minutes	On when Event goes Valid for a time period specified in Minutes. When this Action is triggered, it will always time for the full Timer Value specified.
4	One Shot on Invalid timed in Seconds	On when Event goes Invalid for a time period specified in Seconds. When this Action is triggered, it will always time for the full Timer Value specified.
5	One Shot on Invalid timed in Minutes	On when Event goes Invalid for a time period specified in Minutes. When this Action is triggered, it will always time for the full Timer Value specified.
6	One Shot with Reset timed in Seconds	On when Event goes Valid for a time period specified in Seconds. Off when timer expires <u>or</u> when Event goes Invalid.
7	One Shot with Reset timed in Minutes	On when Event goes Valid for a time period specified in Minutes. Off when timer expires <u>or</u> when Event goes Invalid.
8	One Shot on Invalid with Reset timed in Seconds	On when Event goes Invalid for a time period specified in Seconds. Off when timer expires <u>or</u> when Event goes Valid.
9	One Shot on Invalid with Reset timed in Minutes	On when Event goes Invalid for a time period specified in Minutes. Off when timer expires <u>or</u> when Event goes Valid.
10	One Shot with Retrigger timed in Seconds	On when Event goes Valid for a time period specified in Seconds; Subsequent "Valid" will restart the timer if still running.
11	One Shot with Retrigger timed in Minutes	On when Event goes Valid for a time period specified in Minutes; Subsequent "Valid" will restart the timer if still running.
12	One Shot on Invalid with Retrigger timed in Seconds	On when Event goes Invalid for a time period specified in Seconds; Subsequent "Invalid" will restart the timer if still running.
13	One Shot on Invalid with Retrigger timed in Minutes	On when Event goes Invalid for a time period specified in Minutes; Subsequent "Invalid" will restart the timer if still running.
14	Toggle on Valid	Toggles state when Event goes Valid.
15	Toggle on Invalid	Toggles state when Event goes Invalid.

SYSTEM INPUTS

ALARM	INPUT No.	Zone Lamp *4	DESCRIPTION	
			Goes Into Alarm when:	Restores when:
AC Fail	101	1	The AC mains has been absent for more than the specified time period (AC Fail Delay). When the input is in alarm the PWR indicator on the Terminal will flash. Note: The "FAULT" Lamp will be come ON instantly when AC is absent.	The AC mains is restored.
Low Battery	102	2	The battery voltage falls below 10.5V during Battery Test or while AC supply is not present. (Indicates Battery voltage is too low to provide backup power if AC fails.)	Next successful Battery Test.
Cabinet Tamper	103	3	The Control Panel cabinet cover is removed or the cabinet is removed from it's mounting surface, causing the Tamper Input to go unsealed.	PIN <OFF> is entered when Cabinet Tamper Input is Sealed.
Siren Monitor Alarm	104	4	The Siren speaker is disconnected from the Control Panel. *1	The Siren speaker connection is restored.
PWR Fuse fail	105	5	Power fuse has blown. (Due to Short circuit or over-current condition.)	The fuse has been replaced.
Battery Fuse fail	106	6	Battery fuse has blown. (Due to Short circuit or over-current condition.)	The fuse has been replaced.
Comms Fail	107	7	System failed to report. The system is unsuccessful in calling the receiving party after the "Maximum Attempts" on both the primary and secondary telephone numbers. (The system will try to dial again after waiting 30 minutes.) *2	On the next successful call.
System Reset / RTC Problem	108	8	The Control panel microprocessor has been reset. e.g. AC and Battery power lost and restored. (The Time and Date will be incorrect and should be reset with the <NEXT>, 33 function)	PIN <OFF> is entered
Keypad Lockout	109	9	The System has registered 5 incorrect PIN code attempts in a row. The system will not allow keypad access for a specified period of time. (See KEYPAD LOCKOUT TIME.)	The lockout period has expired.
Zone Self Test Fail	110	10	Any zone flagged as a self-test zone has failed the self-test criteria.	No restoral generated.
Keypad Medical Alarm *3	111	11	Medical Alarm has been activated on a Terminal keypad.	No restoral generated.
Keypad Panic Alarm *3	112	12	Panic Alarm has been activated on a Terminal keypad.	No restoral generated.
Keypad Duress Alarm *3	113	13	A Duress PIN code has been entered on a Terminal keypad.	No restoral generated.
Keypad Fire Alarm *3	114	14	Fire Alarm has been activated on a Terminal keypad.	No restoral generated.
Door Forced Alarm		15	Activated when the reed switch goes into alarm without a valid request to open the door	PIN <OFF> is entered; or card swiped
Door Held Open too Long		16	Activated when the door is open for longer than a period equal to 4 times that of the time set at location 909	Door Closed
Test Report	120		Automatic (Periodic) or Manual Test Report is triggered.	No restoral generated.

NOTES:

- 1) If the Siren output is not used, or a High impedance device is connected (e.g. Piezo siren), a 6k8 resistor must be installed across the Siren output to prevent the Siren Monitor Alarm from being activated.
- 2) Period specified by Telecommunications authority requirements.
- 3) Siren and Dialler operations for Keypad System Input alarms (Medical, Panic, Duress and Fire) are programmed in the "Emergency Options" programming. (Address 899)
- 4) "View Fault History" (<NEXT>, 13) uses the Zone Lamps to display any System Inputs that have had an alarm in the last 5 Arming periods. Flash=Currently in alarm. ON=History.

CONTACT ID EVENT CODE'S

Each event in Contact ID is sent as a string of 16 DTMF digits. For example, an alarm followed by a restore and then an opening would be 3 events. All Contact ID strings follow the format: CCCC 18 SXYZ GG PPP K where:

CCCC 4 digit client code that identifies the panel or site.

18 Always the digits "18".

SXYZ Event code.

S = Status. 1 - Alarm or Opening. 3 - Restore or Closing. (Note: Alarm Restores only reported on Area Opening)

XYZ = Type of Event.

GG Group Byte which signifies the Area being Opened/Closed or the Area in which the alarm occurred.

PPP Point ID. This refers to either the Point number or the User ID depending on the type of event.

K Checksum.

Some receivers display a "U" (User) or a "C" (Alarm Point) in front of the PPP, depending on which of these PPP represents.

TYPE OF ALARM MESSAGE	EVENT CODE	GROUP BYTE (AREA)	POINT ID
Zone Type (Zone Inputs)	XYZ	GG	PPP
0 - Instant (Burglary)	130	01 to 04	001 to 016
1 - Delayed (Entry/Exit)	130	01 to 04	001 to 016
2 - Handover	130	01 to 04	001 to 016
3 - 24hr Burglary	130	01 to 04	001 to 016
4 - 24hr Fire	110	01 to 04	001 to 016
5 - 24hr Panic	120	01 to 04	001 to 016
6 - 24hr Duress	121	01 to 04	001 to 016
Tamper	144	01 to 04	001 to 016
Isolate	570	01 to 04	001 to 016
System Inputs			^ = Restore not reported.
AC Fail (Mains power trouble)	301	00	101
Low Battery	302	00	102
Cabinet Tamper (Expander Mod. Tamper)	145	00	103
Siren Monitor Alarm	320	00	104
LAN Fuse fail	300	00	105
Battery Fuse fail	300	00	106
Comms Fail	354	00	107 ^
System Reset	305	00	108 ^

TYPE OF ALARM MESSAGE	EVENT CODE	GROUP BYTE (AREA)	POINT ID
Keypad Lockout	140	00	109 ^
Zone Self Test Fail	307	00	110 ^
Keypad Medical Alarm (Personal Emerg.)	100	00	111 ^
Keypad Panic Alarm	120	00	112 ^
Keypad Duress Alarm	121	00	113 ^
Keypad Fire Alarm	110	00	114 ^
Spare	-	00	115 ^
Spare	-	00	116 ^
Spare	-	00	117 ^
Spare	-	00	118 ^
Spare	-	00	119 ^
Test Report (Periodic)	602	00	120 ^
System Input Isolate	570	00	101 to 120
Open / Close			
By User PIN code - Single Area	401	01 to 04	001 to 047
By User PIN code - General Open/Close	402	00	001 to 047
By System* - Single Area	403	01 to 04	48
By System* - General Open/Close	402	00	48
Quick Arm	408	01 to 04	48

* By Keypress / Remote / TimeZone / etc.

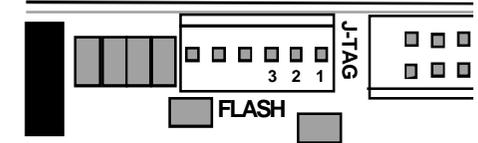
FACTORY DEFAULT AND INSTALLER PRESET CONFIGURATIONS

There are four pre-defined settings available to the Installer:

The **Factory Default**, and Three "8 Zone / Single Area" **Installer presets: 1-No Dialer 2-Contact ID Dialer 3-Domestic Dialer.**

(Hardware Reset; Short pins 2&3 of the flash header for at least 5 seconds while powering up),

CAUTION: Defaulting the system overwrites all configuration values currently programmed in memory.



The following table provides details of the programming performed by the 4 Default Options. Hardware reset , sets the Factory Defaults, in cases where the password is lost or the Terminal is not functioning. The other presets are set using, NEXT 098.

The factory default settings are also shown throughout the programming reference section of this manual. Details of the defaulting procedure are provided on page 16.

ADDRESS	DESCRIPTION	FACTORY DEFAULT	INSTALLER PRESET 1 NO DIALER	INSTALLER PRESET 2 CONTACT ID DIALER	INSTALLER PRESET 3 DOMESTIC DIALER
505	Reporting Format	0	0	1	2
506	Dialler Options	1,2,3	0	2,3,4,7	1
507	General Open / Close Area List	1	1	1	1
508	Maximum Dial Attempts	8	8	8	8
509	Test Report Period	7	0	7	7
510	Test Report Hour	3	3	3	3
511	Test Report Minute	30	30	30	30
512	Remote Connect Method	1	1	1	1
513	Rings to Answer	9	9	9	9
514	Answer Machine (Fax) Bypass	0	0	0	0
515	Port 0 comms task	1	1	1	1
516	Port 0 Baud Rate	3	3	3	3
517	Port 1 comms task	2	2	2	2
518	Port 1 Baud Rate	3	3	3	3
521	Area1 Client Code	9999	9999	9999	9999
522	Area2 Client Code	-	-	-	-
523	Area3 Client Code	-	-	-	-
524	Area4 Client Code	-	-	-	-
531	General Area / Area 1 Entry Delay Time	30	30	30	30
532	Area 2 Entry Delay Time	30	30	30	30
533	Area 3 Entry Delay Time	30	30	30	30
534	Area 4 Entry Delay Time	30	30	30	30
541	General Area / Area 1 Exit Delay Time	60	60	60	60
542	Area 2 Exit Delay Time	60	60	60	60
543	Area 3 Exit Delay Time	60	60	60	60
544	Area 2 Exit Delay Time	60	60	60	60

ADDRESS	DESCRIPTION	FACTORY DEFAULT	INSTALLER PRESET 1 NO DIALER	INSTALLER PRESET 2 CONTACT ID DIALER	INSTALLER PRESET 3 DOMESTIC DIALER
569	Multi Area Options	0	0	0	0
570	Holiday 1 Programming month	1	1	1	1
571	Holiday 1 Programming day	1	1	1	1
572	Holiday 2 Programming month	12	12	12	12
573	Holiday 2 Programming day	25	25	25	25
574	Holiday 3 Programming month	12	12	12	12
575	Holiday 3 Programming day	26	26	26	26
590	Day Light Savings Start Month	0	0	0	0
591	Day Light Savings Start Week	5	5	5	5
592	Day Light Savings Day of Week Start	1	1	1	1
593	Day Light Savings End Month	0	0	0	0
594	Day Light Savings End Week	5	5	5	5
595	Day Light Savings Day of Week End	1	1	1	1
600	End of Line Resistor	3	3	3	3
601	Zone type zone 1	1	1	1	1
602	Zone type zone 2	2	2	2	2
603	Zone type zone 3	0	0	0	0
604	Zone type zone 4	0	0	0	0
605	Zone type zone 5	0	0	0	0
606	Zone type zone 6	0	0	0	0
607	Zone type zone 7	0	0	0	0
608	Zone type zone 8	0	0	0	0
651	Zone Options Zone 1	2	2	2	2
652	Zone Options Zone 2	2	2	2	2
653	Zone Options Zone 3	2	2	2	2
654	Zone Options Zone 4	2	2	2	2
655	Zone Options Zone 5	2	2	2	2
656	Zone Options Zone 6	2	2	2	2
657	Zone Options Zone 7	2	2	2	2
658	Zone Options Zone 8	2	2	2	2

ADDRESS	DESCRIPTION	FACTORY DEFAULT	INSTALLER PRESET 1 NO DIALER	INSTALLER PRESET 2 CONTACT ID DIALER	INSTALLER PRESET 3 DOMESTIC DIALER
701	Zone 1 Area	1	1	1	1
702	Zone 2 Area	1	1	1	1
703	Zone 3 Area	1	1	1	1
704	Zone 4 Area	1	1	1	1
705	Zone 5 Area	1	1	1	1
706	Zone 6 Area	1	1	1	1
707	Zone 7 Area	1	1	1	1
708	Zone 8 Area	1	1	1	1
750	Time Zone 1 Start hour	9	9	9	9
751	Time Zone 1 Start Minute	0	0	0	0
752	Time Zone 1 End Hour	17	17	17	17
753	Time Zone 1 End Minute	0	0	0	0
754	Time Zone 1 Valid days of the week	2,3,4,5,6	2,3,4,5,6	2,3,4,5,6	2,3,4,5,6
755	Time Zone 2 Start hour	9	9	9	9
756	Time Zone 2 Start Minute	0	0	0	0
757	Time Zone 2 End Hour	13	13	13	13
758	Time Zone 2 End Minute	0	0	0	0
759	Time Zone 2 Valid days of the week	1,7	1,7	1,7	1,7
760	Time Zone 3 Start hour	7	7	7	7
761	Time Zone 3 Start Minute	0	0	0	0
762	Time Zone 3 End Hour	20	20	20	20
763	Time Zone 3 End Minute	0	0	0	0
764	Time Zone 3 Valid days of the week	1,2,3,4,5,6,7,8	1,2,3,4,5,6,7,8	1,2,3,4,5,6,7,8	1,2,3,4,5,6,7,8
765	Time Zone 4 Start hour	20	20	20	20
766	Time Zone 4 Start Minute	0	0	0	0
767	Time Zone 4 End Hour	7	7	7	7
768	Time Zone 4 End Minute	0	0	0	0
769	Time Zone 4 Valid days of the week	1,2,3,4,5,6,7,8	1,2,3,4,5,6,7,8	1,2,3,4,5,6,7,8	1,2,3,4,5,6,7,8
800	Auxiliary Event Type Aux 0	0	0	0	0
801	Auxiliary Event Type Aux 1	1	1	1	1
802	Auxiliary Event Type Aux 2	10	10	10	10

ADDRESS	DESCRIPTION	FACTORY DEFAULT	INSTALLER PRESET 1 NO DIALER	INSTALLER PRESET 2 CONTACT ID DIALER	INSTALLER PRESET 3 DOMESTIC DIALER
830	Auxiliary Timer Value Aux 0	0	0	0	0
831	Auxiliary Timer Value Aux 1	0	0	0	0
832	Auxiliary Timer Value Aux 2	0	0	0	0
860	Auxiliary Action Aux 0	0	0	0	0
861	Auxiliary Action Aux 1	0	0	0	0
862	Auxiliary Action Aux 2	0	0	0	0
890	General Options 1	4,5,6,7,8	4,5,6,7,8	4,5,6,7,8	4,5,6,7,8
891	General Options 2	2,3	2,3	2,3,8	2,3,8
892	General Options 3	2,4	2,4	2,4	2,4
893	General Options 4	0	0	0	0
897	System Input Siren Enable	3	3	3	3
898	System Input Dialer Enable	1,2,3,5,6,7	0	1,2,3,5,6,7	1,2,3,5,6,7
899	Emergency Options	1,2,3,5,6	1,3,5	1,2,3,5,6,7	1,2,3,5,6,7
900	Home Zone Entry Delay	90	90	90	90
901	Pulse Count	2	2	2	2
902	Pulse Time	60	60	60	60
903	Zone Self Test Period	0	0	0	0
904	Siren Time	5	5	5	5
905	Keypad Lockout Time	5	5	5	5
906	AC Report Delay	0	0	0	0
907	Auto Arm Prewarn Time	255	255	255	255
908	Re Auto Arm Time	30	30	30	30
909	Enhanced Terminal Aux Time (Access & RF)	5	5	5	5
910	Siren Hold off Time	0	0	0	0
911	Fire Zone Ignore Time	60	60	60	60
912	Walk Test Time	30	30	30	30
913	Siren Swinger Shutdown Count	16	6	16	16
914	Dialer Swinger Shutdown Count	16	6	16	16
918	Access Option REX control	0	0	0	0
919	Access Option CARD & PIN Door control	0	0	0	0

PRINTER OUPUT, REVIEW FORMAT

General Review is a history of events available to the Upload/Download software or direct to the Printer Comms Task in real time. Events such as alarms, restores, tampers, open, close and system inputs are time stamped and entered into Review. General Review contains a maximum of 128 entries, once Review is full, older events are lost as new ones are entered.

Unique to the IQ Plus is "Access Review" events such as REX button, Door Forced, Door Open Too Long (DOTL), valid and invalid card read and access entry are all viewable (requires an add-on to the Upload/Download software). Access Review contains a maximum of 42 entries, once Review is full, older events are lost as new ones are entered.

General Options can be set, to allow Access Review to be written to General Review, this option should be used with caution because of the limited size of the Review buffer. When this option is set, the Access Review entries will also be directed to the Printer Comms Task for printing in real time.

When a serial port has been set to the Printer Comms Task (Address 515 or 517 option 2), the Review history is sent to that serial port. A **SERIAL** printer is required using the baud rate set for the serial port (Address 516 or 518, option 3)(default is 9600) , 8 bits, no parity. Handshaking is not used.

The Review history is output in the format; "Date Time--Event Text <CR>"

Listed below are the Event Text used:

"AC Fail", "Low Battery", "Cabinet Tamper", "Siren Monitor Alarm ", "LAN Fuse Fail", "Battery Fuse Fail", "Comms Fail", "System Reset ", "Keypad Lockout alarm", "Zone Self Test Fail alarm", "Keypad Medical Alarm ", "Keypad Panic Alarm ", "Keypad Duress Alarm ", "Keypad Fire Alarm ", "Zone n in Area n alarm", "Area n Closed by User n", "Area n Home Armed by User n", "Area n Opened by User n", "User n Unlock Door n—OK", "User n Unlock Door n—Denied", "Door n Forced alarm", "Door n Open Too Long alarm", "Invalid Card Presented at Door n", "Door n Unlocked by REX Button\n"

Where ... n = Zone/Area/User/Door Number.

Example of Review, printer output.

```
27/03/03 13:24:00--Door 4 Unlocked by REX Button
27/03/03 13:26:00--User 1 Unlock Door 4--OK
27/03/03 13:28:00--Door 4 Open Too Long Alarmed
27/03/03 13:30:00--Door 4 Open Too Long Restored
27/03/03 13:32:00--Door 4 Forced Alarmed
27/03/03 13:34:00--Door 4 Forced Restored
27/03/03 13:36:00--Area 3 Closed by User 1
27/03/03 13:38:00--User 4 Unlock Door 3--Denied
27/03/03 13:40:00--Area 3 Opened by User 1
```

IQ SECURITEL REPORT MAPPING

A Securitел report consists of 2 digit pair for each event, upto 4 events may be reported in each report sent (poll).The IQ uses the "Serial" Securitел format only.

The first digit is an 8 bit hexadecimal number, identifying the type or group for the event.
The second digit is an 8 bit hexadecimal number, identifying the specific event within the group.

Opening and Closing events

The first Digit represents the Area Information
The second digit represents the user who caused the event.

Event Description	Hex	Decimal
First Digit		
General Opening	\$31	49
Opening Area 1 ... Area 8	\$32 ... \$39	50 ... 57
System General Opening	\$41	65
System Area Opening Area 1 ... Area8	\$42 ... \$ 49	66 ... 73
General Closing	\$51	81
Closing Area 1 ... Area 8	\$52 ... \$59	82 ... 89
System General Closing	\$60	96
System Closing Area 1 ... Area 8	\$61 ... \$68	97 ... 104
Quick Arm Area1 ... Area 8	\$69 ... \$70	105 ... 112
Second Digit		
Users 001 ... 095	\$01 ... \$5F	001 ... 095
System	\$60	96

Alarm events

The first digit in the Alarm Event represents the type of alarm (Alarm, restore, tamper, isolate etc), whilst the second digit represents the zone (point) number that generated the event.

Event Description	Hex	Decimal
First Digit		
Alarm (priority 2)	\$06	006
Restore (priority 2)	\$08	008
Isolate	\$16	022
Isolate Restore	\$18	024
Tamper	\$0E	014
Tamper Restore	\$10	016
Second Digit		
Zone / Expander ID	\$01 ... \$30	001 ... 048
AC Fail	\$65	101
Low Battery	\$66	102
Cabinet Tamper	\$67	103
Siren Monitor Alarm	\$68	104
LAN fuse fail	\$69	105
Battery Fuse fail	\$6A	106
Communications fail	\$6B	107
System Reset	\$6C	108
Keypad Lockout	\$6D	109
Zone Self Test fail	\$6E	110
Keypad Medical Alarm	\$6F	111
Keypad Panic Alarm	\$70	112
Keypad Duress Alarm	\$71	113
Keypad Fire Alarm	\$72	114
Door Forced	\$73	115
Door Open Too Long	\$74	116
Reserved	\$75 ... \$77	117 ... 119
Test Report	\$78	120
Reserved	\$79 ... \$FE	121 ... 254
Event Unable to be mapped	\$FF	255

11. INDEX.

ALPHABETICAL INDEX OF TOPICS

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24 Hr Fire Zone (Smoke Detector) Ignore Time	911	75
6 Digit PIN codes	892	70
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Access Control	Pages 4, 9, 20, 32, 35, 38	
Activate Walk Test.	23	18
Adding Or Changing A User	401 to 447	19
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Alarm History.....	12	17
Alarms are reported via Dialer.	506	50
All Area Siren Off control.	891	69
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