

Solution 4000 control panel

ICP-SOL4-P | ICP-SOL4-PE

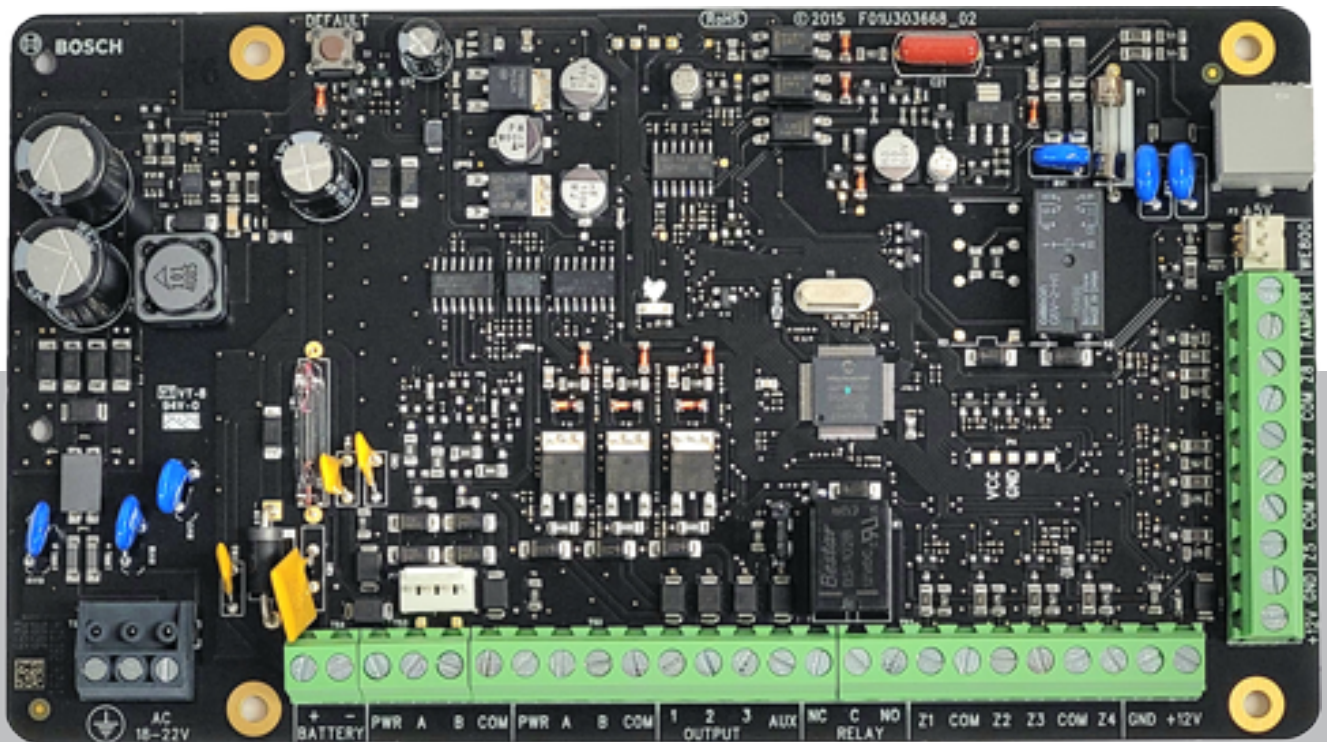


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1 Safety

Use latest software

Before operating the device for the first time, make sure that you install the latest applicable release of your software version. For consistent functionality, compatibility, performance, and security, regularly update the software throughout the operational life of the device. Follow the instructions in the product documentation regarding software updates.



Danger!

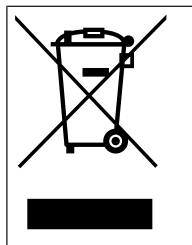
Touching live components can be fatal.
Disconnect the power supply before carrying out installation.



Caution!

Remove all power (AC and battery) before making any connections. Failure to do so might result in personal injury and/or equipment damage.

Old electrical and electronic equipment



This product and/or battery must be disposed of separately from household waste. Dispose such equipment according to local laws and regulations, to allow their reuse and/or recycling. This will help in conserving resources, and in protecting human health and the environment.

2 Introduction

This section includes an introduction to documents for this product and other document-related instructions.

2.1 About documentation

This document contains instructions for a trained installer to properly install, configure, and operate this control panel, and all optional peripheral devices. Review this document before beginning the installation to determine the hardware and wiring requirements for the features used.

Throughout this document, the words “control panel ” refer to all Solution 4000 control panels covered by this document.

Notifications

This document uses Notices, Cautions, and Warnings to draw your attention to important information.



Notice!

These include important notes for successful operation and programming of equipment, or indicate a risk of damage to the equipment or environment.



Caution!

These indicate a hazardous situation which, if not avoided, could result in minor or moderate injury.



Warning!

These indicate a hazardous situation which, if not avoided, could result in death or serious injury.

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2.2 Product manufacturing dates


Use the serial number located on the product label and refer to the Bosch Security Systems website at <http://www.boschsecurity.com/datecodes/>.

The following image shows an example of a product label and highlights where to find the manufacturing date within the serial number.

 **BOSCH**

Model Number
Mat/N: F01Uxxxxxx

7  9
82695 11xxx

8  9
717332 311xxx
0921608202 193xxxx

PRODUCT QTY= 1

3 System overview

3.1 Capacity

Number of...	Solution 4000
Users	64
Keyfobs on WE800EV2 - HCT-4	21
Keyfobs on RADION B810 - RFKF, HCT-4UL	64
Areas / partitions	2
Zones / inputs	8 + 8 (ZD)
Onboard outputs	4
Alphanumeric LCD codepad IUI-SOL-TEXT or ICON LCD codepad IUI-SOL-ICON ¹	4
Touchscreen codepad IUI-SOL-TS5 or IUI-SOL-TS7 ²	1
Wireless receiver WE800EV2 ³	1
RADION receiver B810	1
RADION repeater RFRP	8
B228 8-Input, 2-Output Expansion Module	3
B308 Octo-output Module	3
B426-M Conettix Ethernet Communication Module ⁴	2
B450-M Conettix Plug-in Communicator Interface with B44x Plug-in cellular module	2
B901 Door Controller	4
B520 Auxiliary power supply module	4

Table 3.1: Control Panel Capacities

¹ Including the touchscreen codepad, up to 4 codepads can be used per system. SDI2 Bus supplies max 900 mA for IUI-SOL-TEXT / IUI-SOL-ICON codepads, B810, B308, B426-M and B450-M;

² IUI-SOL-TS5 or IUI-SOL-TS7 codepad on its own uses 800 mA and needs own additional 12 VDC 1A power supply.

³ Receiver WE800EV2 and B810 are mutually exclusive.

⁴ Up to two B426-M/ B450-M can be used per system.

3.2 Order separately

Except the compatible products listed in the Control panel capacity list, order the accessories listed below to aid in the installation of your control panel. If you ordered your control panel in a kit, you might already have these parts.

- Programming software - A-Link Plus

- Transformer - TF008-B
- Control panel enclosure - ICP-SOL-ENC Steel enclosure
- DLA
- Keyswitches
- Battery
- Siren
- Strobe
- RJ11 PSTN terminal

4 Installation workflow

Before installing and operating the control panel, read these instructions. Failure to follow these procedures may cause the device not to function properly. Bosch Security Systems B.V. is not responsible for any devices that are improperly installed, tested, or maintained. This document does not contain special information about local requirements and safety issues. Information on such issues is provided only to the extent that it is needed for operation of the device. Ensure that you are familiar with all safety-related processes and regulations in your area. This also includes how to act in the event of an alarm and the initial steps to take if a fire breaks out. The operating instructions should always be available on site. It is a required part of the system and must be given to the new owner if the system is ever sold.

Use the workflow and checkboxes below as you complete steps.

- Install the enclosure**
- Install the control panel**
- Install and wire the keypads**
- Install and wire the power supplies**
- Install and wire for telephone communication**
- Install and wire for IP communications**
- Install and wire the transformer**
- Install and wire arming devices**
- Install and wire outputs**
- Install and wire inputs**
- Install and wire door controllers**
- Complete the installation**

5 Installation

5.1 Enclosure overview

Use ICP-SOL-ENC Steel enclosure for below Solution 4000 control panel:

- ICP-SOL4-P Control panel, 32-zone
- ICP-SOL4-PE PCB and enclosure, 32 zone, which PCBA is pre-installed in the enclosure

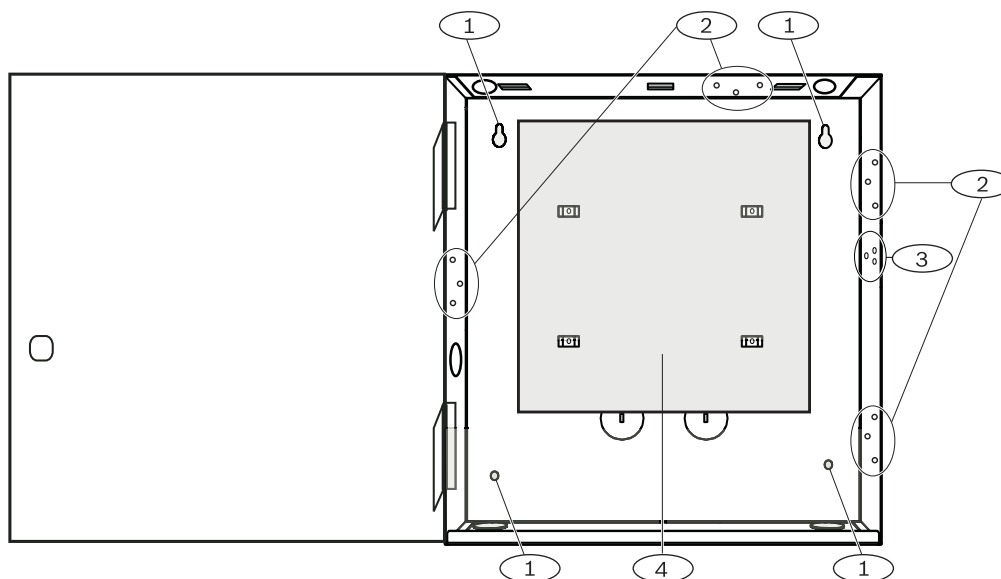


Figure 5.1: ICP-SOL-ENC Steel enclosure

Callout — Description
1 — Enclosure mounting holes (4)
2 — Three-hole pattern for mounting modules (4)
3 — Mounting location for the tamper switch
4 — Mounting plate

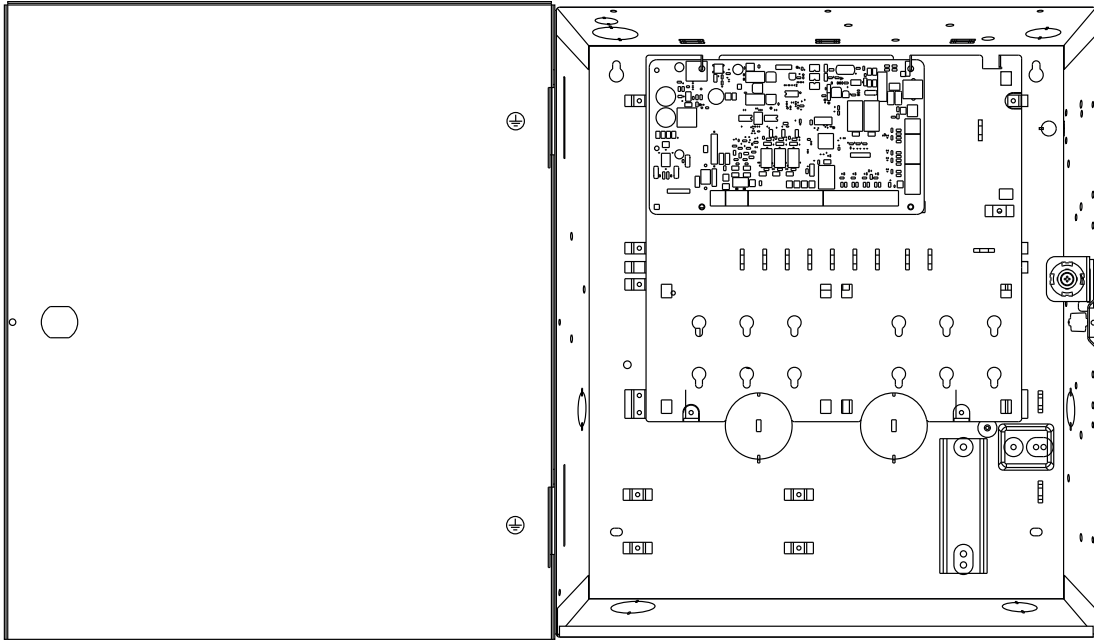


Figure 5.2: ICP-SOL4-PE

5.2 Install the enclosure



Notice!

Electromagnetic interference (EMI)

EMI can cause problems on long wire runs.

1. Remove the knockouts.
2. Mount the enclosure. Use all enclosure mounting holes
3. Pull the wires into the enclosure through the knockouts.
4. Install the lock.

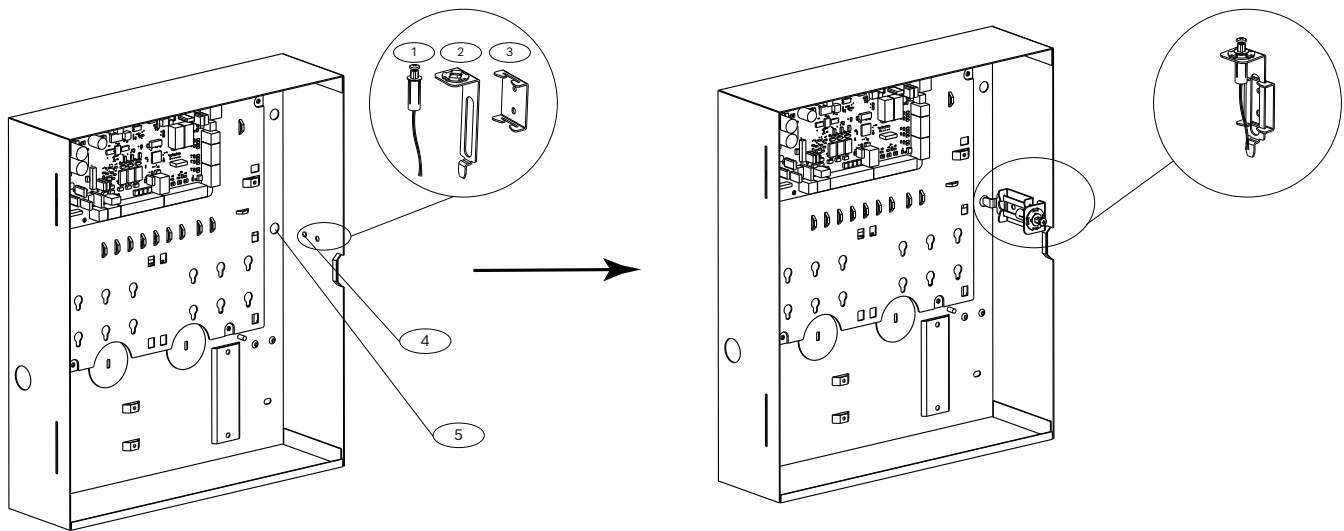


Notice!

Enclosure lock

Always secure the enclosure with the lock when installation is complete.

5.3 Install the tamper switch



1	Tamper switch assembly
2	Tamper switch holder
3	Tamper switch rail
4	Knockout for door tamper
5	Knockout for wall tamper

1. Remove the enclosure knockouts for door tamper and wall tamper.
2. Remove the tamper switch components from the hardware pack.
3. Insert the tamper switch assembly into the tamper switch holder.
4. Mount the tamper switch rail to the inner right side of the enclosure.
5. Secure the tamper switch rail with two supplied screws.
6. Slide the tamper switch holder into the rail.

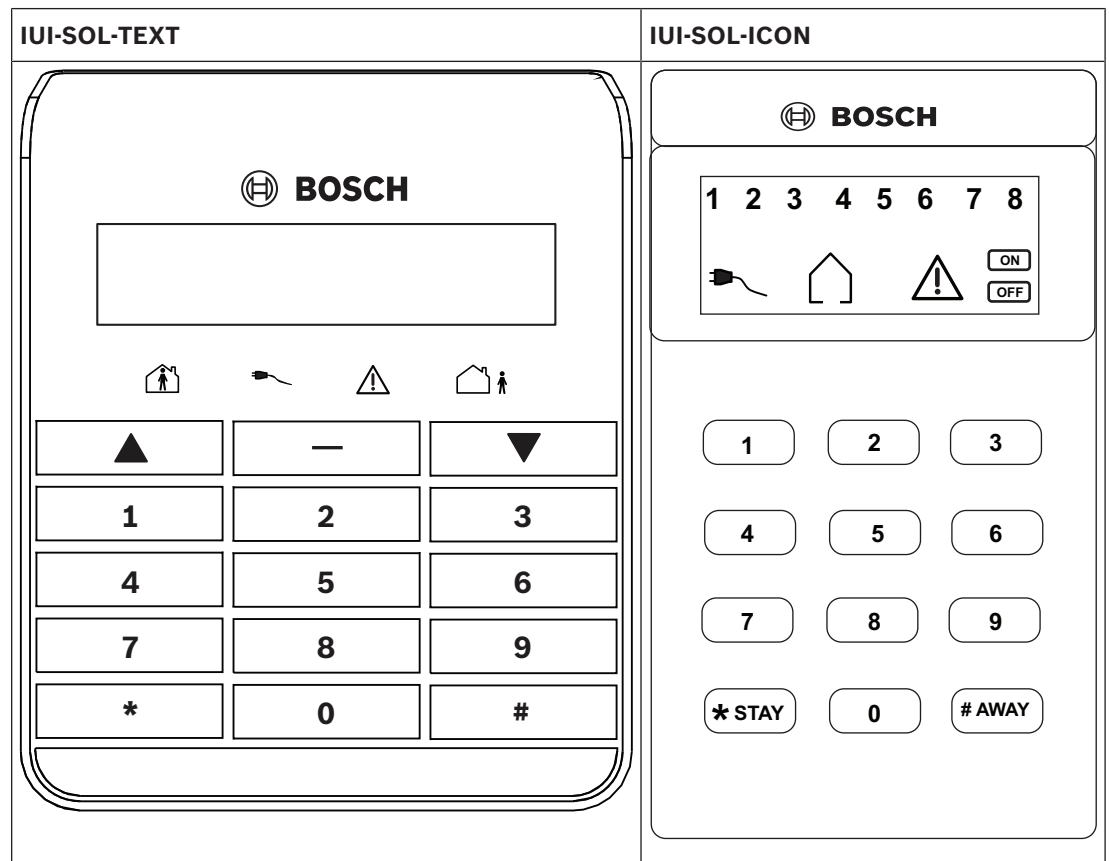
6 Accessories

This chapter introduces the accessory products that can be used in conjunction with the control panel. These products enhance certain features to make the system extremely flexible.

Some sections include basic installation instructions. For detailed installation instructions, refer to the Installation Guide that shipped with the product.

6.1 Codepads

Use alphanumeric LCD codepad (IUI-SOL-TEXT) or icon LCD codepad (IUI-SOL-ICON) for operation.



Installation

Set the address switches for the proper address, mount the mounting plate, wire to the control panel, and attach the codepad to the mounting plate.



Notice!

Do not remove the spring from the tamper switch on the IUI-SOL-ICON. Removing the spring will cause a Codepad Tamper Trouble and a report will be sent if configured to do so.

Set the address

The IUI-SOL-TEXT and IUI-SOL-ICON have 6 DIP switches that set the SDI2 Bus address for codepads 1 to 4 on the system.

DIP switches determine the address for the codepad. The control panel uses the address for communications. Use a ballpoint pen to set the switches. If multiple codepads reside on the same system, each codepad must have a unique address.

Any change to the DIP switch requires a power cycle or software reboot of the module for the new external address to be read.

DIP Switch Codepad Address	DIP Switch Number					
	1	2	3	4	5	6
1	On	Off	Off	Off	Off	On
2	Off	On	Off	Off	Off	On
3	On	On	Off	Off	Off	On
4	Off	Off	On	Off	Off	On

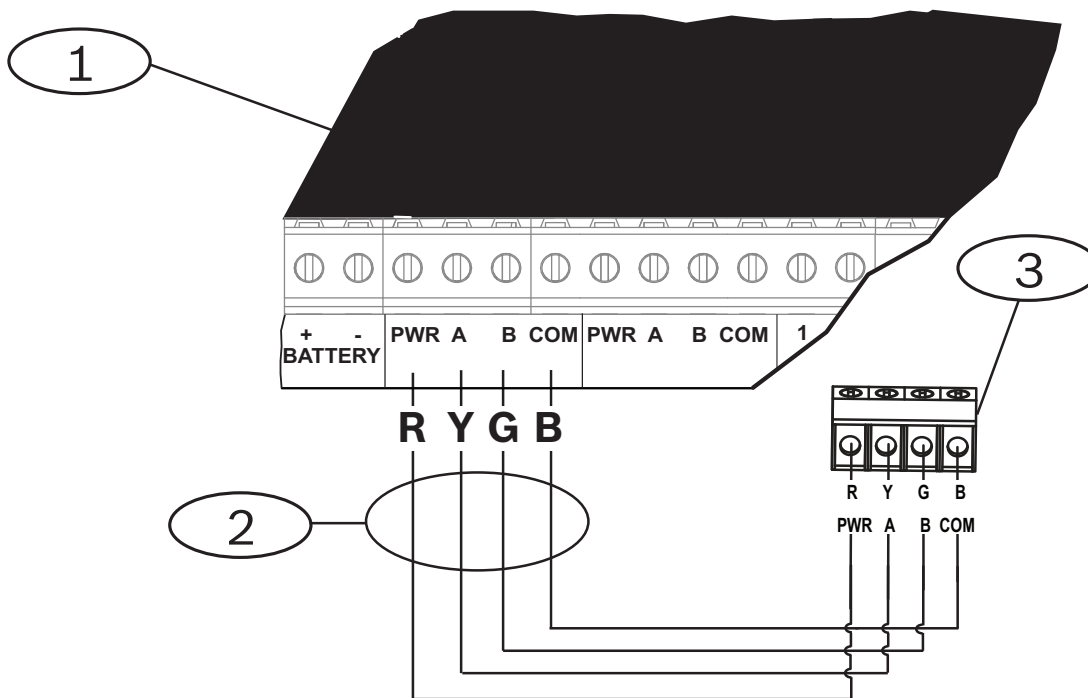
Table 6.2: Codepad DIP switch address settings

Install the module

1. Use the provided anchors and screws to mount the codepad base on the wall.
2. Pull the necessary wiring through the mounting plate.

Wire to the control panel

Wire the codepad to the control panel using the control panel terminals labeled R, Y, G, B (PWR, A, B, COM). Connect them to the codepad terminals labeled R, Y, G, B. Connect codepads to the SDI2 data bus by parallel wire run from the control panel to each codepad, wire from codepad to codepad, or a combination of the two. Use a maximum of 7500 ft (2286 m) of 22 AWG (0.8 mm) wire for all devices connected to the SDI2 bus combined.



Callout - Description
1 - Control panel

Callout - Description
2 - Terminal wiring
3 - Codepad's wiring terminal block

6.1.1

Installer Menu

Use the menu tree below to program the control panel from the IUI-SOL-TEXT codepad.

Example:

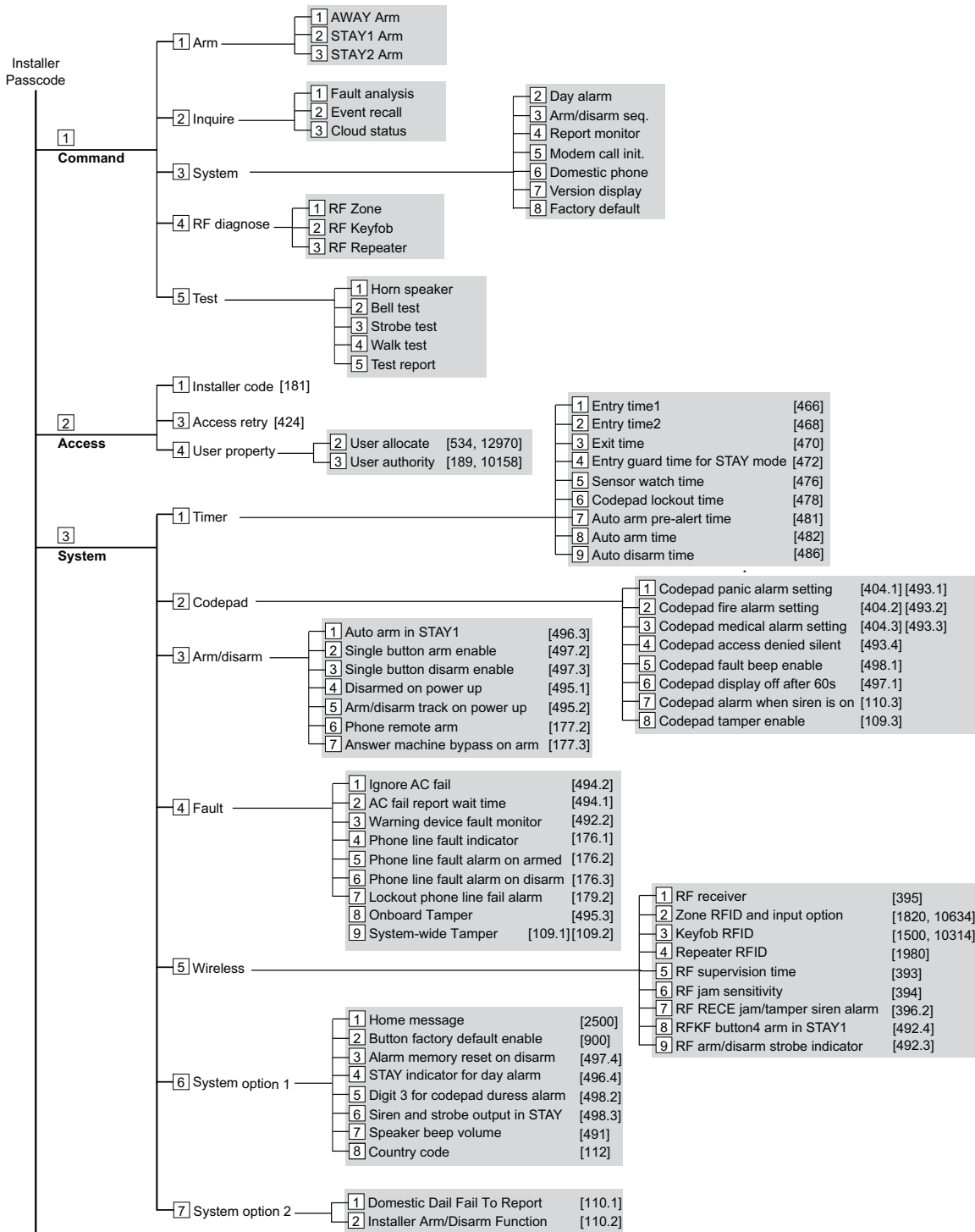
To program Exit Time using the IUI-SOL-TEXT

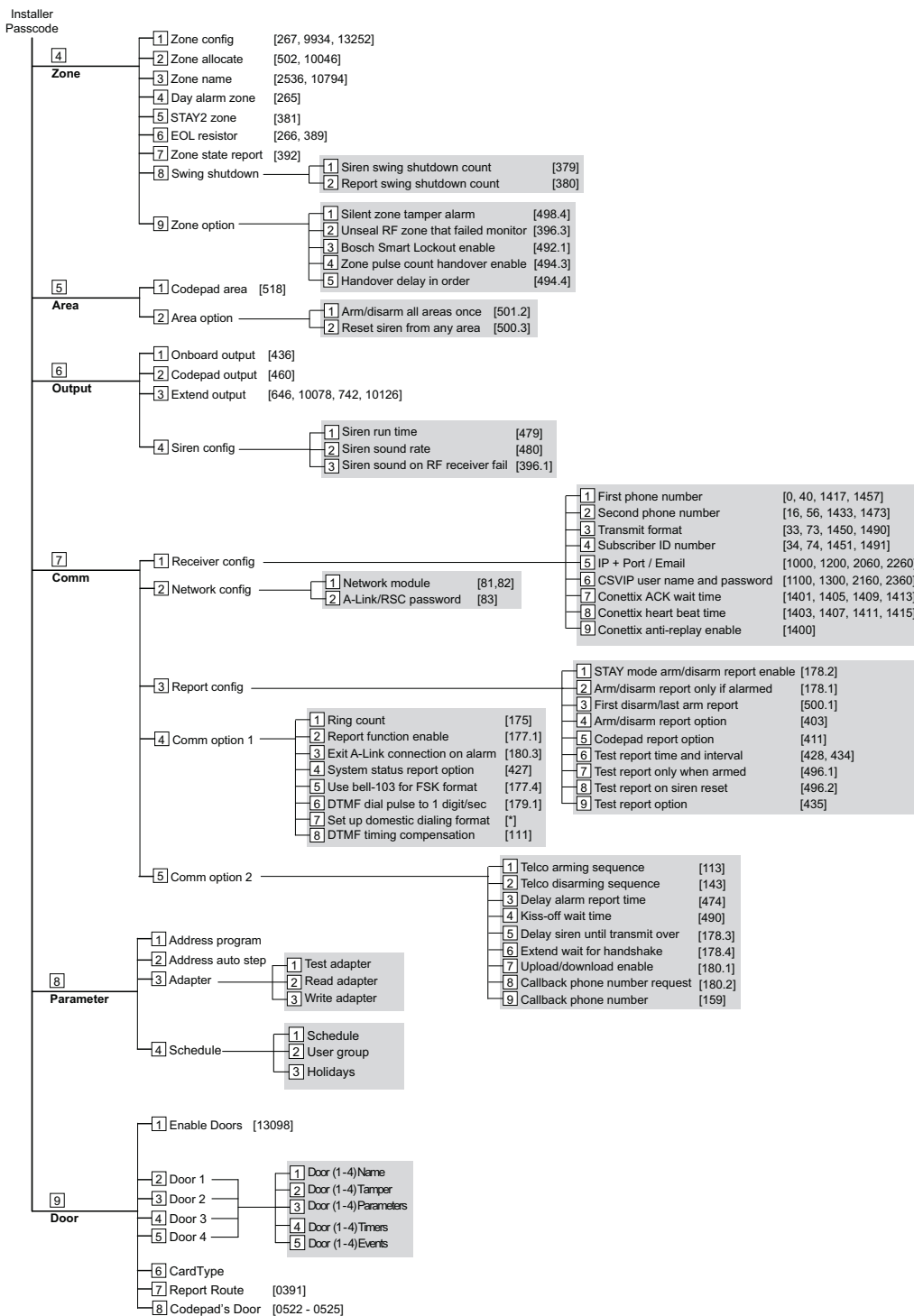
1. Enter the Installer Code, followed by [-] or [#] key (for example, [1234#]),
2. Then press keys [3], [1], [3] to enter [Exit time] and program the exit time.

If you are using the IUI-SOL-ICON codepad, you can refer the programming address indicated in brackets [] next to each command as shown in the Menu Tree.

To program Exit Time using the IUI-SOL-ICON

1. Enter the Installer Code, followed by [#] key (for example, [1234#]),
2. Press [470 #] to enter Exit Time address to program the exit time.





6.2 WE800EV2 receiver

The WE800EV2 is designed to provide a convenient ON/OFF control for the Solution x000 series control panel. Provision is also made for the control of up to two (2) external devices via on-board relays.

Install the module

1. Remove the small knockout in the Solution x000 control panel for the antenna and insert the supplied rubber grommet.

2. Install the WE800EV2 PCB in the control panel with the top of the PCB in the slot provided at the top of the case and secure with the provided screw at the bottom of the PCB.
3. Thread the antenna wire through the grommet into the “ANT” terminal.

Wire to the control panel

Connect the 3 pin plug to the jumper labeled WE800 on the control panel. Note that the connector will only install one way. If the relays are to be used, a wire will need to be connected from the +12V terminal on the WE800EV2 to a +12 terminal on the control panel.

Add/delete keyfobs



Notice!

When purchasing a WE800EV2 kit, the keyfobs supplied are already learned to the WE800EV2 with both relays set for momentary operation. If a different relay set-up is required, delete the keyfobs, then add them back again.

To add keyfobs:

1. Press the Learn/Delete switch once. Note that the LED will flash rapidly.
2. Press the button on the keyfob to be learned that corresponds to the desired relay function.
 - Button 1 - Both outputs momentary
 - Button 2 - Output 1 toggling. Output 2 momentary.
 - Button 3 - Output 2 toggling. Output 1 momentary.
 - Button 4 - Both outputs toggling
3. Repeat for additional keyfobs.
4. Press the Learn/Delete button when finished adding keyfobs to complete the process.

To delete keyfobs:

Press and hold the Learn/Delete switch. Note that the LED will light and then extinguish after 4 seconds. The EEPROM is now erased. Individual keyfob deletion is not possible.

6.3

HCT-4 keyfob

This 4 Button Premium Keyfob can be used in conjunction with the WE800EV2 RF Receiver to operate the system remotely.

It can remotely arm and disarm the system in AWAY Mode or STAY Mode 1 and can activate remote Panic Alarms. It can also operate the 2 outputs on the WE800EV2 to control garage doors, swimming pool pumps, or outside lights. These outputs can only provide a 1 second Momentary operation.

6.4

RADION receiver B810

The B810 is a wireless receiver that connects RADION wireless peripherals such as the motion detectors, keyfobs, panic buttons, repeaters, and more, to supported Bosch control panels using the SDI2 Bus connection.

For more information, refer to the installation and operation manuals for this product.

6.5 RADION keyfobs

RADION keyfob allows you to arm or disarm the security system, or send a panic alarm. The control panels support two RADION keyfob models, RFKF-FBS and RFKF-TBS, that communicate with the control panel using the RADION receiver SD. On the four-button version, two option buttons are user-defined to perform additional functions. To operate these buttons, simply press and hold either button for at least one sec in order for the desired feature to work.

Panic alarm

The keyfob sends a panic code to your monitoring company if your security system is programmed to do so. Press both the lock and unlock buttons simultaneously for more than 600 milliseconds to send a panic alarm.

LED indicator

The LED flashes to indicate a signal was sent to your security system.

6.6 RADION repeater

RADION repeater receives transmissions from RADION transmitters and re-transmits them to improve transmitted message reliability and range for compatible transmitters and its assigned compatible receiver.

For more information, refer to the installation and operation guides for this product.

6.7 RADION detectors

For more information regarding the sensors supported by the compatible control panel, refer to the installation and operation manuals for the B810 wireless receiver.

6.8 B308 Octo-output Module

The B308 Octo-output Module is a supervised device that provides 8 programmable outputs (Form C relays) and connects to control panels through the SDI2 bus. Each output provides dry contact switching rated for a maximum of 1.0 A at 24 VDC. The outputs are accessed through on-board screw terminal connections. The address switches are used to set the module's SDI2 address. Control panel programming determines each output's response to specific events. The B308 receives serial data from the control panel and activates outputs in response to control panel conditions and settings. Outputs can be programmed for remote control from a control panel codepad or computer (A-Link Plus) or smartphone application (RSC+).

Set the address

Two address switches determine the address for the B308 Octo-output Module. The control panel uses the address for communications. Use a slotted screwdriver to set the two address switches. Set the address switches per the control panel configuration.

The module's address switches provide a tens and ones value for the module's address. Set the tens switch to 0 and the ones digit 1 for module 1 ; set the tens switch to 0 and the ones digit 2 for module 2.



Notice!

The module reads the address switch setting only during power up. If you change the switches after you apply power to the module, you must cycle the power to the module in order for the new setting to be enabled.

Install the module

After you set the address switches for the proper address, install the module in the enclosure. Mount the module into the enclosure's 3-hole mounting pattern using the supplied mounting screws and mounting bracket.

**Notice!**

Remove all power (AC and battery) before making any connections. Failure to do so might result in personal injury and/or equipment damage.

Wire to the control panel

When you wire the module to a control panel, use the module's terminal strip labeled with PWR, A, B, and COM.

LED descriptions

The module includes one blue heartbeat LED to indicate that the module has power and to indicate the module's current state.

Flash pattern	Function
Flashes once every 1 second	Indicates normal operation state.
3 quick flashes every 1 second	Indicates the module is in a "no communication" state resulting in an SDI2 communication error. Module is connected but no outputs are actively programmed.
ON steady	A trouble condition is exist..
OFF steady	Module is not powered or some other trouble condition is prohibiting the module from controlling the heartbeat LED.

6.9**B426-M Conettix Ethernet Communication Modules**

The module supports Ethernet communication for remote programming and mobile apps on AMAX and Solution Series control panels.

Typical applications include:

- Reporting and path supervision to a Conettix Communications Receiver/Gateway.
- Remote administration and control with A-Link Plus or Remote Security Control Plus application for handheld devices.
- Connection to building automation and integration applications.

The module is built for a wide variety of secure commercial and industrial applications.

Flexible end-to-end path supervision, AES encryption, and anti-substitution features make the module desirable for high security and fire monitoring applications. It is capable as a stand-alone path or it can be used in conjunction with another communication technology. For Fire Monitoring applications, the module meets UL864 and NFPA72 standards for Single Communication Technology with approved Bosch control panels.

LEDs

RX/TX LEDs operate in Connettix or CSVIP event reporting.

Heartbeat or RX/ TX LEDs do not operate even when using the RSC+ App for control.

For detailed information on LEDs, refer to module quick installation guide.

6.10

B450-M Conettix Plug-in Communicator Interfaces**Notice!**

Scan the QR code with your smart phone to access the control panel app RSC+.

The module supports cellular communication for remote programming and mobile apps on AMAX and Solution Series control panels.

Use the module in combination with a plug-in communicator for primary or backup alarm communication, remote control panel programming and other remote applications. The module supports Conettix IP protocol with full authentication, 256 bit AES encryption and resistance to Denial of Service attacks. Use the B450 to add cellular network communications to existing or new commercial security and fire installations.

Switch addressing

Use the address switch to assign a bus address or setup for USB or SMS configuration where required. The address switch allows bus address selection.

Configuration

Program up to two B426-M or B450-M modules with ICON or TEXT codepad, or via A-Link Plus.

In Location 081 Module 1 or Location 082 Module 2, set value = 3 (Used, B4xx-M).

In Location 4456 Module 1 or Location 7456 Module 2, set value = 4 to enable Network Module Cloud Connection.

With a B450-M we must also set APN name for mobile network. This can only be done with via A-Link Plus.

LEDs

Three LEDs provide status and troubleshooting information about the module and its connection.

LED	Description
Heartbeat	Indicates the system status of the B450 and its connection to the control panel.
RX	Indicates when an inbound packet is received on the bus.
TX	Indicates when an outbound packet is transmitted on the bus.

Initial power up all LEDs will light up on B44x and Heartbeat RX/ TX will go on and off on B450-M and then only LEDs on B44x module would illuminate to indicate Mobile network functions.

Mounting considerations

Install in a location with acceptable wireless network signal strength. Mount the module into the interior of a compatible enclosure. Use the 3-hole mounting pattern. Use the supplied mounting screws.

Wiring considerations

The module connects to a control panel using a data bus connection via the module's terminal strip, or the module's interconnect wiring connectors.

For data bus powered installations outside the compatible control panel enclosure, follow the maximum wiring distances in the technical specifications. For further installations power from a compatible auxiliary power supply.

6.11 A-Link Plus Software

You can program or control the control panels remotely using A-Link plus Software. This software allows you to change your customer's control panel without leaving your office, which improves customer service and saves your time and money. For locations where a control panel is installed hundreds of kilometers from your office, the Upload/Download feature is invaluable.

When selecting the control panel type during the setup of a new customer database in the A-Link plus Software, make sure the control panel type is Solution x000, and the version is the latest applicable release.

When you add a new customer in the A-Link plus Software, the "Installer code" and the "A-Link Plus / RSC password" must match the values programmed in the control panel for synchronization during connection to the control panel. If this location does not match those of the control panel, the software and the control panel cannot be synchronized.

Minimum System Requirements

System Component	Minimum Requirement
Processor	Intel PIII 1.5 GHz or higher
Operating System	Microsoft Windows 10
Hard Drive Free Space	At least 4GB
Memory	At least 256 MB

For instructions on installing and using A-Link Plus, refer to the A-Link Plus User Guide.

6.12 Remote Security Control Plus

Remote Security Control Plus (RSC+) app allows users to control their security systems remotely from mobile devices such as phones and tablets.

RSC+ is an app for Android and Apple iOS devices. Refer to RSC+ Operation Manuals for more details.

6.13 Keyswitches

Connect the keyswitch to any zone programmed as keyswitch zone, refer to *Zone Types*, page 117.

Program Keyswitch Zone Options, refer to *Keyswitch Zone Options*, page 123.

When the Zone Type is programmed as keyswitch, Zone Options 1 replaces Keyswitch Zone Options. A keyswitch zone can arm/disarm or momentary arm/disarm the area in STAY Mode 1 or AWAY Mode as configured. A keyswitch zone can only arm/disarm the area it belongs to. Its zone number is reported as a user code number.

6.14 TF008 Plug Pack (TF008-B)

The TF008 plug pack is used with control panels.

The plug pack includes built-in thermal fuses that blow during overload or fault conditions to eliminate a possible fire threat due to excessive heat buildup inside the casing. The plug pack incorporates a three-wire flying lead that enables a MAINS earth connection between the equipment and the plug pack. This connection might be required for lightning protection on equipment connected to phone lines or for safety reasons such as earthing of metal enclosures.

6.14.1 Install the transformer



Caution!

Do not short-circuit the terminals of the transformer: Shorting the terminals opens the internal fuse, causing permanent failure. Connect the transformer to the 18-22 VAC terminals of the control panel before plugging it into the power source.



Notice!

Plan Ahead

Route telephone, SDI2 bus wiring, and sensor loop wiring away from any AC conductors, including the transformer wire. AC wiring can induce noise and low level voltage into adjacent wiring.

1. Use 18 AWG (1.02 mm) wire minimum (12 AWG [2 mm] maximum) and connect the transformer to the control panel. Make the wire length as short as possible. Do not exceed 50 ft (15 m).
2. Connect the wire to the control panel.
3. Connect the wire to the transformer.
4. Plug the transformer into the power outlet.

6.15 DLA

Direct link adapter IUI-SOL-ADAPTER is one of accessories that can be used in conjunction with the SDI2 Bus control panel.

DLA works with control panel via SDI2 bus cable.

- Copy the control panel memory to the DLA.
- Copy the DLA data to the control panel memory.
- Control panel firmware upgrade.

A-Link Plus allows the installer to program the panel via direct connection using the DLA onsite; remotely would be via Modem or Cloud/ TCP-IP network connection off site.

6.16 B228 Expansion module

The B228 module is an 8 zones supervised expansion device with 2 additional switched outputs. By dual EOL sensor loop wiring, up to 16 zones can be expanded through each B228 module.

Address settings

Up to 3 modules can be used with the control panel. Each module has its distinct address 01, or 02, or 03.

To set the address 01, set the TENS switch to 0, and the ONES switch to 1, or 2, or 3.



Figure 6.1: Single-digit address setting

B228 module addresses are dependent on the number of zones allowed by the control panel.

Control panel	Onboard point numbers	Valid B228 addresses	Corresponding point numbers
ICP-SOL4-P ICP-SOL4-PE	01 - 08	01 02 03	09 - 16 17 - 24 25 - 32
	01 - 08 (3K3) 09 - 16 (6K8)	02 03	17 - 24 25 - 32
	01 - 08 (3K3) 09 - 16 (6K8)	02	17 - 24 (3K3) 25 - 32 (6K8)

Refer to the module's installation documentation for more information.

6.17

B901 Door controller

The B901 Access Control Interface Module is a fully supervised, addressable SDI2 bus device that allows access control integration for the control panel.

This module supports programmable levels of access authority. Authority for access is controlled by the user authority level, the door state, and the area armed state. Control each authority restriction through automatic and manual functions.

A door that has been automatically released by the control panel will require manually reengaging to return to normal.

In a combination Fire/Intrusion system, the B901 should not be used to lock doors used for emergency unless these doors have a mechanical release mechanism.

Address settings

The control panel supports up to four B901 Access Control Modules. Each module has its distinct address 01, or 02, or 03, or 04.

To set the address 01 to 04, set the TENS switch to 0, and the ONES switch to 1, or 2, or 3, or 04.

Address	Designation
TENS address = 0 ONES address = 0	Disabled
TENS address = 0 ONES address = 1 to 4	Doors 1 through 4

Door commands

Through the codepad or A-Link plus to operate door commands:

- Cycle
- Lock
- Unlock

- Secure
- Unsecure

Refer to the module's installation documentation for more information.

6.18 B520 Auxiliary power supply module

Additional power can be obtained when using B520 Auxiliary power supply module for an auxiliary 12.0 VDC regulated, power-limited power supply.

Address settings

The B520 address switches allow for easy device addressing, and the control panel uses the address for communications.

Up to 4 modules can be connected to the control panel, and each module has its unique address.

Wiring considerations

The power supply module connects to the control panel using the SDI2 IN connections (PWR, A, B, COM). Use 12 AWG to 22 AWG (1.5 mm to 0.6 mm) wires from the power supply to the control panel.

The SDI2 Out terminals provide auxiliary power for SDI2 expansion devices, such as codepads.

The AUX PWR terminals provides added auxiliary power capabilities for additional devices such as PIR motion detectors.

B520 enable

To enable the B520 module 1 to 4, in the Location 0412 - 0415, set the value to 1 = Module enable.

Refer to the module's installation documentation for more information.

7 Configuration

7.1 Installer Commands

When working with an ICON codepad, there are nine commands in Installer's Programming Mode. To issue a command, enter the command number and press [#].

When working with an alphanumeric codepad, select the menu and issue a command after entering the Installer Menu.

Command	Description
958	Exit from Installer's Programming Mode without saving changes
959	Test IUI-SOL-ADAPTER
960	Exit from Installer's Programming Mode with saving changes and system reset
961	Reset the control panel to factory defaults
962	Copy the control panel memory to IUI-SOL-ADAPTER
963	Copy IUI-SOL-ADAPTER data to the control panel memory
965	Set up domestic dialing format
966	Enable/disable the automatic stepping of locations during programming
999	Display the control panel firmware version number

Table 7.3: Installer's Programming Commands

7.1.1 Command 958 - Exit from Installer's Programming Mode without saving changes

This command exits from Installer's Programming Mode. You can exit from Installer's Programming Mode from any location.

To exit from Installer's Programming Mode:

Enter [9 6 0 #]. The system returns to the disarmed state. When using the codepad, the STAY and AWAY indicators are extinguished.

7.1.2 Command 959 - Test IUI-SOL-ADAPTER

This command initiates a test of the direct link adapter. You can only use the IUI-SOL-ADAPTER Direct Link Adapter with the control panel.

The direct link adapter test is non-destructive, and any data in the direct link adapter remains after the test is completed. One long beep indicates that the direct link adapter test failed. Two beeps indicates a successful test.

If you remove the direct link adapter before the test is finished, the direct link adapter data becomes corrupt. Do not remove the direct link adapter while the activity LED is lit or pulsing rapidly.

To test the direct link adapter:

1. Enter the Installer Code (the default is 1234) and press [#] to enter Installer's Programming Mode. Two beeps sound and the STAY and AWAY indicators flash on the codepad to indicate you entered Installer's Programming Mode. The codepad displays the data stored in Location 000.

2. Connect the direct link adapter to the Bosch SDI2 Bus pins at the bottom of the control panel printed circuit board.
3. Enter [9 5 9 #]. Two beeps sound after a successful test of the direct link adapter. A long beep indicates that the direct link adapter data is corrupt and must be erased to clear the corrupt data.
4. Enter [9 6 0 #] to exit from Installer's Programming Mode. The STAY and AWAY indicators are extinguished on the codepad and the system returns to the disarmed remote state.
5. Remove the direct link adapter from the control panel. Failure to exit from Installer's Programming Mode before removing the direct link adapter can corrupt the data in the direct link adapter.

When working with a text codepad, go to Menu 831 [Test adapter] to test the DLA.

7.1.3 **Command 960 - Save and exit from Installer's Programming Mode**

This command saves and exits from Installer's Programming Mode. You can exit from Installer's Programming Mode from any location.

To exit from Installer's Programming Mode:

Enter [9 6 0 #]. The system returns to the disarmed state. When using the codepad, the STAY and AWAY indicators are extinguished.

7.1.4 **Command 961 - Reset the Control Panel to Factory Default Settings**

This command resets the control panel to factory default values. You can reset the control panel from any location.

To reset the control panel to factory defaults:

1. Enter the Installer Code (the default is 1234) and press [#] to enter Installer's Programming Mode. Two beeps sound and the STAY and AWAY indicators flash on the codepad to indicate that you entered Installer's Programming Mode. The codepad displays the data stored in Location 000.
2. Enter [9 6 1 #]. Two beeps sound and the system is reset to the factory default values. When working with a text codepad, go to Menu 138 [Factory default] to reset the system to factory default settings.

7.1.5 **Command 962 - Copy the Control Panel Memory to IUI-SOL-ADAPTER**

This command copies the control panel memory to the direct link adapter. You can only use the IUI-SOL-ADAPTER Direct Link Adapter with the control panel.

To copy the control panel memory to the direct link adapter:

1. Enter the Installer Code (the default is 1234) and press [#] to enter Installer's Programming Mode. Two beeps sound and the STAY and AWAY indicators flash on the codepad to indicate you entered Installer's Programming Mode. The codepad displays the data stored in Location 000.
2. Connect the direct link adapter to the Bosch SDI2 Bus pins at the bottom of the control panel printed circuit board.
3. Enter [9 6 2 #]. Two beeps sound after the control panel memory is successfully copied to the direct link adapter. A long beep indicates that the direct link adapter is corrupt and must be erased to clear the corrupt data.
4. Enter command [9 6 0 #] to exit from Installer's Programming Mode. The STAY and AWAY indicators are extinguished on the codepad to indicate the system is disarmed.

5. Remove the direct link adapter from the control panel. Failure to exit from Installer's Programming Mode before removing the direct link adapter can corrupt the direct link adapter.

When working with a text codepad, go to Menu 833 [Write adapter] to copy the control panel memory to the DLA.

7.1.6

Command 963 - Copy IUI-SOL-ADAPTER data to the Control Panel

This command copies data from the direct link adapter to the control panel. You can only use the IUI-SOL-ADAPTER Direct Link Adapter only with the control panel.

To copy the direct link adapter memory to the control panel:

1. Enter the Installer Code (the default is 1234) and press [#] to enter Installer's Programming Mode. Two beeps sound and the STAY and AWAY indicators flash on the codepad to indicate you entered Installer's Programming Mode. The codepad displays the data stored in Location 000.
2. Connect the direct link adapter to the Bosch SDI2 Bus pins at the bottom of the control panel printed circuit board.
3. Enter [9 6 3 #]. Two beeps sound after the direct link adapter's data is successfully copied to the control panel. A long beep indicates that the direct link adapter is corrupt and must be erased to clear the corrupt data.
4. Enter [9 6 0 #] to exit from Installer's Programming Mode. The STAY and AWAY indicators are extinguished on the codepad to indicate the system is disarmed.
5. Remove the direct link adapter from the control panel. Failure to exit from Installer's Programming Mode before removing the direct link adapter can corrupt the direct link adapter.

When working with a text codepad, go to Menu 832 [Read adapter] to copy the DLA data to the control panel.

7.1.7

Command 965 - Set up Domestic Dialing Format

Command 965 simplifies the setup of the domestic dialing format to a one-step operation. Refer to *Domestic Dialing*, page 93 for more information.

To set up domestic dialing format:

1. Enter the Installer Code (the default is 1234) and press [#] to enter Installer's Programming Mode. Two beeps sound and the STAY and AWAY indicators flash on the codepad to indicate you entered Installer's Programming Mode. If on a text codepad, go to menu 81 [Address Program]. The codepad displays the data Mode. The codepad displays the data stored in Location 000.
2. Enter [9 6 5 #]. The command automatically sets Receiver 1 to domestic reporting and sets other locations or Receiver 2 only (refer to the table Command 965 Defaults below). No other locations are changed when you issue command 965.
3. If on a text codepad, enter the Installer Code (the default is (1234) and press [#] to enter Installer's Programming Mode. Go to menu 747 [Set Up Domestic Dialing Format], then save and exit.

The transmission format is automatically set for domestic dialing and the Subscriber ID Number set for one identification beep. All reports, except Zone Status reporting and System Status reporting, are allocated to Receiver 1 for domestic dialing.

Zone Status Reports including Zone Bypass, Zone Trouble, Sensor Watch, and Alarm Restore codes, and System Status Reports including AUX Power Supply Fail, AC Fail, Low Battery, and Access Denied Reports are allocated to Receiver 2 and do not report unless Receiver 2 is also set up to report.

Location	Description	Default Value	Setting
033	Transmission Format	4	Domestic
034 and 039	Subscriber ID Number	0, 0, 0, 0, 0, 1	1 Beep
392	Zone Status Reporting Options	2	Receiver 2 only
403	Arm/Disarm Reporting Options	2	Receiver 2 only
424	System Status – Access Denied	6	Access Denied
427	System Status Reporting Options	2	Receiver 2 only
428 to 431, 434	Test Report Time	0, 0, 0, 0, 0	Test Reports
435	Test Reporting Options	1	Receiver 1 only

Table 7.4: Command 965 Defaults

7.1.8

Command 966 - Enable/Disable the Automatic Stepping of Locations

This command allows the automatic stepping of locations when programming in Installer's Programming Mode.

Programming with the codepad provides no visual indication that Auto Step Mode is enabled.

To enable the automatic stepping of locations:

1. Enter the Installer Code (default = 1234) and press [#] to enter Installer's Programming Mode. Two beeps sound and the STAY and AWAY indicators flash on the codepad to indicate you entered Installer's Programming Mode. The codepad displays the data stored in Location 000.
2. Enter [9 6 6 #]. Two beeps sound.

To disable the automatic stepping of locations:

Enter [9 6 6 #]. Two beeps sound.

Example (Auto Step Enabled)

To enter the Primary Telephone Number 02 (pause) 9672 1055 when auto step is enabled:

1. Press [0 #]. You are positioned at Location 000 (the Primary Telephone Number for Receiver 1).
2. Program the number by pressing: [10 * 2 * 13 * 9 * 6 * 7 * 2 * 1 * 0 * 5 * 5 * 0*]

Example (Auto Step Disabled)

To enter the Primary Telephone Number 02 (pause) 9672 1055 when auto step is disabled: Press [0 #].

You are positioned at Location 000 (the Primary Telephone Number for Receiver 1).

To program the number, press:

[10 * # 2 * # 13 * # 9 * # 6 * # 7 * # 2 * # 1 * # 0 * # 5 * # 5 * # 0*]

When working with a text codepad, go to Menu 82 [Adapter auto step] to switch automatic stepping enable/disable.

7.1.9

Command 999 - Display the Control Panel Firmware Version Number

When using the codepad, this command displays the firmware version of the control panel.

To display the control panel firmware version number:

1. Enter the Installer Code (the default is 1234) and press [#] to enter Installer's Programming Mode. If you are using the codepad, the STAY and AWAY indicators flash to indicate you entered Installer's Programming Mode.
2. Enter [9 9 9 #]. If you are using the codepad, the codepad lights a zone indicator corresponding to the first digit of the version number.
3. Press [*]. The codepad lights a zone indicator corresponding to the second digit of the version number.
4. Press [*] again to display the last digit. If the digit is 0, no zone indicator displays. (Example: version 1.1.0, in location from 999 to 997 shows as 110.)
5. Enter [9 6 0 #] to exit from Installer's Programming Mode. The system returns to the disarmed state. If you are using the codepad, the STAY and AWAY indicators are extinguished to indicate the system is disarmed.

When working with a text codepad, go to Menu 137 [Version display] to check the control panel firmware version.

7.2 Disable Factory Defaults

This feature prevents the control panel from manually restoring the default settings by the default button and prevents the use of a programming key to automatically download to the control panel when the system is disarmed.

Item	Location	Option	Default	New
Button Default Options	0900	0 = Button Factory Default Enable 15 = Button Factory Default Disabled	0	

Enter the default setting of 0 for Location 900 to restore the control panel to its default settings. Enter 15 for Location 900 to restrict the ability to restore the control panel to its default settings and to require the Installer Code for future control panel programming. If the Installer Code is unknown, you must restore the control panel to your Bosch distributor for exchange. A nominal fee applies for this service.

**Notice!**

The use of this feature is not recommended.

If you are required to disable the ability restore the control panel to its default settings, a special procedure eliminates the possibility of accidentally setting this option. You must hold down the default button on the printed circuit board (PCB) when programming this location.

To prevent manually restoring the default control panel settings:

1. Enter the Installer Code (the default is 1234) and press [#] to enter Installer's Programming Mode. Two beeps sound and the codepad displays the data programmed in Location 000. If you are using the codepad, the STAY and AWAY indicators flash to indicate you entered Installer's Programming Mode.
2. Enter [9 0 0 #] to move to Location 900.
3. Press and hold the DEFAULT button.
4. Enter [1 5 *] to program 15 into Location 900.
5. Release the DEFAULT button.

6. Enter [9 6 0 #] to exit from Installer's Programming Mode. The system returns to the disarmed state. If you are using a codepad, the STAY and AWAY indicators are extinguished to indicate that the system is disarmed.

If Location 900 is not programmed as 15, do one of the following procedures to restore the default control panel settings.

(If you do not know the Installer Code and the Button Factory Default is disabled, there is nothing that can be done to restore the defaulted control panel settings.)

To default the control panel settings using the Installer Code:

1. Enter the Installer Code (the default is 1234) and press [#] to enter Installer's Programming Mode. Two beeps sound. The STAY and AWAY indicators flash to indicate you entered Installer's Programming Mode.
2. Enter [9 6 1 #]. Two beeps sound after the default control panel settings are restored.
3. Enter [9 6 0 #]. The STAY and AWAY indicators stop flashing and the system returns to the disarmed state.

The control panel default factory settings are restored.

To restore the default control panel settings using the default button:

Make sure the Button Factory Default is enabled in Location 0900.

1. Disconnect the AC MAINS supply and the backup battery from the control panel.
2. Press and hold the DEFAULT button.
3. Reconnect the AC MAINS supply to the control panel.
4. Wait 3 to 5 sec and release the DEFAULT button.
5. Enter [2580*] to disarm the system using the default Master Code.

The control panel default factory settings are restored.



Notice!

Do not connect the DLA to control panel when restore the default control panel settings using the DEFAULT button, otherwise the control panel will start firmware upgrading.

7.3

Service mode

During configuration and programming of the system, the service mode can be used. If the system is modified during service mode, there won't be any alarms triggered.

Service mode expiry time

The service mode expiry time defines the time for how long the service mode will be active. Possible values are 0 - 999.

If 000 is entered, the service mode won't be enabled.

If 999 is entered, the service mode will stay on until it is disabled.

Service mode configuration

The service mode configurations can be set via an alphanumeric codepad or via A-Link Plus. Reports can be enabled or disabled for the service mode.

Triggering outputs can be enabled or disabled for the service mode.

The codepad buzzer can be enabled or disabled for the service mode.

How to enable the service mode on an alphanumeric codepad

1. Enter the installer code + [73] and press [#].
2. Enter the service mode expiration time in minutes. Default: 090.
3. Enable or disable the service mode report.
4. Enable or disable the service mode output.
5. Enable or disable the service mode codepad buzzer.

The system is in service mode and the triangle LED is lit.

How to disable the service mode on an alphanumeric keypad

The service mode only has to be disabled if it has been enabled before.

1. Enter the installer code + [73] and press [#].
2. The system is in normal mode and the triangle LED is off.

8 System operations

**Notice!**

Most operations in this section is operated via IUI-SOL-ICON codepad.

8.1 Arming the system in AWAY Mode

Arming the system in AWAY Mode is normally performed when you leave the premises and require that all zones are activated in a ready state to detect an intrusion.

There are two different methods to arm the system in AWAY Mode. You can always use method one. You can use method two only if Option 2 is enabled in Location 497 (refer to *Consumer Options 2, page 170*).

If you must isolate a zone (or zones) before arming the system in AWAY Mode, refer to *Isolating zones, page 43*.

**Notice!**

Single button arming in AWAY mode reports as user code number 00.

To arm the system in AWAY Mode (method one):

1. Enter your code and press [AWAY].
2. Two beeps sound, the AWAY indicator lights, and Exit Time starts.

To arm the system in AWAY Mode (method two):**Notice!**

Select Option 2 in Location 497 to enable single button arming in AWAY Mode (refer to *Consumer Options 2, page 170*).

1. Press and hold [AWAY].
2. When two beeps sound, release the button. The AWAY indicator lights and Exit Time starts.

If a zone is not sealed at the end of Exit Time, the zone is automatically isolated and its indicator is lit on the codepad. The zone becomes an active part of the system again as soon as it is resealed. For example, if a window is open when Exit Time expires, the window is not an active part of the system until it is closed. Opening the window after Exit Time expires causes an alarm.

Forced Arming

Arming the system when a zone is not sealed is known as forced arming. Refer *Zone Options 2, page 122* to enable forced arming for each zone.

If the AWAY indicator does not light and a long beep sounds when you attempt to arm the system in AWAY Mode, forced arming is not permitted. If this is the case, you seal all zones or manually isolate them before you can arm the system.

8.2 Disarming the system from AWAY Mode

When you enter the premises after the system is armed in AWAY Mode, you must disarm the system from AWAY Mode to disable detection devices that activate the sirens, strobe, and bell outputs.

If there was an alarm prior to disarming the system from AWAY Mode, a zone indicator flashes, indicating a previous alarm in that zone.

To disarm the system from AWAY Mode:

1. Enter your code and press [AWAY].
2. Two beeps sound and the AWAY indicator is extinguished.

8.3 Arming the System in STAY Mode 1

STAY Mode 1 is used when you need to arm the perimeter and unused areas of the premises to detect a would-be intruder entering the premises, while at the same time being able to move freely within an area that is automatically isolated.

Only the installer can program zones to be automatically isolated in STAY Mode 1. Refer to *Zone Options 2, page 122* for more information on setting zones to be automatically isolated in STAY Mode 1.

There are two methods to arm your system in STAY Mode 1. You can always use method one. You can use method two only if Option 2 is enabled in Location 497 (refer to *Consumer Options 2, page 170*).

If the system reports to a base station, it sends a STAY Mode 1 Arm Report (Contact ID Event Code 441).

Entry Guard Time for STAY Mode

When arming the system in STAY Mode 1, an optional entry time called Entry Guard Time for STAY Mode can be used to delay the sirens, strobe, and bell outputs if a zone that is not automatically isolated activates an alarm. Entry Guard Time for STAY Mode is the delay time used for all zones, except 24-Hour zones, when the system is armed in STAY Mode 1 or STAY Mode 2. For more information, refer to *Entry Guard Time for STAY Mode, page 161*.

If the Entry Guard Time for STAY Mode is programmed and a zone that was not automatically isolated is activated, the codepad beeps twice per sec until the Entry Guard Time for STAY Mode expires or the system is disarmed. If the alarm is not reset before Entry Guard Time for STAY Mode expires, the strobe, bell, and siren outputs are activated into alarm.



Notice!

Single button arming in STAY Mode 1 reports as User Code number 00.
Defaulted time for Entry Guard Time for STAY Mode is 00.

To arm the system in STAY Mode 1 (method one):

1. Enter your code and press [STAY].
2. Two beeps sound and the STAY indicator is lit. Exit Time starts.

The indicators for any zones that are programmed to be automatically isolated in STAY Mode 1 begin to flash until Exit Time expires. At the end of Exit Time, the zone indicators are extinguished and the codepad sounds one short beep.

To arm the system in STAY Mode 1 (method two):

1. Press and hold [STAY].
2. When two beeps sound, release the button. The STAY indicator is lit and Exit Time starts.

The indicators for any zones that are programmed to be automatically isolated in STAY Mode 1 flash until Exit Time expires. At the end of Exit Time, the zone indicators are extinguished and the codepad sounds one short beep.

If a zone is not sealed at the end of Exit Time, the zone is automatically isolated and is lit constantly on the remote codepad. The zone becomes an active part of the system again as soon as it is resealed. For example, if a window is open when Exit Time expires, the window does not become an active part of the system until it is closed. Opening the window after Exit Time expires causes an alarm.

Forced Arming

Arming the system when a zone is not sealed is known as forced arming. Refer to *Zone Options 2, page 122* to enable forced arming for each zone.

If the STAY indicator does not light and a long beep sounds when you attempt to arm the system in STAY Mode 1, forced arming is not permitted. If this is the case, you must seal all zones or manually isolate them before you can arm the system.

8.4 Disarming the system from STAY Mode 1

There are two methods to disarm the system from STAY Mode 1. You can always use the first method. You can use method two only if Option 4 is enabled in Location 497 (refer to *Consumer Options 2, page 170*).

To disarm the system from STAY Mode 1 (method one):

1. Enter your code and press [STAY].
2. Two beeps sound and the STAY indicator is extinguished. The system is now disarmed.

To disarm the system from STAY Mode 1 (method two):

A flashing zone indicator represents a previous alarm in that zone. If this is the case, a valid User Code is required to disarm the system using method one. To enable method two, Option 4 in Location 497 must be enabled.

1. Press and hold [STAY].
2. When two beeps sound, release the button. The STAY indicator is extinguished and the system is disarmed.



Notice!

Single button disarming from STAY Mode 1 reports as User Code 00.

8.5 Arming the system from STAY Mode 2

STAY Mode 2 is used when you need to arm the perimeter and unused areas of the premises to detect a would-be intruder from entering the premises, while at the same time being able to move freely within an area that is automatically isolated.

You can program zones to be automatically isolated in STAY Mode 2 using an Installer Code function (refer to *Installer Code Functions*) or a Master Code function (*Master Code Functions*).

If the system reports to a base station, it sends a STAY Mode 2 Arm Report (Contact ID Event Code 456).

Entry Guard Time for STAY Mode

When arming the system in STAY Mode 2, an optional entry time called Entry Guard Time for STAY Mode can be used to delay the sirens, strobe, and bell outputs if a zone that is not automatically isolated activates an alarm. Entry Guard Time for STAY Mode is the delay time used for all zones, except 24-Hour zones, when the system is armed in STAY Mode 1 or STAY Mode 2. For more information, refer to *Entry Guard Time for STAY Mode, page 161*.

If the Entry Guard Time for STAY Mode is programmed and a zone that was not automatically isolated is activated, the codepad beeps twice per sec until the Entry Guard Time for STAY Mode expires or the system is disarmed. If the alarm is not reset before Entry Guard Time for STAY Mode expires, the strobe, bell, and siren outputs are activated into alarm.

**Notice!**

Single button arming from STAY Mode 2 reports as User Code 00.
Defaulted time for Entry Guard Time for STAY Mode is 00.

To arm the system in STAY Mode 2:

1. Press and hold [0].
2. When two beeps sound, release the button. The STAY indicator is lit and the Exit Time starts.

The indicators for any zones that are programmed to be automatically isolated in STAY Mode 2 flash until the Exit Time expires. At the end of Exit Time, the zone indicators are extinguished and the codepad sounds one short beep.

If a zone is not sealed at the end of Exit Time, the zone is automatically isolated and is lit constantly on the remote codepad. The zone becomes an active part of the system again as soon as it is resealed. For example, if a window is open when Exit Time expires, the window does not become an active part of the system until it is closed. Opening the window after Exit Time expires causes an alarm.

Forced Arming

Arming the system when a zone is not sealed is known as forced arming. Refer to *Zone Options 2, page 122* to enable forced arming for each zone.

If the STAY indicator does not light and a long beep sounds when attempting to arm the system, forced arming is not permitted. If this is the case, you must seal all zones or manually isolate them before you can arm the system.

8.6

Disarming the system from STAY Mode 2

There are two methods to disarm the system from STAY Mode 2. You can always use the first method. You can use method two only if Option 4 is enabled in Location 497 (refer to *Consumer Options 2, page 170*).

To disarm the system from STAY Mode 2 (method one):

1. Enter your code and press [STAY].
2. Two beeps sound and the STAY indicator is extinguished. The system is now disarmed.

To disarm the system from STAY Mode 2 (method two):

A flashing zone indicator represents a previous alarm in that zone. If this is the case, a valid User Code is required to disarm the system using method one. To enable method two, Option 4 in Location 497 must be enabled.

1. Press and hold [0].
2. When two beeps sound, release the button. The STAY indicator is extinguished and the system is disarmed.

**Notice!**

Single button disarming from STAY Mode 2 reports as User Code 00.

8.7 Codepad duress alarm

A codepad Duress Alarm is used as a silent holdup alarm when 9 is added to the end of a valid User Code being used to disarm the system.

A Duress Alarm (Contact ID Event Code 121) is useful only if your system reports to a monitoring station because domestic reporting format cannot decipher the type of alarm that occurred.

A Duress can only be triggered at the codepad, not via an RF keyfob.

You can select Option 2 in Location 498 to use 3 instead of 9 to activate a Duress Alarm (refer to *Consumer Options 3*, page 170).

8.8 Codepad panic alarm

An audible codepad Panic Alarm activates when a user presses and release (or hold-down) either [1] and [3] or [STAY] and [AWAY] simultaneously.

If needed, select Option 1 in Location 493 to program the codepad Panic Alarm as silent (refer to *System Options 2*, page 166).

A codepad Panic Alarm transmits Contact ID Event Code 120 if the system reports to a base station receiver. An RF Keyfob triggers a PANIC E120 which means a different type of event.

8.9 Codepad fire alarm

An audible codepad Fire Alarm activates when a user presses and release (or hold-down) [4] and [6] on the remote codepad simultaneously. A distinct fire sound emits through the horn speaker to indicate this type of alarm. The fire sound is different than the burglary sound.

If needed, select Option 2 in Location 493 to program the codepad Fire Alarm as silent (refer to *System Options 2*, page 166). A codepad Fire Alarm transmits a Contact ID Event Code 110 to a base station receiver.

8.10 Codepad medical alarm

An audible codepad Medical Alarm activates when a user presses and release (or hold-down) [7] and [9] simultaneously.

If needed, select Option 4 in Location 493 to program codepad Medical Alarm as silent (refer to *System Options 2*, page 166). A codepad Medical Alarm transmits a Contact ID Event Code 100 to a base station receiver.

8.11 Isolating zones

Isolating zones allows you to manually disable one or more zones before arming the system in AWAY Mode, STAY Mode 1, or STAY Mode 2. When a zone is isolated, access is allowed into that zone when the system is armed without activating an alarm.

For example, you might want to isolate a zone before arming the system because a zone passive infrared (PIR) detector is activating false alarms or because you need to leave a pet inside a particular zone while you are away.

You can isolate zones using one of two methods. By default, the standard isolation method is used. Standard isolation does not require a User Code. The other method requires a valid User Code. The ability to isolate zones is determined by the priority level assigned to each User Code holder. Some User Code holders cannot isolate zones. Refer to User Code Priority for more information.

Zones that are manually isolated using this method transmit a Zone Bypass Report (Contact ID Event Code 573) for each isolated zone when the system is armed. A Zone Bypass Restore Report is transmitted when the system is disarmed.

When you select a 24-Hour Fire Zone to be isolated, a Contact ID Event Code 571 is sent. If you select another 24-Hour Zone to be isolated, a Contact ID Event Code 572 is sent. A Zone Bypass Report is transmitted once the 24-Hour Zone is isolated. A Zone Bypass Restore Report is transmitted when the system is disarmed or the isolated zone is restored.

You can isolate zones manually using these two methods, and you can also isolate zones automatically as programmed by the installer.

How to isolate zones automatically in STAY Mode 1, refer to *Zone Options 2, page 122*.

How to isolate zones automatically in STAY Mode 2, refer to *STAY Mode 2 Automatically Bypass Zones*.

8.11.1

Standard isolating

Standard isolating allows any operator to isolate zones because no code is required.

1. Press [STAY] twice. Three beeps sound and the STAY indicator flashes.
2. Enter the number of the zone to be isolated and press [STAY]. The indicator for the zone flashes. 24-Hour zones are automatically isolated as soon as you press [STAY]. All other Burglary Zones are automatically isolated only after the system is armed.
3. Repeat *Step2* for each zone you want to isolate.



Notice!

As each zone is selected to be isolated, the corresponding zone indicator flashes. If you make a mistake, enter the incorrect zone number and press [STAY]. This zone is no longer selected to be isolated and the zone indicator is extinguished.

4. Press [AWAY].

Two beeps sound and the system returns to the disarmed state.

The indicators for the selected zones continue to flash until the next time the system is disarmed.

Example:

To manually isolate zones 1, 3, and 4, press: [STAY][STAY][1][STAY][3][STAY][4][STAY][AWAY]

8.11.2

Code to isolate

The code to isolate method permits only those User Code holders with a priority level that includes Code to Isolate. When the code to isolate authority is assigned to any Users Authority level, the standard isolation is disabled for all users in the system.

1. Press [STAY].
2. Enter your code and press [STAY]. Three beeps sound and the STAY indicator flashes. If you attempt to enter isolating mode with a User Code that is not set for Code to Isolate, the system ignores the attempt.
3. Enter the number of the zone to be isolated and press [STAY]. The indicator for the zone flashes. 24-Hour zones are automatically isolated as soon you press [STAY]. All other Burglary zones are automatically isolated only after the system is armed.
4. Repeat *Step3* for each zone you want to isolate.



Notice!

As each zone is selected to be isolated, the corresponding zone indicator flashes. If you make a mistake, enter the incorrect zone number and press [STAY]. This zone is no longer selected to be isolated and the zone indicator is extinguished.

5. Press [AWAY].
Two beeps sound and the system returns to the disarmed state.
The indicators for the selected zones continue to flash until the next time the system is disarmed.

Example

To manually isolate zones 1, 3, and 4, press: [STAY][User Code][STAY][1][STAY][3][STAY][4] [STAY][AWAY]

8.12 Fault analysis mode

When a system fault occurs, the FAULT or MAINS indicator flashes and the codepad beeps once per minute.

If the AC MAINS supply fails, the MAINS indicator flashes until the AC MAINS supply is restored. Press [AWAY] once to acknowledge the fault and stop the codepad from beeping once every minute.

To enter Fault Analysis Mode to determine a system fault other than the AC MAINS supply:

1. Press and hold [5] until two beeps sound. The FAULT indicator remains lit and the STAY and AWAY indicators flash. The lit zone indicators indicate the type of fault that occurred.
2. If necessary, press the button corresponding to the indicator to further determine the fault. (Refer to the table Fault Analysis Conditions below.)
3. To exit from Fault Analysis Mode, press [AWAY]. The STAY and AWAY indicators are extinguished and the FAULT indicator remains lit.

Fault Indicators

Zone Indicator	Fault Description	Press Button	Zone Indicator	Fault Condition
1	System Fault	1	1 2 3 4 5 7 8 9 to 16	Battery Fail Date and Time RF Receiver Fail Output 1 to 3 Fail Telephone Line Fail Power Supply Fail Onboard Tamper RF Repeaters 1 to 8 Fail
2	RF Low Battery	2	1 to 16	Zones 1 to 16 RF Low Battery
3	Zone Tamper Alarm	3	1 to 16	Zones 1 to 16 Tamper Alarm
4	Sensor Watch Fault	4	1 to 16	Zones 1 to 16 Sensor Watch Fail
5	RF Sensor Missing	5	1 to 16	Zones 1 to 16 RF Sensor Missing
6	Communication Fail	6	1	Receiver 1 Fail

Zone Indicator	Fault Description	Press Button	Zone Indicator	Fault Condition
			2 3 4 5 6	Receiver 2 Fail Receiver 3 Fail Receiver 4 Fail IP Module 1 Fail IP Module 2 Fail
7	Input / Output and Codepad Fail	7	1 to 3 5 to 8 9 to 11	Output Expanders 1 to 3 Fail Codepads 1 to 4 Fail Input Modules 1 to 3 Fail
8	Keyfob Low Battery	8	1 to 16	Keyfobs 1 to 16 Low Battery
9	Door and Power Supply Module Fail	9	1 to 4 5 to 8	Power Module 1 to 4 Fail Door 1 to 4 Fail

Table 8.5: Fault Indicators

When working with a text codepad, press [5] to enter [Fault Analysis], you can page up or page down to view the fault items, and press [AWAY] to exit from Fault Analysis Mode.

8.13

Fault descriptions

1 - System Fault

The system FAULT indicator lights when any of the faults listed in the table System FAULT Indicators below occurs. In Fault Analysis Mode, press [1] to determine the fault that occurred.

2 - RF Device Low Battery

This fault occurs when any of the RF wireless devices report a low battery condition to the control panel. While in Fault Analysis Mode, press the [2] key until two beeps sound. This displays the zone reporting the RF Low Battery fault.

3 - Zone Tamper Fail

This fault occurs when any zone with tamper becomes an open or short circuit. Press the [3] key until two beeps sound. This displays the zone reporting the tamper fail fault.

4 - Sensor Watch Fault

A sensor watch fault registers when one or more detection devices failed to detect any movement during the disarmed state for the time programmed in Locations 476 and 477 (refer to *Sensor Watch Report, page 138*). The fault clears once the zone in question detects movement and resets. Press the [4] key until two beeps sound. This displays the zone reporting the sensor watch fault.

5 - RF Sensor Missing

An RF sensor missing registers when one or more RF detection devices fails to communicate to the RF radio receiver for the time period programmed in Location 393 RF Supervision Time. The fault clears once the RF device in question successfully transmits to the RF radio receiver.

While in Fault Analysis Mode, press the [5] key. This displays the RF detection device reporting the RF sensor watch fault.

6 - Communication Fail

A communication fail registers when the control panel fails to communicate with the receiving party (such as a monitoring company, mobile phone). The communication fault clears once the control panel successfully reports to the receiving party.

A communication fail also registers when network module is disconnected or tampered.

To determine which receiver or module failed to communicate, press the [6] key.

In Fault Analysis Mode, press [6] to show which communication fault occurred: 1 - Receiver 1; 2 - Receiver 2.

7 Input / Output Modules and Codepad Fail

The output fault registers when the output expander B308 is disconnected or tampered.

The codepad fault registers when any codepad is tampered or disconnected from the control panel.

The input fault registers when the input module B228 is disconnected or tampered.

To determine which fault occurred, press the [7] key.

8 - Keyfob Low Battery

This fault occurs when any of the RF keyfobs report a low battery condition to the control panel. To determine which keyfob failed, press the [8] key. Only keyfob 1 to 16 faults display on the codepad through zone indicator 1 to 16.

9 Door and Power Supply Module Fail

The power supply module fault registers when the B520 power supply module is disconnected or tampered, or the power supply module battery 1 or 2 is disconnected.

The door fault registers when the B901 door controller is disconnected.

To determine which fault occurred, press the [9] key.

System FAULT indicators

Indicator	FAULT description
1	Low battery This fault registers when the system detects a low capacity backup battery. The system automatically performs a battery test every 4 hours and every time you arm the system.
2	Date and time This fault registers when the system is powered down.
3	RF receiver fault This fault registers when the RF wireless receiver unit detects RF jamming, the RF wireless receiver is disconnected from the control panel or failed, or the RF receiver's cover tamper switch is activated.
4	Warning Device fault This fault registers when the system detects output 1-3 as warning device (Horn Speaker, Siren Running, Strobe) is disconnected or short. This fault clears once all outputs are reconnected. This feature is enabled by selecting Option 2 in Location 492 (refer to <i>System Options 1</i> , page 165).
5	Telephone line fault This fault registers when the system detects the telephone line is disconnected from the control panel. This feature is enabled by selecting Option 1 in Location 176.

Indicator	FAULT description
7	Power Supply fail This fault occurs when AUX power supplies fail, +12V power fails, or SDI2 Bus power fails. Contact your installer as soon as this fault displays.
8	Onboard Tamper This fault occurs when the system detects the control panel is tampered.
9-16	RF Repeater Tamper/Fail The RF repeater 1 to 8 fault registers once the system detects that the wireless repeater is disconnected or the repeater tamper is triggered.

AC MAINS Failure

An AC MAINS supply failure automatically flashes the MAINS indicator. If the AC MAINS supply is disconnected continuously for longer than 2 min, the remote codepad beeps the codepad buzzer once per min. If the control panel is programmed to report an AC MAINS failure to a base station receiver, an AC Fail Report (Contact ID Event Code 301) is transmitted.

The MAINS indicator stops flashing when the AC MAINS supply is reconnected. When the AC MAINS supply is connected continuously for 2 min, the codepad stops the once per min beep and an AC Fail Restore Report is transmitted to the base station receiver.

If the Enable AC Fail in 1 Hour option (1) is selected in Location 494 (refer to *System Options 3, page 167*), the codepad flashes the MAINS indicator when the AC MAINS supply is disconnected, but does not activate the report or the codepad buzzer unless the AC MAINS supply is disconnected continuously for 1 hour.

If the Ignore AC MAINS Fail option (2) is selected in Location 494 (refer to *System Options 3, page 167*) the codepad does not indicate when the AC MAINS supply fails, but the control panel still reports an AC Fail Report, if enabled.

8.14 Inquire cloud status

You can inquire cloud status with the alphanumeric codepad IUI-SOL-TEXT.

When the control panel is connected to the cloud module B4xx-M, go to menu 721 Network Module to select B4xx-M and set it to enable.

Inquire the cloud status to check connection status to the cloud service and to view the module UID.

How to view the cloud status and UID

1. Enter your Installer Code or User Code, followed by [#].
2. Press [1][2][3], the cloud status is shown.
3. Press [#], the UID is shown.
4. Press [-] to exit.

You can also inquire cloud status with the ICON codepad.

1. Enter the Installer Code or Master Code, followed by [1][2][3] and the [#] key.
2. Cloud status displays on codepad indicator LED1 or LED2 corresponding to communicator 1 or 2.
 - Steady on - cloud online
 - Flash - cloud offline
3. Press the [#] key to exit.

9 System functions



Notice!

Most operations in this section is operated via IUI-SOL-ICON codepad.

9.1 Installer code functions

Installer Code functions allow the installer to perform various system tests and tasks without knowing a Master Code.

To access the required Installer Code function, enter the Installer Code and corresponding function digit, and press [AWAY]. The Installer Code functions are listed in the table Installer Code Functions below. You can access these functions only when the system is disarmed.

Installer Code Functions

Function	Description
0	Add/delete RF wireless devices
0	Add/delete RF repeaters / keyfobs (ICON codepad only)
1	Set the number of days until the first Test Report
2	Change domestic telephone numbers
3	Change the Telco arm/disarm sequence
4	Set bypass zones for STAY Mode 2
6	Turn report monitor mode on and off
7	Walk test mode
8	Event memory recall mode
9	AWAY arm/disarm

9.1.1 Add or Delete RF Wireless Devices

The control panel can accept up to 32 wireless devices on the system. It is possible to enroll wireless PIRs, reed switches, and smoke detectors to the control panel. This control panel supports the following RF sensors:

- RFDW-SM
- RFDW-RM
- RFUN
- RFPR-12
- RFPR-C12
- RFDL-11
- RFGB
- RFBT
- RFSM

You can allocate only one wireless device to each zone.

To program an RF wireless device:

1. Use the installer code to configure the RF receiver as RADION receiver (address = 395). Save the changes and Exit programming mode.
2. Enter the Installer Code and press [0][AWAY]. Two beeps sound and the STAY and AWAY indicators flash.
3. Enter the RF device number (1 to 32)you want to change and press [AWAY]. Two beeps sound and the corresponding codepad indicator lights to show the RF device number you selected.
4. There are two ways to enter the RFID:
 - Enter the nine-digit RFID number found on the back of the RF device and press [AWAY]. Two beeps sound. The control panel will sound one error beep and exit if the wrong check-sum or a duplicated RFID number is entered.
 - Press [AWAY] to switch into auto-learn mode. Note that all the codepad indicators (1~16) flash on the icon codepad. Trigger the wireless device. The control panel will sound 3 beeps and learn the RFID. The last digit of the RFID number is displayed on the codepad. Press [AWAY] to confirm. If the zone has already been used in the system, the panel will ignore this RFID.
5. Press [AWAY] to accept the default value for the zone input option, or enter a different zone input option value (0~15) and press [AWAY] to finish this function and reset the control panel.
6. The user can press [STAY] to cancel the wireless zone enrollment at any step except during the delete process. The codepad sounds one error beep, cancels the enrollment, and exits.

Example:

To add RF wireless device number 3 whose 9- digit ID number is 000094946, enter [1 2 3 4 0][AWAY][3][AWAY] [0 0 0 0 9 4 9 4 6][AWAY][AWAY].

To delete an RF wireless device:

1. Enter the Installer Code and press [0][AWAY]. Two beeps sound and the STAY and AWAY indicators flash.
2. Enter the RF device number (1 to 32) you want to delete and press [AWAY]. Two beeps sound and the corresponding codepad indicators light to show the RF device number you selected.
3. Press [STAY] to delete the RF device. The STAY and AWAY indicators are extinguished.
4. Repeat steps 1 to 3 to delete another RF wireless device.

9.1.2**Add/Delete RF Repeater****Notice!**

Set RF receiver as RADION Receiver B810.

Add RF Repeater

1. Enter the Installer Code, followed by [0] and the [#] key (for example, [12340#]).
2. Enter the point ID of RADION Repeater (822 to 829) you want to add (822 = 1,823 = 2, etc.), followed by the [#] key. Repeater number (1 to 8) displays on the ICON codepad.
3. Use manual mode or auto mode to configure Repeater RFID.
 - In manual mode, enter the 9-digit RF Repeater ID number, followed by the [#] key.

- Or press [#] key to switch into auto mode. When the corresponding icon number flashes, tamper the RF Repeater. The panel learns the RF Repeater ID number and the last digit of RFID number displays on the codepad. Press [#] key to confirm.
4. Enter [#] key to confirm the operation, or enter [*] to cancel.

Delete RF Repeater

1. Enter the Installer Code, followed by [0] and the [#] key.
2. Enter the point ID of RADION Repeater (822 to 829) you want to delete, followed by the [#] key.
3. Press the [*] key to delete the RF Repeater.

Example:

To delete existing RF Repeater 8: Enter your installer code and press [0] [#] [8] [2] [9] [#] [*].

9.1.3

Add/Delete RF Keyfob

Add Keyfob on WE800EV2



Notice!

Learn all keyfobs via WE800EV2 receiver Learn/Delete button before adding the keyfobs to the system. Refer WE800EV2 manual for learn/delete fobs.



Notice!

Set RF receiver as WE800EV2 Receiver (Value 2 in Location 395).

1. Enter the Installer Code, followed by [0] and the [#] key (for example, [12340#]).
2. Enter the keyfob number (301 to 321) you want to add (301 = keyfob 1, 302 = keyfob2, etc.), followed by the [#] key. Up to 21 keyfobs can be added, but only current keyfob number (1 to 16) displays through zone indicators on the ICON codepad.
3. The user number will display on the codepad. Press [#] to continue.
4. When the corresponding icon number flashes, press button 1 or 2 of the keyfob. The panel learns the Keyfob ID number and the last digit of RFID number displays on the codepad. Press [#] key to confirm.
5. Enter [#] key to confirm the operation, or press [*] to cancel.

Add Keyfob on RADION B810



Notice!

Set RF receiver as RADION Receiver B810 (Value 1 in Location 395).

1. Enter the Installer Code, followed by [0] and the [#] key (for example, [12340#]).
2. Enter the keyfob number (301 to 364) you want to add (301 = keyfob 1, 302 = keyfob2, etc.), followed by the [#] key. Up to 64 keyfobs can be added, but only current keyfob number (1 to 16) displays through zone indicators on the ICON codepad.
3. Use manual mode or auto mode to configure keyfob RFID.
 - In manual mode, enter the 9-digit RF device ID number, followed by the [#] key.

- Or press [#] key to switch into auto mode. When the corresponding icon number flashes, press button 1 or 2 of the keyfob. The panel learns the Keyfob ID number and the last digit of RFID number displays on the codepad. Press [#] key to confirm.
4. Enter [#] key to confirm the operation, or press [*] to cancel.

Delete Keyfob

1. Enter the Installer Code, followed by [0] and the [#] key.
2. Enter the keyfob number (301 to 364) you want to delete, followed by the [#] key.
3. Press the [*] key to delete the keyfob.

Example:

To delete existing keyfob 1: Enter your Installer Code and press [1] [#] [3] [0] [1] [#] [*].

9.1.4

Set the Number of Days until the First Test Report

This function determines when the system sends the first Test Report (Contact ID Event Code 602). If you do not use this Installer Code function, the first Test Report is sent to the base station receiver after the repeat interval programmed in Location 434 (refer to *Test Reporting Time*, page 136). If you want the system to send the first Test Report sooner than the repeat interval, use this function to set when the first Test Report is sent.

To set the first Test Report:

1. Enter the Installer Code and press [1][AWAY]. Three beeps sound and the STAY and AWAY indicators flash.
2. Enter the number of days (1 to 15) and press [AWAY]. Two beeps sound and the STAY and AWAY indicators are extinguished. The system returns to the disarmed state.

9.1.5

Change Domestic Phone Numbers

When the system is set up for domestic dialing, this function allows the installer to view and program the telephone numbers the system calls if an alarm occurs. Refer to *Domestic Dialing*, page 93 for more information.

To change domestic phone numbers:

1. Enter the passcode and press [2][AWAY]. Three beeps sound and the STAY and AWAY indicators flash. There are 8 telephone number locations. Numbers 1 and 2 are for receiver 1. Numbers 3 and 4 are for receiver 2. Numbers 5 and 6 are for receiver 3. Numbers 7 and 8 are for receiver 4.
2. Press the sequence number to view and set/modify the corresponding telephone number. For example, Telephone Number 1 is [1] [#], Telephone Number 2 is [2] [#], etc.
 - If telephone numbers are programmed, they are displayed one digit at a time using the remote codepad indicators. Refer to the table Domestic Dialing Digits below for the indicators and their meanings.
 - If no telephone numbers are programmed, [15] is displayed and an additional two beeps sound after entering this mode. These two beeps normally sound after you enter the last digit of the last phone number.
3. Enter the digits for the phone number, for example, [96721777]. Each digit is displayed as you enter it.
4. Press the [AWAY] to save and exit from this mode.
5. Repeat steps 1 - 4 to program another phone number.

Digit Required	Number to Program	Digit Required	Number to Program
0	0	8	8
1	1	9	9
2	2		
3	3	*	* 1
4	4	#	* 2
5	5	4-sec Pause	* 3
6	6		
7	7	Terminator	* 5

Table 9.6: Domestic Dialing Telephone Digits

Example:

To program telephone numbers (96721777-primary and 96721233-backup) for receiver 1, enter the following sequence:

[1234 2][AWAY][1][AWAY][9 6 7 2 1 7 7 7][AWAY][2 5 8 0 2][AWAY][2][AWAY] [4 9 6 7 21 2 3 3][AWAY]

You can cancel domestic dialing at any time (for example, you are moving and do not want the system to continue calling your work place or mobile phone).

To disable domestic dialing:

Enter your Master Code and press [2][AWAY] [1][STAY][5][AWAY]. Once the primary number is disabled, the secondary number will be unavailable also.

9.1.6

Change Telco Arm/Disarm Sequence

This feature allows you to program the telco arm sequence and telco disarm sequence. This feature is available only if your telecommunication provider has the call forward option available. Refer to *Telco Arming Sequence, page 87* and *Telco Disarming Sequence, page 88* for more information.

Telco Arm Sequence

This allows you to program the Call Forward – Immediate On sequence or Call Forward – No Answer sequence that automatically operates when you arm the system in the AWAY Mode.



Notice!

The examples provided for this feature apply only to Australia.

– **Call Forward – Immediate On**

You can redirect calls to anywhere in Australia, including mobiles and answering services. When this Call Forward option is turned on, the telephone to which the control panel is connected does not ring.

– **Call Forward – No Answer**

If your telephone is not answered within 20 sec, this feature redirects the incoming call to another number anywhere in Australia. You can still make outgoing calls.

Telco Disarming Sequence

This option allows you to automatically disable the call forward sequence when you disarm the system.

Digit Required	Number to Program	Digit Required	Number to Program
0	0	8	8
1	1	9	9
2	2		
3	3	*	* 1
4	4	#	* 2
5	5	4-sec Pause	* 3
6	6		
7	7	Terminator	* 5

Table 9.7: Dialing Digits

To program the telco arming sequence:

1. Enter your passcode and press [3][AWAY]. Three beeps sound and the STAY and AWAY indicators flash.
2. Press [1][AWAY] to change the telco arming sequence. Three beeps sound.
 - If a call forward sequence is already programmed, the sequence is displayed one digit at a time using the codepad indicators. Refer to the table Telco Arm/Disarm Digits above for the indicators and their meanings.
 - If no call forward sequence is programmed, an additional two beeps sound after entering this mode. These two beeps normally sound after the last digit of the call forward sequence is displayed.
3. Enter the desired call forward sequence. For example, program [* 6 1][phone number] [#] for the call forward – no answer sequence, or [* 2 1][phone number][#] for the call forward – immediate sequence.



Notice!

When you program a * in the telco arm sequence, enter [STAY][1]. When you program the # in the telco arm sequence, enter [STAY][2].

4. Press [STAY][2][AWAY]. Two beeps sound and the system returns to the disarmed state.

Example

If you want to automatically divert all unanswered incoming calls to another telephone number (for example, 9672 1777) when the system is armed in AWAY Mode, enter:

[1234 3][AWAY][1][AWAY][STAY]

[1 6 1 9 6 7 2 1 7 7 7][STAY][2][AWAY]

You can suspend the telco arming sequence at any time. **To disable the telco arming sequence:**

Enter your passcode and press [3][AWAY][1] [AWAY][STAY][5][AWAY].

To program the telco disarming sequence:

1. Enter your passcode and press [3][AWAY]. Three beeps sound and the STAY and AWAY indicators flash.
2. Press [2][AWAY] to change the telco disarming sequence. Three beeps sound. If a telco disarming sequence is already programmed, the sequence is displayed one digit at a time using the codepad indicators. Refer to the Telco Arm/Disarm Dialing Digits table above for the indicators and their meanings. If no telco disarming sequence is programmed, an additional two beeps sound after entering this mode. These two beeps normally sound after the last digit of the sequence is displayed.
3. Enter the desired call forward disable sequence. For example, program [# 6 1 #] to disable the call forward – no answer sequence, or [# 2 1 #] to disable the call forward – immediate sequence.
4. Press [AWAY]. Two beeps sound and the system returns to the disarmed state.

You can suspend the telco disarming sequence at any time. **To disable the telco disarming sequence:**

Enter your Installer Code and press [3][AWAY][2] [AWAY][STAY][5][AWAY].

9.1.7**Setting STAY Mode 2 Bypass Zones**

This function allows the installer to select the zones that are automatically isolated when the system is armed in STAY Mode 2.

To arm the system in STAY Mode 2, press and hold [0] until two beeps sound. Refer to *Arming the system from STAY Mode 2, page 41* for more information.

To set STAY Mode 2 zones:

1. Enter the passcode and press [4][AWAY]. Three beeps sound and the STAY indicator flashes.
2. Enter the number of the zone you want to automatically isolate and press [STAY]. The corresponding zone indicator flashes.
3. Repeat step 2 for each zone you want to select.

**Notice!**

As each zone is selected to be isolated, the corresponding zone indicator flashes. If you make a mistake, enter the incorrect zone number and press [STAY]. This zone is no longer selected to be isolated and the zone indicator is extinguished.

This function does not work on a partitioned control panel system.

4. Press [AWAY]. Two beeps sound and the system returns to the disarmed state. The indicators for the zones you selected and the STAY indicator are extinguished.

Example

If you want to select zones 2, 5, and 6, enter:

[1 2 3 4][AWAY][2][STAY][5][STAY][6][STAY] [AWAY]

You can disable selected zones to be automatically isolated for STAY Mode 2 at any time.

To disable STAY Mode 2 zones:

Enter your passcode and press [4][AWAY] [AWAY].

9.1.8**Turning Report Monitor Mode On and Off**

Report Monitor Mode allows you to use the codepad for visual representation of data transmissions between the control panel and the base station receiver. The transmission sequence is also shown in this mode.

The codepad beeps once every two sec when Report Monitor Mode is active, whether the system is in Installer's Programming Mode or normal operating mode. The first five indicators on the ICON codepad show the progressive steps during a transmission to the base station receiver for Receiver 1 and 3, Indicator 9-13 for Receiver 2 and 4. After you activate Report Monitor Mode, hold down [9] until two beeps sound to initiate a Test Report.

Report Monitor Mode Indications

Zone indicator	Dialing event
1, 9	Telephone line seized
2, 10	Dialing phone number / Network connect
3, 11	Handshake received
4, 12	Data is being transmitted
5, 13	Kiss-off received
None	Telephone line / Network released / idle

Zone Indicator 1-5 for Receiver 1 and 3, Zone Indicator 9-13 for Receiver 2 and 4.

To turn Report Monitor Mode on:

1. Enter the Installer Code and press [6][AWAY]. Three beeps sound.
2. Zone indicators turn on to indicate report events for receiver 1 and 2.
3. Press [AWAY] to shift the zone indicators to indicating report events for receiver 3 and 4. Press [STAY] to switch back to receiver 1 and 2.
4. Press and hold [9] until two beeps sound. A Test Report is sent.

To turn Report Monitor Mode off:

Enter the Installer Code and press [6][AWAY]. Two beeps sound.



Notice!

You must exit from Report Monitor Mode to resume normal operations.

9.1.9

Walk Test Mode

Walk Test Mode allows you to test detection devices to ensure they are functioning correctly. Before activating Walk Test Mode, isolate any zones that are not required for testing. Refer to *Isolating zones*, page 43 for more information.

To enter Walk Test Mode:

1. Enter the passcode and press [7][AWAY]. Three beeps sound and the STAY and AWAY indicators flash. The codepad beeps once per sec when Walk Test Mode is active.
2. Unseal and seal the zones to be tested. The codepad sounds one long beep and the horn speaker sounds one short beep each time a zone is sealed or unsealed.
3. Press [AWAY] to exit from this function. Two beeps sound and the STAY and AWAY indicators are extinguished. The system returns to the disarmed state.

9.1.10 Event Memory Recall Mode

This function allows you to play back the last 256 system events that occurred. Event Memory Recall Mode reports all alarms and each arming or disarming of the system, on Text LCD Codepad, it can also help with troubleshooting system faults. The events are displayed using the codepad indicators.

To enter Event Memory Recall Mode:






Enter the Installer Code and press [8][AWAY]. Three beeps sound. The events are played back by the codepad indicators in reverse chronological order.

Example

If the events occurred in the following order:

Sequence	Event
1	System armed in AWAY Mode
2	Alarm in Zone 3
3	Alarm in Zone 4
4	System disarmed
5	System armed in STAY Mode

The alarm memory plays back in this order:

Sequence	Indicator On	Event
1	 2 ,	Stay armed by User 2
2	1 , 	Disarmed by User 1
3	4 , 	Alarm in Zone 4
4	3 , 	Alarm in Zone 3
5	2 , 	AWAY armed by User 2

Each event is indicated by a beep every 2 second and a lit indicator. You can also press [STAY] key to review the previous event.

After the last event, three beeps sound to indicate the end of playback. You can stop the replay at any time by pressing [AWAY].

When working with a text codepad, the events are played back automatically after entered event memory recall mode. And you can also page up or page down manually to review the events. You can stop the replay at any time by pressing [AWAY].

**Notice!**

If the system is armed in STAY Mode 1 or STAY Mode 2, the STAY indicator shows the event memory playback. There is no differentiation between STAY Mode 1 and STAY Mode 2. If the control panel is powered down, the memory of all events is saved.

9.1.11**AWAY/STAY 1 Arm/Disarm**

This function allows you to arm/disarm the system in AWAY mode or in STAY 1 mode with the installer code.

**Notice!**

Make sure to enable Installer Arm/Disarm Function in Location 110.2 (Installer menu [3][7][2]).

To arm the system in AWAY mode:

1. Enter the Installer Code and press [9][AWAY].
2. Two beeps sound, the AWAY indicator lights, and Exit Time starts.

To disarm the system from AWAY Mode:

1. Enter the Installer Code and press [9][AWAY].
2. Two beeps sound and the AWAY indicator is extinguished.

To arm the system in STAY Mode 1:

1. Enter the Installer Code and press [9][STAY].
2. Two beeps sound and the STAY indicator is lit. Exit Time starts.

To disarm the system from STAY Mode 1:

1. Enter the Installer Code and press [9][STAY].
2. Two beeps sound and the STAY indicator is extinguished. The system is now disarmed.

9.2**Master code functions**

Master Code functions allow those users that have the appropriate priority level to perform certain supervisory level functions. You can use these functions only when the system is disarmed.

**Notice!**

The default Master Code (User Code 1) is 2580. Refer to User Code Priority for more information.

To access a Master Code function, enter the Master Code and press the corresponding function digit and the [AWAY] button.

Function	Description
0	Arm or disarm both areas at the same time
1	Add, change and delete user codes / remote radio user codes (RF keyfobs) Add and delete user credentials
2	Change domestic phone numbers
3	Change Telco arm/disarm sequence
4	Set bypass zones for STAY Mode 2

Function	Description
5	Turn outputs on and off
6	Set the date and time
7	Walk test mode
8	Event memory recall mode
9989	System reset
941	Reset network module 1
942	Reset network module 2
90	Cycle door (only via assigned codepad)
91	<ol style="list-style-type: none"> 1. Cycle door 2. Lock door 3. Unlock door 4. Secure door 5. Unsecure door

Table 9.8: Master Code Functions

9.2.1

Arm or Disarm both Areas at the Same Time

This Master Code function only operates with partitioned control panel systems and allows Master Codes allocated to both Area 1 and Area 2 to arm or disarm both areas at the same time.

This feature allows a Master Code holder to arm or disarm the system by pressing one extra button rather than entering a code twice. You can use any area codepad by a User Code assigned to both areas with this function. To enable this feature, select Option 2 in Location 501 (refer to *Partitioning Options 2*, page 172).

To arm or disarm both areas at the same time:

Enter your Master Code and press [0][AWAY]. Two beeps sound and both areas are armed or disarmed from AWAY Mode.

9.2.2

Arm or Disarm Single Area

This Master Code function allows to arm or disarm single area with any codepad.

How to arm Area 1 or Area 2 in AWAY Mode

Enter your user code followed by [0][1] and the [#] button (for example, [258001#]) to arm Area 1; or enter your user code followed by [0][2] and the [#] button (for example, [258002#]) to arm Area 2. Two beeps sound and the AWAY indicator displays. Exit Time starts counting.

How to disarm Area 1 or Area 2 in AWAY Mode

Enter your user code followed by [0][1] and the [#] button (for example, [258001#]) to disarm Area 1; or enter your user code followed by [0][2] and the [#] button (for example, [258002#]) to disarm Area 2. Two beeps sound and the AWAY indicator extinguishes.

How to arm Area 1 or Area 2 in STAY Mode 1

Enter your user code followed by [0][1] and the [*] button (for example, [258001*]) to arm Area 1; or enter your user code followed by [0][2] and the [*] button (for example, [258002*]) to arm Area 2. Two beeps sound and the STAY indicator displays. Exit Time starts counting.

How to disarm Area 1 or Area 2 in STAY Mode 1

Enter your user code followed by [0][1] and the [*] button (for example, [258001*]) to disarm Area 1; or enter your user code followed by [0][2] and the [*] button (for example, [258002*]) to disarm Area 2. Two beeps sound and the STAY indicator extinguishes.

9.2.3**Changing and Deleting User Codes**

This function allows a Master Code holder to change or delete a User Code.

When using a partitioned Control Panel, the Master Code holder cannot add, change, or delete User Codes unless the User Code is allocated to the same area as the Master Code. Refer to User Code Priority for more information.

**Notice!**

On the ICON codepad, only code 1 - 16 can be displayed through zone indicators.

To change a User Code:

1. Enter your Master Code and press [1][AWAY]. Three beeps sound and the STAY and AWAY indicators flash.
2. Enter the number of the code (1 to 64) you want to change and press [AWAY]. Two beeps sound and the corresponding zone indicator lights.
3. Enter the new code and press [AWAY]. Two beeps sound and the STAY and AWAY indicators are extinguished.
4. Repeat this procedure to change other User Codes.

**Notice!**

One long beep indicates that the code already exists or you entered an incorrect user number.

Example

To program User Code number 2 as 4627, enter: [2 5 8 0 1][AWAY][2][AWAY][4 6 2 7][AWAY]

To delete a User Code:

1. Enter your Master Code and press [1][AWAY]. Three beeps sound and the STAY and AWAY indicators flash.
2. Enter the number of the code (1 to 64) you want to delete and press [AWAY]. Two beeps sound and the corresponding zone indicator lights.
3. Press [STAY] to delete the User Code. Two beeps sound and the STAY and AWAY indicators are extinguished.
4. Repeat this procedure to delete other User Codes.

Example

To delete User Code number 3, enter: [2 5 8 0 1][AWAY][3][AWAY][STAY]

9.2.4**Adding Remote Radio User Codes**

This function allows a Master Code holder to add a remote radio User Code (RF keyfob).

To Add a Keyfob on WE800EV2

Set RF receiver as WE800EV2 Receiver. Confirm that the keyfob has been added to the WE800EV2 receiver. Refer to *WE800EV2 receiver, page 23 - Add/delete keyfobs*.

1. Enter your Master Code, followed by [1] and the [#] button (for example, [25801#]).
2. Enter the keyfob number (301 to 321) you want to add, followed by the [#] button. Up to 21 keyfobs can be added, but only current keyfob number (1 to 16) displays through zone indicators on the ICON codepad.
3. Only use auto-learn mode to configure keyfob RFID. Press [*] button to switch into auto-learn mode. When icon numbers (1 to 16) flash, press button 1 or 2 of the keyfob. The control panel learns the keyfob ID number and the last digit of RFID number displays on the codepad. Press [#] button to confirm.
4. Enter [#] button to confirm the operation, or press [*] to cancel.

To Add a keyfob on RADION B810

Set RF receiver as RADION Receiver.

1. Enter your Master Code, followed by [1] and the [#] button (for example, [25801#]).
2. Enter the keyfob number (301 to 364) you want to add, followed by the [#] button. Up to 64 keyfobs can be added, but only current keyfob number (1 to 16) displays through zone indicators on the ICON codepad.
3. Use manual mode or auto-learn mode to configure the keyfob RFID.
 - In manual mode, enter the 9-digit RF device ID number followed by [#], or press [*] to switch into auto-learn mode. When icon numbers (1 to 16) flash, press the 1 or 2 button on the keyfob. The control panel learns the keyfob ID number and the last digit of RFID number displays on the codepad. Press [#] to confirm.
4. Press [#] to confirm the operation, or press [*] to cancel.

9.2.5 Deleting User/Radio Codes

Only the Master Code holder can delete other system user codes.

To Delete a User Code

1. Enter your Master Code, followed by [1] and the [#] button (for example, [25801#]). Three beeps sound and the STAY and AWAY indicators flash.
2. Enter the user code number (1 to 64), followed by the [#] button (for example, [2#] = User 2, [16#] = User 16). Two beeps sound and the selected user number displays on the codepad indicators.
3. Press the [*] button to delete the selected User Code. Two beeps are heard and the STAY and AWAY indicators turn off.
4. To delete other User Codes, repeat this procedure as many times as required.

To Delete a Keyfob

1. Enter your Master Code, followed by [1] and the [#] button.
2. Enter the keyfob number (301 to 321) on WE800EV2 or keyfob number (301 to 364) on RADION B810 you want to delete, followed by the [#] button.
3. Press the [*] button to delete the Keyfob.

9.2.6 Adding or Deleting User Credentials

Only the Master Code holder can add or delete user credentials. Up to 64 user credentials can be added for door control functions: cycle, (un)lock, and (un)secure.

How to Add a User Credential



Notice!

To add a user credential (card), make sure to operate with the codepad(s) that is assigned to corresponding door as programmed in the parameter Codepad Assigned Door.



Notice!

Make sure to use the cards of the same card type as configured. Defaulted card type is 26 bit.

1. Enter your Master Code, followed by [1] and the [#] button (for example, [25801#]).
2. Enter the user credential number (601 to 664) you want to add, followed by the [#] button. Up to 64 credentials can be added, but only current credential number (1 to 16) displays through zone indicators on the ICON codepad.
3. Tap the card on the corresponding door reader. Two beeps are heard and the STAY and AWAY indicators turn off.

How to Delete a User Credential

1. Enter your Master Code, followed by [1] and the [#] button (for example, [25801#]). Three beeps sound and the STAY and AWAY indicators flash.
2. Enter the user credential number (601 to 664) you want to delete, followed by the [#] button (for example, [602#] = User credential 2). Two beeps sound and the selected user credential number displays. Note: only credential number (1 to 16) displays through zone indicators.
3. Press the [*] button to delete the selected User Credential. Two beeps are heard and the STAY and AWAY indicators turn off.

9.2.7 Change Domestic Phone Numbers

Refer to

- *Change Domestic Phone Numbers, page 52*

9.2.8 Change Telco Arm/Disarm Sequence

Refer to

- *Change Telco Arm/Disarm Sequence, page 53*

9.2.9 Setting STAY Mode 2 Bypass Zone

Refer to

- *Setting STAY Mode 2 Bypass Zones, page 55*

9.2.10 Turning Outputs On and Off

If an output is programmed for remote operation, you can turn the remote output on or off using this Master Code function or remotely using the A-Link Software or smartphone application (RSC+).

To use this Master Code function, you must program one or more of the outputs with these Output Event Types, refer to *Output Event Types, page 148*.

Remote control output 1 = Output Event Type 2,8

Remote control output 2 = Output Event Type 2,9

Remote control output 3 = Output Event Type 2,10

Remote control output 4 = Output Event Type 6,2

Remote control output 5 = Output Event Type 6,3

.....

Remote control output 34 = Output Event Type 8,0

Note:

Output set for RADIO CONTROL Event Type 2 11 or 2 12 cannot be controlled by RSC+.

These can only be controlled via the RF Keyfob on RADION.

To turn an output on from the codepad:

1. Enter your Master Code and press [5][AWAY]. Three beeps sound and the STAY and AWAY indicators flash.
2. Enter the number of the output (1 to 34) and press [AWAY]. Three beeps sound and the output turns on.
3. Repeat *Step2* to turn on another output.
4. Press [AWAY] to exit from this function. Two beeps sound and the STAY and AWAY indicators are extinguished.

Example

If Output 2 is programmed as 2,9,1,0,0,0 in Locations 442 to 447, the Master Code holder can turn on this output by entering:

[2 5 8 0 5][AWAY][2][AWAY][AWAY]

To turn an output off from the remote codepad:

1. Enter your Master Code and press [5][AWAY]. Three beeps sound and the STAY and AWAY indicators flash.
2. Enter the number of the output (1 to 34) and press [STAY]. Two beeps sound and the output turns off.
3. Repeat *Step2* to turn off another output.
4. Press [AWAY] button to exit from this function. Two beeps sound and the STAY and AWAY indicators are extinguished.

Example

If Output 2 is programmed as 2,9,1,0,0,0 in Locations 442 to 447, the Master Code holder can turn off this output by entering:

[2 5 8 0 5][AWAY][2][STAY][AWAY]

9.2.11

Setting the Date and Time

Use this function when the date and time must be changed or if the system was powered down.

If the date and time is not set, the date and time fault appears when you enter Fault Analysis Mode by holding down [5].

To set the new date and time:

1. Enter your Master Code and press [6][AWAY]. Three beeps sound and the STAY and AWAY indicators flash.
2. Enter the day, month, year, hour, and minute in DD, MM, YY, HH, MM format (where DD is the day of the month, MM is the month of the year, YY is the year, HH is the hour of the day, and MM is the minute of the day) and press [AWAY].

Use 24:00 hour format when programming the hour of the day. Two beeps sound and the STAY and AWAY indicators are extinguished. If a long beep sounds, an error occurred when you entered the date and time.

Example

To set the date and time for 1st January 2014 at 10:30 PM, enter:
[2 5 8 0 6][AWAY][0 1 0 1 1 4 2 2 3 0][AWAY]

9.2.12 Walk Test Mode

Refer to

- *Walk Test Mode, page 56*

9.2.13 Event Memory Recall Mode

Refer to

- *Event Memory Recall Mode, page 57*

9.2.14 System reset

Use this Master Code Function to reset the system manually.

To reset the system:

Enter your Master Code and press [9][9][8][9][AWAY]. Three beeps sound and the system is reset.

If the control panel powers up after it is powered down, the system resets automatically.

9.2.15 Reset network modules

Use Master Code Function to reset the network module 1 or 2.

To reset the network module:

- Enter your Master Code, followed by the [9][4][1] and [#] keys to reset the network module 1.
- Enter your Master Code, followed by the [9][4][2] and [#] keys to reset the network module 2.

Three beeps sound indicates that the module resetting is operated remotely from the codepad.

9.2.16 Cycle door

To operate the cycle door command, use the codepad(s) that is assigned to corresponding door.

For example:

- door 1 is assigned to codepad 1
- door 2 is assigned to codepad 2 and 3

To cycle the door 1, use this Master Code Function to cycle the door only from codepad 1:

1. Enter your Master code, followed by the [9][0] and [#] keys.

Two beeps sound indicates that the door 1 is cycled remotely from codepad 1.

To cycle the door 2, you can use codepad 2 or codepad 3, but not codepad 1.

1. Enter your Master code, followed by the [9][0] and [#] keys.

Two beeps sound indicates that the door 2 is cycled remotely from the codepad 2 or codepad 3.

Users with Arm/Disarm priority level also can operate the cycle door command.

Refer to

- *User Code Priority, page 107*

9.2.17 Door operations

Door commands allows users to use the door functions for doors in areas within the scope of the codepad and included in the user's authority level.

1. Enter your Master code, followed by the [9][1] and [#] keys. Two beeps sound and zone indicator 1- 4 flash.
2. Enter the door number 1, or 2, or 3, or 4 to select the door. Two beeps sound, and zone indicator 1 - 5 flash.
3. Enter 1, or 2, or 3, or 4, or 5 to select one of the below door functions.
 - 1 - cycle door
 - 2 - lock door
 - 3 - unlock door
 - 4 - secure door
 - 5 - unsecure door

Two beeps sound indicates that the selected door is controlled remotely from the codepad.

9.3 User code functions

9.3.1 Arm or Disarm both Areas at the Same Time

This User Code function operates only with partitioned systems and allows User Codes allocated to both Area 1 and Area 2 to arm or disarm both areas at the same time.

This feature allows a user assigned to both areas to arm or disarm the system by pressing one extra button on a partitioned codepad rather than entering a code on each partitioned codepad. To enable this feature, select Option 2 in Location 501 (refer to *Partitioning Options 2*, page 172).

To arm or disarm both areas at the same time:

Enter your User Code and press [0][AWAY]. Two beeps sound and both areas are armed or disarmed from AWAY Mode.

You can also arm/disarm both areas from a common codepad (assigned to both areas) with a common user code (assigned to both areas).

9.3.2 Arm or Disarm Single Area

Refer to

- *Arm or Disarm Single Area*, page 59

9.4 Hold-down functions

9.4.1 Arm the System in AWAY Mode

Holding down [#] until two beeps sound arms the system in AWAY Mode. This hold-down function operates only if you select Option 2 in Location 497 (refer to *Consumer Options 2*, page 170).

9.4.2 Arm the System in STAY Mode 1

Holding down [*] until two beeps sound arms the system in STAY Mode 1. This hold-down function operates only if you select Option 2 in Location 497 (refer to *Consumer Options 2*, page 170).

If there was no alarm during the armed cycle, holding down [*] a sec time disarms the system from STAY Mode 1. To enable single button disarming from STAY Mode 1 using this hold-down function, select Option 4 in Location 497.

If an alarm occurred or entry warning was activated, a valid User Code is required to disarm the system.

Refer to *Zone Options 2, page 122* for information on programming each zone to be automatically isolated in STAY Mode 1.

9.4.3 Arm the System in STAY Mode 2

Holding down [0] until two beeps sound arms the system in STAY Mode 2. This hold-down function operates only if you select Option 2 in Location 497 (refer to *Consumer Options 2, page 170*).

If no sound alarm occurred during the armed cycle, holding down [0] a sec time disarms the system from STAY Mode 2. To enable single button disarming from STAY Mode 2 using this hold-down function, select Option 4 in Location 497.

If an alarm occurred or entry warning was activated, a valid User Code is required to disarm the system.

For more information, refer to *Setting STAY Mode 2 Bypass Zones, page 55*.



Notice!

STAY Mode 2 does not work on a partitioned control panel system.

9.4.4 Horn Speaker Test

Holding down [1] until two beeps sound activates the horn speaker for a 2-sec burst. No other sounding device operates during this mode.

9.4.5 Bell Test

Holding down [2] until two beeps sound activates the internal screamers for a 2-sec burst. No other sounding device operates during this mode.

9.4.6 Strobe Test

Holding down [3] operates the strobe. No other device operates during this mode.

To turn the strobe test on:

Press and hold [3] until three beeps sound. The strobe flashes.

To turn the strobe test off:

Press and hold [3] until two beeps sound. The strobe stops flashing.

9.4.7 Turning Day Alarm On and Off

Holding down [4] turns Day Alarm on or off. If you want the STAY indicator to indicate the status of Day Alarm operation (enabled or disabled), select Option 8 in Location 496 (refer to *Consumer Options 1, page 169*). When this option is selected, the STAY indicator flashes once every 3 sec when Day Alarm is active.

To turn Day Alarm on:

Press and hold [4] until three beeps sound.

To turn Day Alarm off:

Press and hold [4] until two beeps sound.

9.4.8 Fault Analysis Mode

Several system faults can be detected by the control panel. When any of these faults are present, the FAULT indicator flashes and the codepad beeps once per minute. Refer to Fault descriptions for more information.

To determine the type of fault:

Press and hold [5] until two beeps sound.

The STAY and AWAY indicators flash. One or more zone indicators (1 to 16) light to indicate the type of fault that occurred.

To exit from Fault Analysis Mode:

Press [AWAY].

The STAY and AWAY indicators are extinguished and the system returns to the disarmed state.

9.4.9 Initiate a Modem Call

Holding down [6] until two beeps sound forces the control panel to dial the callback telephone number programmed in Locations 159 to 174 in an attempt to connect to the installer's remote computer.

The remote computer must be running the A-Link Software and must be set to Waiting for an Incoming Call. If no callback telephone number is programmed, holding down [6] has no effect.

Refer to

- *Call Back Telephone Number, page 88*

9.4.10 Reset Latching Outputs

Holding down [7] until two beeps sound resets any output that is programmed to remain on after it is activated. The output must be programmed with a latching polarity.

Refer to

- *Output Polarity, page 155*

9.4.11 Change the Codepad Buzzer Tone

Holding down [8] continuously changes the tone of the buzzer in the remote codepad. There are 50 different tones from 1500 Hz to 5000 Hz. In an installation with multiple codepads, you can set a different tone for each codepad.

To change the buzzer tone:

1. Press and hold [8] continuously. The tone of the buzzer increases in pitch.
2. Release [8] button when you hear the desired tone.



Notice!

Every time the system is powered down, you must reset each codepad to its individual tone using this function.

On partitioned control panels, this hold-down function also indicates the area to which the codepad belongs.

To determine the area to which the codepad belongs:

1. Press and hold [8] until two beeps sound. A zone indicator lights to show the area to which the codepad belongs.

- Zone 1 = Area 1 codepad
 - Zone 2 = Area 2 codepad
 - Zone1,2 = Common Codepad for both Area1 and Area2
 - If no zone indicator lights, the codepad is set up incorrectly or an incorrect codepad is used.
2. Press [AWAY] to exit from this mode.

9.4.12

Send Test Report

Holding down [9] until two beeps sound transmits a Test Report (Contact ID Event Code 602) to test the reporting capabilities of the system without activating the sirens.

10 RF Keyfob Operations

The control panel can be remotely operated using RF keyfobs (hand-held remote radio transmitters).

You can use either a 2-button RFKF-TBS keyfob or a 4-button HCT-4 or RFKF-FBS keyfob to operate the system.

The 2-button and 4-button keyfobs can remotely arm and disarm the system in AWAY Mode or STAY Mode 1, and can activate remote Panic Alarms. The 4-button keyfob has the added ability to operate the control panel's programmable outputs to activate a garage door or outside lights, for example.

Before a keyfob can operate the control panel, you must teach the keyfob's radio code to the control panel. Refer to *Adding Remote Radio User Codes*, page 60 and *Deleting User/Radio Codes*, page 61 for more information.

When using a partitioned control panel, you must allocate the remote radio User Codes to one or more areas. Refer to *User code area assignments*, page 175 for more information.

10.1 Indications from RF Keyfob Operations

When using the 2-button or 4-button keyfob to operate the system, audible or visual indications, or both, can be provided by the horn speakers or the strobe. These indications allow you to operate the system from outside the premises with confidence.

The installer can program audible and visual indication beeps by selecting Options 4 and 8 in Location 492 (refer to *System Options 1*, page 165). You can adjust the speaker beep volume in Location 491 (refer to *Speaker Beep Volume*, page 164).

Horn Speaker Beeps are active by default.

Strobe Flash is not active by default and must be activated if required.

No of Beeps	System Status
One	System disarmed
Two	System armed in AWAY Mode
One two-tone beep	System armed in STAY Mode 1

Table 10.9: Horn Speaker Indication Beeps for Remote Operations

Strobe Duration	System Status
3 sec	System disarmed
6 sec	System armed in AWAY Mode
6 sec	System armed in STAY Mode 1

Table 10.10: Strobe Indication for Remote Operations

10.2 Remote Radio User Code Priority Levels

You can program the keyfobs to operate any of User Codes 1 to 64. You can assign priority levels to each keyfob, allowing the keyfob to arm the system only, or to arm and disarm the system, for example. Refer to *User Code Priority* for more information.

Before a keyfob can operate the control panel, you must teach the keyfob's radio code to the control panel.

11 Remote Arming by Telephone

This feature allows you to arm your system from any remote location by telephone. For obvious security reasons, you cannot disarm the system using this method. A touch-tone telephone is required to use this feature.

To remotely arm your system by telephone:

1. Call the telephone number to which your control panel is connected. When the control panel answers the incoming call, a short jingle sounds.
 - If you hear modem tones (a high tone and a low tone) when the control panel answers the incoming call, the system is programmed for remote arming by telephone. Wait for a pause in the tones and follow *Step 2* to arm the system remotely.
2. Press [*] on the touch-tone telephone to arm the system. Two beeps sound to indicate that the system is armed in AWAY Mode.
3. Hang up the telephone. The system remains armed.

If the control panel does not answer the call, the ring count might be set to 0. If the control panel answers the call without modem tones, remote arming by telephone might not be enabled. To enable remote arming by telephone, select Option 2 in Location 177 (refer to *Communication Options 1, page 90*). To set the number of rings before the control panel answers, refer to *Ring Count, page 88*.



Notice!

Using this method with a partitioned control panel arms both areas in AWAY Mode. Arming individual areas is not available with this method.

12 A-Link Plus Application

The remote connect feature of A-Link Plus allows you to establish a connection through the modem, network or direct connection from your computer to control panels.

Once the connection to the control panels is established, you can select special functions to operate, such as diagnose zone status, operate the doors.

12.1 Modem Connection

12.1.1 Remote Connection with Customer Control

Configure the control panel so that a remote connection can be established only when the client initiates it through the codepad.

1. Program the Call Back Telephone Number in Locations 159 to 174, refer to *Call Back Telephone Number*, page 88.
2. Disable Option 1 in Location 180, refer to *A-Link Plus Options*, page 92. The control panel is set so the client controls when a remote connection is established.
3. Program Ring Count in Location 175 as 1 – 13, refer to *Ring Count*, page 88.

To dial the remote computer:

Press and hold [6] until two beeps sound on the codepad.

12.1.2 Remote Connection without Callback Verification

Remote connect without callback verification is useful if you must perform Upload/Download functions from multiple locations.



Notice!

Reduced security

Using the modem connection without callback verification feature reduces the security of the control panel.

There are two methods to disable callback verification.

Method One

Method one allows you to call the control panel from any remote location without the control panel calling back to the computer to establish a link. When using this method, the customer cannot initiate a modem call by holding down [6].

To program method one:

1. Program Locations 159 to 174 for the Call Back Telephone Number to 15.
2. Select Option 1 and disable Option 2 in Location 180.
3. Program Ring Count in Location 175 as 1 – 13.

The control panel allows a connection of the first call without calling the remote computer back.

Method Two

Method two allows you to program a callback telephone number so that the customer can still initiate a modem call when required. When you call the control panel from a remote location using the computer, the control panel does not call back the remote computer to establish a link.

To program method two:

1. Program the Call Back Telephone Number in Locations 159 to 174.
2. Select Option 1 and disable Option 2 in Location 180.
3. Program Ring Count in Location 175 as 1 – 13.

The control panel allows a connection of the first call without calling back the remote computer to make contact. It allows the customer to initiate a modem call by holding down [6].

12.1.3 Remote Connection with Callback Verification

Remote connect with callback verification offers the highest degree of data security by incorporating a two-level security check.

The first level is provided because the Installer Code and the Password for A-Link Plus/RSC must match those of the control panel. The second level of security exists because the control panel calls the programmed callback telephone number to establish the valid connection.

To program the control panel for remote connection with callback verification:

1. Program the Call Back Telephone Number in Locations 159 to 174.
2. Select Options 1 and 2 in Location 180.
3. Program Ring Count in Location 175 as 1 – 13.

12.1.4 Answering Machine Bypass Connection

Answering Machine Bypass allows a connection with the control panel for remote control or Upload/Download when an answering machine or facsimile machine is on the same telephone line.

To program Answer Machine Bypass Connection:

1. Connect the Modem to the computer.
2. Program A-Link plus Option in location 180 as 1.
3. Program Ring Count in location 175 as 14 or 15.
4. On the A-Link Plus Customer Information screen, select Answer Machine Bypass and set Modem Dial Time and Dial Interval.

Modem Dial Time is from the start of the first call to the end of the first call. This value sets the number of rings, noting that one ring is “Ring, Ring – Ring, Ring” and that one ring represents approximately 5 – 6 sec. $\text{Number of rings} = \text{Modem Dial Time} / 6 (\text{remainder} + 1)$. Dial Interval is from the end of the first call to the start of the second call.

In A-Link Plus Customer Information screen, when Answer Machine Bypass 1 or 2 is enabled, A-Link Plus dials two times. Set appropriate Modem Dial Time and Dial Interval for the twice dialing to establish a successful answering machine bypass connection, preventing the answering machine or facsimile machine from answering the call. Refer to *Ring Count*, page 88 for more information on Answering Machine Bypass.



Notice!

Setting or not setting a callback number does not affect Answer Machine Bypass connection.

12.2 Network Connection

Use the IP connect feature to program a control panel using a portable computer. Telephone lines and modems are not required necessary.

To program the network connection with IP:

1. Connect a B426-M network module to the control panel using the SDI2 bus.
2. Program Location 81 or 82 as Option 1, or 2, or 3 (enable Cloud Connection with the alphanumeric codepad when Option 3 is selected). It is not necessary to program Location 180. The IP connect feature ignores this option.

3. From the A-Link Plus **Customer Information** tab, click **Search** to find the control panel IP address for the module according to network module's MAC address, and enter control panel port number such as 7700.
4. Enter the cloud module UID in the **Cloud ID** field when the cloud module is connected and Cloud Connection is enabled.



Notice!

For step 4, instead of enter the cloud module UID manually, you can get the UID filled automatically. For the details, go to the end of this section.

5. From the A-Link Plus **Link** tab, select **Network Connect (TCP/IP SSL)** or **Network Connect (Cloud)**, and click **Connect**.
6. Click **Upload from Control Panel**.

Network Connection with Domain Name

Use the Domain Name connect feature as another method to program the control panel using a portable computer.

To program the network connection with Domain Name:

1. Connect the B426-M network module to the control panel using the SDI2 bus.
2. Program Location 81 or 82 as Option 1, or 2, or 3 (enable Cloud Connection with the alphanumeric codepad when Option 3 is selected).
3. From the A-Link Plus **Customer Information** tab, instead of full control panel IP address for the B426-M, enter the domain name, for example: Test123.BOSCH.com, and enter the full control panel port number for the module.
4. Enter the cloud module UID in the **Cloud ID** field when the cloud module is connected and Cloud Connection is enabled.
5. From the A-Link Plus **Link** tab, select **Network Connect (TCP/IP SSL)** or **Network Connect (Cloud)**, and click **Connect**.
6. Click **Upload from Control Panel**.

How to get the UID filled automatically:

Precondition: in the **Customer Information** tab, the Cloud ID field is empty.

1. From the **Customer Information** tab, click **Search**. The module IP address should populate if the module is on the network. Enter this IP address into the Control Panel IP Field.
2. Go to the **Link** tab, select any Communication Model, and click **Connect**. A-Link should connect and synchronize with the control panel, and Cloud module UID appears.
3. Double click the UID on the **Link** tab, the UID should populate into the **Cloud ID** field of the **Customer Information** tab.
4. Go to the **Customer Information** tab to view UID.

12.3

Direct Connection

The direct connect feature gives the installer a simple method to program the control panel using a portable computer. Because telephone lines and modems are not required, programming of the control panel is easily completed in min.

To use the direct connect feature, connect the Direct Link Adapter between the correct serial port on your compatible computer and the auxiliary module socket on the control panel.

To use the direct connect feature, it is not necessary to select Option 1 Location 180. The direct connect feature ignores this option.

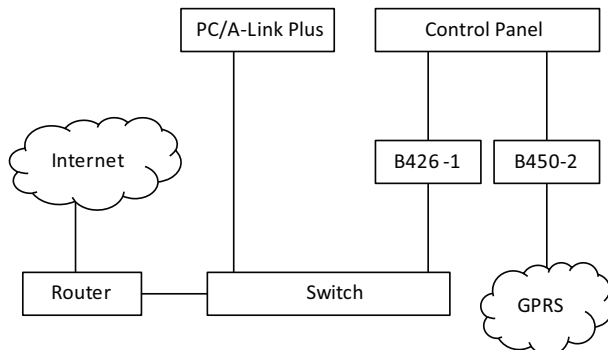
12.4 Options

Refer to

- *A-Link Plus Options, page 92*

12.5 Configuring for email

Enabled external network modules and configured Email parameters through A-Link Plus, the control panel sends emails to assigned inbox through external network modules when events received.



In the configuration diagram above, the control panel is programmed with Transmission Format as Email and two network modules are enabled to access mail server. It is an example of using B426/B426-M as network module 1 and B450/B450-M as network module 2. The wiring diagram is shown in above picture. “B426-1” means the rotary address switch of B426-M is set to 1; “B450-2” means the rotary address switch of B450-M is set to 2.

Refer to

- *External Network Modules, page 84*
- *A-Link Plus Software, page 28*

12.5.1 Configure through B426-M



Notice!

When Web Access Enable are set to Yes, B426-M module parameters except Email parameters can be configured through web interface. Email parameters are configured through A-Link Plus and downloaded to the control panel.

Follow the steps below to configure necessary parameters to network module and send emails through the module.

Step 1: Enable network module with an Alphanumeric codepad

1. Enter the Installer passcode (the default is 1234) and press [#] to enter Installer's Programming Mode.
2. Press [7][2][1] to access the Network Module menu, select **Network Module 1 or 2**, and press [#].
3. Select **3 - Used, B4xx-M**, and press [#].
4. Select **1 - Enable**, and press [#].
5. Continue to press [-] until you return to *Confirm to Save Parameter Changes*.
6. Press [#] to save changes.

Step 2: Connect module to the control panel.

1. Power off the control panel.

2. Connect the factory defaulted B426-M to the control panel.
3. Power on the control panel.

Step 3: Configure A-Link Plus for Network Connect

Configure Network Connect (Cloud) when B426-M is connected.

1. Open A-Link Plus.
2. Add a new customer.
3. From the **Customer Information** tab, enter the cloud module UID in the **Cloud ID** field when the cloud module is connected and Cloud Connection is enabled.
4. Select the **Control Panel Configuration** tab. Select Solution x000_Vx.xx according to your control panel type.
5. Select the **Link** tab. Select **Network Connect (Cloud)** and click **Connect**. A-Link Plus tries to connect to the control panel using the B426-M.
6. Click **Upload from Control Panel**.

Step 4: Configure the Email through A-Link Plus

1. Select the **Control Panel Configuration** tab and configure the Email parameters as indicated in the following table.
2. Return to the **Link** tab and reconnect the control panel. Click **Download to Control Panel** to complete the process. Check the parameters in the control panel to verify the parameter value changes were successfully downloaded.

Configuration menu	Parameter	Value	Remark
Comm -> Receiver Config	Transmit Format	Email	Select corresponding Receiver
	Subscriber ID Number	001234	Email title (example)
	IP + Port / Email	Receiver@163.com	Inbox (example)
Comm -> Network Config	Network Module 1	Use and configure or Used, B4xx-M	
Network module programming -> Module 1 # -> Basic Network Settings	IP Address		Enter original B426-M parameters with DHCP auto assigned IP address or static IP address.
	Local Port Number		
	Subnet Mask		
	Default Gateway		
	DNS Server Address		
Network module programming -> Module 1 # -> Mail Information	Partial mail server name / url	smtp.163.com	Example
	Mail server port	465	
	Partial mail server user name	test@163.com	Sent Items (example)
	Mail server password	*****	Password of Sent Items
	Security options	Encrypted	
Network module programming -> Module 1 # -> Encryption and Security Settings	Enhanced Security Enable	Enable	

Configuration menu	Parameter	Value	Remark
Network module programming -> Module 1 # -> Maintenance	Web Access Enable	Enable	
	Panel Programming Enable	Enable	

Now the control panel parameters and module parameters changed through A-Link Plus can be downloaded to the module.

12.5.2 Configure through B450-M

Enabled external network modules and configured Email parameters through A-Link Plus or alphanumeric codepad, the control panel sends emails to assigned inbox through external network modules when events received.

Step 1: Enable network module with the alphanumeric codepad

1. Enter the Installer passcode (the default is 1234) and press [#] to enter Installer's Programming Mode.
2. Press [7][2][1] to access the Network Module menu, select **Network Module 1 or 2**, and press [#].
3. Select **3 - Used, B4xx-M**, and press [#].
4. Select **1 - Enable**, and press [#].
5. Continue to press [-] until you return to *Confirm to Save Parameter Changes*.
6. Press [#] to save changes.

Step 2: Reset module to factory default

If the parameters of the B450-M with B44x inserted are already set to their factory default values, skip the steps below and go to the next set of steps.

1. Power off the control panel.
2. Set the rotary address switch of the module to "0".
3. Connect the module to the computer with a male to male USB cable.
4. Power on the control panel.
5. Wait until the heartbeat LED on the B450-M flashes 3 times per second and the status LED on the B44x flashes 1 time per second. The flashing indicates the startup process has completed.
6. Install "Tera Term" software from the B450-M CD on the computer and open it, select the serial port named B450 Config Interface.
7. Press [ENTER] to enter the B450 USB login interface.
8. Enter passcode "B450" and press [ENTER]. The main menu opens.
9. Enter "5" to select Reset To Factory Default. At the message "Are you sure (Y to default, N to exit)", input "Y" to confirm. The interface returns to the main menu.

Step 3: Connect module to the control panel

1. Power off the control panel.
2. Connect the factory defaulted B450-M with a SIM card inserted B44x to the control panel.
3. Set the rotary address switch of the module to 1 or 2.
4. Power on the control panel.

Step 4: Configure A-Link Plus for Network Connect when B450-M is connected

1. Open A-Link Plus.
2. Add a new customer.
3. From **Customer Information** tab, enter the cloud module UID in the **Cloud ID** field when the cloud module is connected and Cloud Connection is enabled.

4. Select the **Control Panel Configuration** tab. Select Solution x000_Vx.xx according to your control panel type.
5. Select the **Link** tab. Select **Network Connect (Cloud)** and click **Connect**. A-Link Plus tries to connect to the control panel using the B450-M.
6. Click **Upload from Control Panel**.

Step 5: Configure the Email through A-Link Plus

1. Open A-Link Plus, go to **Control Panel Configuration** tab. Select Solution x000_Vx.00 according to your control panel type.
2. Configure email related parameters.
3. Select the **Link** tab, select a connect method and click **Connect**. Click **Download to Control Panel** when the connection is successful to complete the process.

Configuration menu	Parameter	Value	Remark
Comm -> Receiver Config	Transmit Format	Email	Select corresponding Receiver
	Subscriber ID Number	001234	Email title (example)
	IP + Port / Email	Receiver@163.com	Inbox (example)
Comm -> Network Config	Network Module 2	Used, B4xx-M	Select corresponding module
Network module programming -> Module 2 # -> Mail Information	Partial mail server name / url	smtp.163.com	Example
	Mail server port	465	
	Partial mail server user name	test@163.com	Sent Items (example)
	Mail server password	*****	Password of Sent Items
	Security options	Encrypted	

12.6

Special functions

A-Link Plus supports to launch below functions once the communication to the control panel is established.

To Launch selected function:

1. From the A-Link Plus **Control Panel Configuration** tab, make sure the required zones, areas, onboard outputs, B228 / B308 / B520 modules, and doors are configured.
2. Go to the **Link** tab, select one option from the configured **Communication Model**, click **Connect**.
3. Expand the Solution 4000_Vx.xx, selection one option from the drop list, then select one function from the Select Special Function, and click **Launch the Selected Function**.
 - Zone Information
 - Refresh Status, this is for diagnosing zone1 - 32 and door zone 129 - 132
 - Bypass zone (unbypass zone)
 - B5xx Aux Power Supply Information

- Refresh Status, this is for diagnosing B5xx module 1 - 4
- Area 1 - 2
 - Away arm / Stay 1 arm / Stay 2 arm, and disarm
- Door 1 - 4
 - Cycle / Lock / Unlock / Secure, and unsecure
- Output 1 - 4
 - Remote Output ON, and Remote Output OFF
- B308 1 - 3
 - Remote Output ON, and Remote Output OFF
- B228 1 - 3
 - Remote Output ON, and Remote Output OFF, only for valid B228 addresses

13 Communication Information

This section outlines the programming information required for the control panel when communicating with a base station receiver. These parameters specify the telephone numbers to call, transmission formats, and transmission speeds.

The control panel can report event information from two on-board communicators / modules. The first communicator reports to Receiver 1 and 2 and the second communicator reports to Receiver 3 and 4.

When only one communicator is used, the communicator reports to Receiver 1/2/3/4.

You can program each communicator with two separate telephone numbers, reporting format type, and Subscriber ID Number.

Example

You can set up Communicator 1 to notify alarms in Domestic Dialing Format to Receiver 1 and set up Communicator 2 to report to a base station receiver in Contact ID Format only if Communicator 1 is unsuccessful.

To program a telephone number:

When programming a telephone number, you can program a 0 as a 0. Each location in the primary, secondary, and callback telephone numbers stores one digit of the telephone number.

You must insert a terminator (15) at the end of a telephone number to indicate to the communicator the end of the telephone number is reached. The dialing sequence terminates when a 15 appears.

Example

To program the telephone number 9672 1055 as the Primary Telephone Number for Receiver 1, program the following sequence into Locations 000 to 015: [9 6 7 2 1 0 5 5 15 15 15 15 15 15 15]

To enter a 4-sec pause in the dialing sequence, program a 13. A pause might be necessary when the module communicates through an old (slower) telephone exchange or when a PABX system is in place.

Example

To program the number 02 pause 9672 1055, enter: [0 2 13 9 6 7 2 1 0 5 5 15 15 15 15 15]. How to program the numbers, keys, and functions for a telephone number, refer to below table.

Digit Required	Number to Program	Digit Required	Number to Program
0	0	8	8
1	1	9	9
2	2		
3	3	*	* 1
4	4	#	* 2
5	5	4-sec Pause	* 3
6	6		
7	7	Terminator	* 5

Table 13.11: Dialing Digits

13.1 Primary Telephone Number for Receivers

Item	Location	Option	Default	New
Phone Number 1 - Receiver 1	0000 - 0015	15 = Telephone termination	15	
Phone Number 1 – Receiver 2	0040 - 0055	15 = Telephone termination	15	
Phone Number 1 – Receiver 3	1417 - 1432	15 = Telephone termination	15	
Phone Number 1 – Receiver 4	1457 - 1472	15 = Telephone termination	15	

When the control panel transmits a report, the panel dials the Primary Telephone Number to contact the monitoring station, for example. If the call is successful, the relevant information is transmitted and the communicator returns to Standby Mode.

If unsuccessful, the communicator attempts two more calls using the Primary Telephone Number for Receiver 1. If these calls are unsuccessful, the communication module calls the Secondary Telephone Number for Receiver 1 up to three times. If the dialing sequence is still unsuccessful, the control panel repeats this sequence by dialing the Primary and Secondary Telephone Numbers for Receiver 2 (if they are programmed).

If the first six attempts are unsuccessful and no telephone numbers for Receiver 2 are programmed, this procedure is repeated every 10 min continuously till the report is transmitted successfully.

Contact your monitoring station for the correct telephone numbers before you program these locations. With a text codepad, go to menu 711 First Phone Number to program the primary telephone numbers.

13.2 Secondary Telephone Number for Receivers

Item	Location	Option	Default	New
Phone Number 2 – Receiver 1	0016 - 0031	15 = Telephone termination	15	
Phone Number 2 – Receiver 2	0056 – 0071	15 = Telephone termination	15	
Phone Number 2 – Receiver 3	1433 – 1448	15 = Telephone termination	15	
Phone Number 2 – Receiver 4	1473 – 1488	15 = Telephone termination	15	

For programming information, refer to *Primary Telephone Number for Receivers, page 81*.

With a text codepad, you go to menu 712 Second Phone Number to program the secondary telephone numbers.

13.3 Transmission Format for Receivers

Item	Location	Option	Default	New
Transmission Format – Receiver 1	0033	0 = Not used	1	
Transmission Format – Receiver 2	0073	1 = Contact ID	1	
Transmission Format – Receiver 3	1450	4 = Domestic	1	
Transmission Format – Receiver 4	1490	5 = Conettix IP	1	
		6 = SIA Fast		
		7 = SIA Slow		
		8 = CSVIP		
		9 = Email		

Select the desired transmission format here. These locations select the data format used to transmit to the base station receiver. These locations also allow you to configure the control panel for domestic formats.

value 5 – Conettix IP (for China only)

value 8 – CSVIP (for Australia only)

With a text codepad, go to menu 713 Transmit Format to set the transmission for Receiver 1 and Receiver 2.

13.4 Subscriber ID Number for Receivers

Item	Location	Option	Default	New
Subscriber ID Number - Receiver 1	0034 - 0039		0	
Subscriber ID Number - Receiver 2	0074 - 0079		0	
Subscriber ID Number - Receiver 3	1451 - 1456		0	
Subscriber ID Number - Receiver 4	1491 - 1496		0	

The Subscriber ID Number is transmitted to identify the calling control panel. Enter the Subscriber ID Number in the six locations provided for each receiver.

When using Domestic Dialing Format, the number of identification beeps (0 to 9) is determined by the value (0 to 9) programmed in Location 039/079/1456/1496 (Receiver 1/2/3/4). This value allows the identification of up to 10 different control panels that call the same telephone number.

With a text codepad, go to menu 714 Subscriber ID Number to set Subscriber ID Number for Receiver 1 and Receiver 2.

Example

To program the Subscriber ID Number as 4729, program the six locations as: [0 0 4 7 2 9], the last digit 9 can help to identify the dedicated control panel via 9 beeps.

13.5 IP Items for Receivers

Item	Location	Option	Default	New
IP + Port / Email – Receiver 1	1000 - 1099			
CSVIP User Name and Password – Receiver 1	1100 - 1163			
IP + Port / Email – Receiver 2	1200 – 1299			
CSVIP User Name and Password – Receiver 2	1300 – 1363			
IP + Port / Email – Receiver 3	2060 - 2159			
CSVIP User Name and Password – Receiver 3	2160 - 2223			
IP + Port / Email – Receiver 4	2260 - 2359			
CSVIP User Name and Password – Receiver 4	2360 - 2423			

CSVIP User Name and Password are valid only when CSVIP is select as transmission format. For IP + Port / Email, enter IP address and port number when CSVIP is select; enter email address when Email is select as transmission format.

Program IP items with A-Link Plus Software or Alphanumeric codepad

1. Select **Comm -> Receiver Config -> Transmit Format**, select **CSVIP** for Receiver 1 or Receiver 2.
2. Select **Comm -> Receiver Config -> Subscriber ID Number**, enter Subscriber ID Number.
3. Select **Comm -> Network Config** , select module 1 or 2 as **Use, do not configure**.
4. Select **Comm -> Receiver Config -> IP + Port / Email**, enter IP and the Port, for example, **192.168.226.17:12000**.
5. Select **Comm -> Receiver Config -> CSVIP User Name And Password**, enter CSVIP User Name and Password:
 - Both user name and password, enter as user name with comma and password with comma, for example, **USER 1, 2580,**.
 - Only user name, enter as user name with two commas, for example, **USER 1,,**.
 - Only password, enter as comma, followed by password with comma, for example, **, 2580,**.
 - No user name and password, only enter two commas.

For A-Link Plus, enter up to 32 case sensitive alphanumeric characters for CSVIP User Name and Password directly through keyboard.

For Alphanumeric codepad, enter sensitive alphanumeric characters as below table.

Codepad Key	Characters / Function	Codepad key	Characters / Function
▲	Step back former character	6	[m], [n], [o], [6]
_	Exit item setting	7	[p], [q], [r], [s], [7]
▼	Move to next character	8	[t], [u], [v], [8]
1	[.], [@], [:], [_], [1]	9	[w], [x], [y], [z], [9]
2	[a], [b], [c], [2]	*	Case shift
3	[d], [e], [f], [3]	0	[Space], [,], [/], [?], [0]
4	[g], [h], [i], [4]	#	Confirm item setting
5	[j], [k], [l], [5]		

Table 13.12: Alphanumeric on Alphanumeric codepad

Program Email with A-Link Plus

Refer to *Configure through B426-M, page 75* for more information to configure Email through A-Link Plus.

With a text codepad, go to menu 715 IP + Port / Email and 716 CSVIP user name and password to set IP items for receivers.

13.6 Conettix Items for Receivers

Item	Location	Option	Default	New
Anti-replay	1400	1 = Anti-replay for Receiver 1 Enable 2 = Anti-replay for Receiver 2 Enable 4 = Reserved 8 = Reserved	3	

Item	Location	Option	Default	New
ACK Wait Time – Receiver 1	1401 - 1402	0 – 9 = 0 – 99 sec.	5	
Heart Beat Time – Receiver 1	1403 - 1404	1 – 9 = 1 – 99 min.	1	
ACK Wait Time – Receiver 2	1405 - 1406	0 – 9 = 0 – 99 sec.	5	
Heart Beat Time – Receiver 2	1407 - 1408	1 – 9 = 1 – 99 min.	1	
ACK Wait Time – Receiver 3	1409 - 1410	0 – 9 = 0 – 99 sec.	5	
Heart Beat Time – Receiver 3	1411 - 1412	1 – 9 = 1 – 99 min.	1	
ACK Wait Time – Receiver 4	1413 - 1414	0 – 9 = 0 – 99 sec.	5	
Heart Beat Time – Receiver 4	1415 - 1416	1 – 9 = 1 – 99 min.	1	

These three Conettix items are only available when the Transmission Format is selected as Conettix IP.

Conettix Anti-replay

This location has two programming options. You can select any combination of the options by programming a single value. Calculate this value by adding the option bit numbers together. Default is to enable Anti-replay for both receivers.

Conettix ACK Wait Time

ACK Wait Time set the time the control panel receives an acknowledgment from the receiver. If the time is exceeded and the acknowledgment is not yet received, the control panel assumes the attempt is a failure and prepares for next attempt.

Conettix Heartbeat Time

Heartbeat time set the interval for network supervision. When the time is due, the control panel transmits supervising signals to the receiver to ensure the network connect is normal. With a text codepad, go to menu 717 Conettix ACK wait time, 718 Conettix heart beat time and 719 Conettix anti-replay enable to set Conettix parameters for receivers.

13.7 External Network Modules

Item	Location	Option	Default	New
External Network Module 1	0081	0 = Not used 1 = Use, do not configure	0	
External Network Module 2	0082	2 = Use and configure 3 = Used, B4xx-M	0	

Location 81 enables/disables the external network module 1.

Location 82 enables/disables the external network module 2.

If with text codepad, go to menu 721 Network Module to enable/disable the network module.

When the value of the location above is 0, the external network module is disabled accordingly.

When the value is 1, the corresponding network module is enabled, but the control panel won't configure parameters of network module.

When the value is 2, the corresponding network module is enabled, and the control panel will configure the relevant parameters to network module.

When the value is 3, cloud module B4xx-M is selected, and Cloud Connection can be set disabled or enabled.

13.8 Basic Network Settings

Item	Location	Option	Default	New
Network Module 1 IPv6 Mode	4020 - 4021	[4020] 0, [4021] 0 = Disable [4020] 0, [4021] 1 = Enable	01	

Item	Location	Option	Default	New
Network Module 2 IPv6 Mode	7020 - 7021	[7020] 0, [7021] 0 = Disable [7020] 0, [7021] 1 = Enable	00	

Network Module 1

Item	Location	Option	Default	New
Module's IPv4 Static Address	4022 - 4029		0, 0, 0, 0, 0, 0, 0, 0	
IPv4 Subnet Mask	4030 - 4037		15, 15, 15, 15, 15, 15, 0, 0	
IPv4 Default Gateway	4038 - 4045		0, 0, 0, 0, 0, 0, 0, 0	

Network Module 2

Item	Location	Option	Default	New
Module's IPv4 Static Address	7022 - 7029		0, 0, 0, 0, 0, 0, 0, 0	
IPv4 Subnet Mask	7030 - 7037		15, 15, 15, 15, 15, 15, 0, 0	
IPv4 Default Gateway	7038 - 7045		0, 0, 0, 0, 0, 0, 0, 0	



Notice!

Program IP address with hex numbers.

For example, for IP address 192.168.1.1 (Hex: C0.A8.01.01), program Location 4022 - 4029 as:

4022 = 12

4023 = 0

4024 = 10
 4025 = 8
 4026 = 0
 4027 = 1
 4028 = 0
 4029 = 1

User these parameters to set IPv4 and IPv6 parameters when the control panel is communicating with a remote computer using the A-Link Plus software over the Network Connect (Cloud).

13.9 Network Module Cloud Connection

Item	Location	Option	Default	New
Module 1 Cloud Connection	4456	0 = Disable 4 = Enable	0	
Module 2 Cloud Connection	7456		0	

If with text codepad, go to menu 721 Network Module to enable/disable the cloud module B4xx-M.

13.10 Password for A-Link Connection

Item	Location	Option	Default	New
Password for A-Link Plus/RSC Connection	0083 - 0092		0	

Theses locations store up to 10-digit password for A-Link or RSC connection. The A-Link / RAC Password in the A-Link Plus software must be the same one as programmed in these locations.

Defaulted password is 0000000000 for both in control panel and in A-Link Plus.

13.11 DTMF Timing Compensation

Item	Location	Option	Default	New
DTMF Timing Compensation	0111	0 = Disable 1 - 9 = Timing compensation	0	

DTMF Timing Compensation is used to pre-compensate signal distortion generated by digital telephone applications (Fiber telephone, VoIP, or GSM module). It can help to reduce failures in alarm communication.

DTMF Timing Compensation works only with Contact ID format. Defaulted 0 is to disable this function and the communication capabilities remains the same .

Enable this function by selecting value from 1 to 9 when it is really necessary. 9 is for highest compensation, but not higher is better. Select the optimal value by bidirectional testing from 4.

13.12 Country Codes

Item	Location	Option	Default	New
Country codes	0112	0 = Australia & New Zealand 1 = China	0	

Value 0 is also for Singapore.

13.13 Telco Arming Sequence

Item	Location	Option	Default	New
Telco Arming Sequence (Call Forward On)	0113 - 0142	15 = Telephone termination	15	

These locations allow you to activate call diversion automatically on your telephone when you arm the system in AWAY Mode.

When the Telco Arming Sequence is activated after arming the system in AWAY Mode, the control panel redirects all calls to your mobile phone.

Contact your telecommunications provider for more information on Call Forward operations.

Digit Required	Number to Program	Digit Required	Number to Program
0	0	8	8
1	1	9	9
2	2		
3	3	*	* 1
4	4	#	* 2
5	5	4-sec Pause	* 3
6	6		
7	7	Terminator	* 5

Table 13.13: Dialing Digits

To turn call forward (immediate) on, enter:

[* 2 1][forwarding telephone number][#]

Example

To immediately forward all incoming calls to the telephone number 96721055 after arming the system in AWAY Mode, program:

[11 2 1 9 6 7 2 1 0 5 5 12 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15]

To turn call forward (no answer) on, enter:

[* 6 1][forwarding telephone number][#]

Example

To forward all incoming calls, when there is no answer, to the telephone number 96721055 after arming the system in AWAY Mode, program:

[11 6 1 9 6 7 2 1 0 5 5 12 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15]

13.14 Telco Disarming Sequence

Item	Location	Option	Default	New
Telco Disarm Sequence (Call Forward Off)	0143 - 0158	15 = Telephone termination	15	

These locations allow you to deactivate call diversion automatically on your telephone when you disarm the system from AWAY Mode.

To turn call forward (immediate) off, enter:

[# 2 1 #]

Example

To disable call forward (immediate) after disarming the system from AWAY Mode, program:

[12 2 1 12 15 15 15 15 15 15 15 15 15 15]

To turn call forward (no answer) off, enter: [# 6 1 #]

Example

To disable call forward (no answer) after disarming the system from AWAY Mode, program:

[12 6 1 12 15 15 15 15 15 15 15 15 15 15]

13.15 Call Back Telephone Number

Item	Location	Option	Default	New
Call Back Telephone Number	0159 - 0174	15 = Telephone termination	15	

The locations store the telephone number to call when Upload/Download is requested or the user holds down [6] to initiate a modem call from the control panel to establish a communications link with the remote computer. The computer must be running the A-Link Plus software and must be set to Waiting for an Incoming Call. The Call Back Telephone Number is also required if Remote Connection with Callback Verification is required.

13.16 Ring Count

Item	Location	Option	Default	New
Ring Count	0175	0 = Panel does not answer 1 - 13 = Number of rings until panel answers 14 = Answering machine bypass 2 15 = Answering machine bypass 1	8	

This location sets the number of rings before the control panel answers an incoming call. Set this count to an acceptable level, noting that one ring is “Ring, Ring - Ring, Ring” and that a Ring Count of 10 represents approximately 60 sec. This location has an effect only if Remote Arming, remote Upload/Download using A-Link Plus, or both are used over a telephone line. Programming this location to 0 prevents the control panel from answering incoming calls regardless of other programmed options.

Answering Machine Bypass

Answering Machine Bypass allows a connection with the control panel for Remote Arming or Upload/Download when an answering machine or facsimile machine is on the same telephone line. Answering Machine Bypass has two different methods. Program a 14 to use

the secondary method only when there is a large amount of traffic on the line (at a home office, for example). This method reduces the chance of the control panel incorrectly answering an incoming call.

Programming the Ring Count to 15 enables Answering Machine Bypass in the primary mode. When calling the control panel, allow the telephone to ring no more than four times and then hang up. If after 8 seconds you call again within 45 sec, the control panel answers the call on the first ring and the connection is established. This prevents the answering machine or facsimile machine from answering the call. To enable Answering Machine Bypass only when the system is armed, select Option 4 in Location 177 (refer to *Communication Options 1, page 90*).

Program the Ring Count to 14 to enable Answering Machine Bypass in the secondary mode. In this case, call the control panel and allow the phone to ring no more than twice and hang up. Wait a minimum of 8 sec and call the control panel again within 45 sec. The control panel answers on the first ring. If you do not wait the 8 sec, the control panel does not answer the call. To enable Answering Machine Bypass only when the system is armed, select Option 4 in Location 177.



Notice!

Set the Ring Count for the answering machine or facsimile machine to a value greater than two rings. Four to six rings is preferred.

Program a 0 into this location to disable the control panel from answering an incoming call.

13.17 Telephone Line Fail Options

Item	Location	Option	Default	New
Telephone Line Fail Options	0176	1 = Display FAULT Indicator when telephone line fails 2 = Sound alarm when system is armed 4 = Sound alarm when system is disarmed 8 = Reserved	0	



Notice!

If using an VOIP service or dial capture device to report, please do not enable this option.

This location has three options. You can select any combination of these options by programming a single value. Calculate this value by adding the option bit numbers together. The control panel monitors the telephone line. If the telephone line is cut or disconnected for longer than 40 sec, the control panel lights the FAULT indicator on the codepad. The FAULT indicator is extinguished after the telephone line is restored for longer than 40 sec.



Notice!

Options 2 and 4 do not operate unless you also enable Option 1.

1 - Display FAULT indicator when the Telephone Line Fails

When this options is selected, the FAULT indicator flashes and the codepad buzzer beeps once per min if the control panel detects that the telephone line is disconnected.

2 - Sound Alarm when System Is Armed

You must also select Option 1 to use this option. If the control panel detects that the telephone line is disconnected when the system is armed, the horn speaker, bell, and strobe outputs are activated. If only one audible alarm per arming cycle is required, select the Lockout Telephone Line Fail Alarm option (2) in Location 179 (refer to *Communication Options 3*, page 91).

4 - Sound Alarm when System Is Disarmed

You must also select Option 1 to use this option. If the control panel detects that the telephone line is disconnected when the system is disarmed, the horn speaker, bell, and strobe outputs are activated. If only one audible alarm per arming cycle is required, select the Lockout Telephone Line Fail Alarm option (2) in Location 179.

**Notice!**

If you program 7 in this location, the horn speaker, bell, strobe, and outputs are all activated when the system is armed or disarmed.

13.18 Communication Options 1

Item	Location	Option	Default	New
Communication Options 1	0177	1 = Reporting functions allowed 2 = Remote arming by telephone allowed 4 = Answering machine bypass only when armed 8 = Use Bell 103 for FSK format (Disabled = CCITT V21)	9	

1 – Reporting Functions Allowed

When selected, this option operates for all reporting functions.

If you do not select this option, the communication does not operate.

Upload/Download using the A-Link-Plus software and telephone remote arming remains operational regardless of this setting.

2 – Remote Arming by Telephone Allowed

If you select this option, you can remotely arm the system using a standard telephone by pressing [*] on your touch-tone telephone.

Forced arming is automatically assumed when this feature is used.

4 – Answering Machine Bypass Only When Armed

Select this option to enable the Answering Machine Bypass feature when the system is armed. When the system is disarmed, the control panel does not answer any incoming calls. This option is beneficial in high telephone traffic installations where the control panel could answer an incoming call.

8 – Use Bell 103 for FSK Format (Disabled=CCITT V21)

If this option is selected, the control panel uses the BELL 103 transmission frequency at 300 baud. If this option is not selected, the control panel uses the CCITT V21 transmission frequency at 300 baud.

13.19 Communication Options 2

Item	Location	Option	Default	New
Communication Options 2	0178	1 = Arm/Disarm Reports only if alarmed 2 = STAY Mode Arm/Disarm Reports Enable 4 = Delay siren until transmission complete 8 = Extend handshake wait time from 30 to 60 sec.	0	

1 – Arm/Disarm Reports Only if Previous Alarm

When selected, an Disarm Report is transmitted to the base station receiver when the system is disarmed after an alarm occurred. When the system is armed, an Arming Report is transmitted. An Arm or Disarm Report does not report again until the system registers another alarm.

For a partitioned control panel, an Arm/Disarm Report is sent only for the area in which the alarm occurred.



Notice!

If the system is disarmed when an alarm occurs, only an Arm Report is sent the next time the system is armed.

A User Code with a priority set to Always Send Arm/Disarm Reports overrides this feature (Arm/Disarm Reports are always sent for that User Code).

2 – STAY Mode Arm/Disarm Reports Enable

Select this option if Arm/Disarm Reports are required when the system is armed in STAY Mode 1 or STAY Mode 2.

If this option is selected, a Partial Arm Report is sent when the system is armed in STAY Mode 1 or STAY Mode 2.

4 – Delay Siren until Transmission Complete

If this option is selected, horn speaker, bell, and strobe outputs are not activated until after the control panel sends the message and the base station receiver sends a kiss-off back to the control panel. If multiple messages are transmitted, the sirens are activated after the last kiss-off is sent.

If a Codepad Panic, Codepad Fire, or Codepad Medical Alarm is activated, horn speaker, bell, and strobe outputs operate immediately.

8 – Extend Time to Wait for Handshake from 30 to 60 Sec

By default, the control panel waits approximately 30 sec for receipt of a valid handshake tone after it dials the monitoring station. The handshake tone indicates to the control panel that it reached the monitoring station and can now transmit its messages. Selecting this option extends this wait time from 30 sec to 60 sec.

13.20 Communication Options 3

Item	Location	Option	Default	New
Communication Options 3	0179	1 = Set DTMF dialing pluses to 1 digit/sec 2 = Lockout telephone line fail alarm 4 = Reserved 8 = Reserved	2	

1 – Set DTMF Dialing Pulses to 1 Digit/Sec

If this option is not selected, the DTMF dialing format dials at 5 digits per sec (that is, 100 ms tone, 100 ms pause, 100 ms tone, 100 ms pause).

If this option is selected, the DTMF dialing format dials at the rate of 1 digit per sec (that is, 500 ms tone, 500 ms pause).

2 – Lockout Telephone Line Fail Alarm

Selecting this option allows an audible alarm only once per arming cycle when the control panel detects the telephone line is cut or disconnected. This option does not follow the Swinger Shutdown Count for Siren, in which you can program the number of times a zone can sound an alarm during an arming cycle. Use Location 176 to program the telephone line fault options, refer to *Telephone Line Fail Options*, page 89.

13.21 A-Link Plus Options

Item	Location	Option	Default	New
A-Link Plus Options	0180	1 = Enable upload/download using A-Link 2 = Enable A-Link callback 4 = Terminate A-Link connection on alarm 8 = Reserved	3	

**Notice!**

The A-Link options are available only for link through the telephone line. The options are not related to connection through network or direct connection.

1 – Enable Upload/Download Using A-Link

Select this option to use the A-Link Plus software to initiate connection with the control panel to program and control the control panel remotely. The control panel does not respond to A-Link if this option is not selected.

Control panel establishes connection with A-Link Plus through callback method regardless of this setting.

2 – Enable A-Link Call Back

If this option is selected and a callback telephone number is programmed, the remote programming computer must be connected to the telephone line programmed in the callback telephone number in Locations 159 to 174.

If this option is not selected, the installer can connect to a customer's control panel from any remote location for Upload/Download operations without the control panel calling back to the remote computer. The customer can initiate a modem call from the codepad by holding down [6].

4 – Terminate A-Link Connection on Alarm

If an alarm occurs when the control panel is communicating with a remote computer using the A-Link Plus software over the telephone line, the A-Link session is terminated and the relevant alarm message is transmitted to the base station receiver.

If an alarm occurs that does not have to be reported to the base station receiver, the session is not terminated.

13.22 Domestic Dialing

The locations of the primary and secondary telephone numbers for Receiver 1/2/3/4 are used for base station and domestic dialing.

13.22.1 Domestic Dialing Function

When the control panel is activated into alarm, it dials the primary number. If a busy tone is detected, or the call is not acknowledged, the control panel hangs up and dials the primary number again. The control panel will try dialing the primary number up to 3 times. If all three attempts are unsuccessful, the control panel tries dialing the secondary number. The control panel will try the secondary number up to 3 times. If all dialing attempts are unsuccessful and the control panel has not received a "kiss-off" signal, the control panel discontinues dialing and generates a communication fail fault on the codepad. If another alarm is activated, the dialing sequence above starts over again.

If a busy tone is not detected, the control panel assumes the telephone was answered and sends its transmission. The transmission sequence consists of an identification beep, followed by a siren tone and a pause. The transmission sequence is repeated until the control panel receives an acknowledgment tone during the (3 sec about) pause. The control panel automatically hangs up after the transmission sequence is repeated 10 times. If more than one control panel dials to the same telephone number, the identification beep allows the customer to verify the control panel that called.

The identification beep is programmed in Location 039/079/1456/1496 of the Subscriber ID Number for Receiver 1/2/3/4.



Notice!

When set up for Domestic Dialing Format, the control panel attempts a maximum of six calls for each alarm event (3 on the primary number and 3 on the secondary number of a receiver). This count includes any unsuccessful calls. The counter is reset if the zone is reactivated and the control panel attempts an additional six calls. The control panel stops dialing after an any successful call. The control panel also stops dialing if a valid User Code is entered at the codepad. If both Receiver 1 and Receiver 2 are programmed for domestic dialing, the maximum number of calls for each alarm event is twelve.

To acknowledge domestic dialing:

To acknowledge the dialing and "kiss-off" the control panel, press the STAR (*) key multiple times (generally 6 or 7 times rapidly) and the control panel will then generate the descending tone and terminate the call. It should not call back unless another alarm event is triggered.

If the received call is not acknowledged during any of the transmission pauses by pressing the [*] key multiple times on a touch-tone telephone, the control panel repeats its transmission sequence 10 times and then it hangs up. If the call is successfully acknowledged during 10 times, the control panel hangs up and makes no more calls for that event.

13.22.2 Setting Up and Programming Domestic Reporting

Programming the control panel for domestic reporting is extremely simple when using the Installer's Programming Command 965.

To set up the control panel for domestic dialing:

1. Enter the Installer Code and press [AWAY] to enter Installer's Programming Mode. Two beeps sound and the STAY and AWAY indicators flash.

2. Enter [9 6 5] and press [AWAY]. Two beeps sound. The control panel is now set up for Domestic Dialing Format for Receiver 1.
3. Enter [9 6 0] and press [AWAY] to exit from Installer's Programming Mode. Two beeps sound and the STAY and AWAY indicators are extinguished. The system returns to the disarmed state.
 - Step 1 - 3 is operated via ICON codepad; when using with a TEXT codepad, enter the installer code and press [AWAY] to enter Installer's Programming Mode, go to menu 747 Set Up Domestic Dialing Format, then exit with saving.
4. To program your telephone numbers, enter your Master Code and press [2][AWAY]. Three beeps sound and the STAY and AWAY indicators flash. There are 4 telephone number locations. Numbers 1 and 2 are for receiver 1. Numbers 3 and 4 are for receiver 2. After the [965] command, the receiver 1 format is domestic and receiver 2 format is contact ID. Press [1] to view and set/modify telephone number 1 followed by [AWAY] to complete the process. If you still want to set telephone number 2, you will have to enter Master Code and press [2][AWAY], then press [2] to select number 2. If any telephone numbers are already programmed, they are displayed one digit at a time using the codepad indicators. If no telephone numbers are programmed, two additional beeps sound after you enter this mode. These two beeps normally sound after the last digit of the last phone number is displayed.
5. Enter the digits for telephone number 1, one digit at a time. As you enter each digit, the corresponding codepad indicator lights. If using a text codepad, the programmed number and new entered number are displayed.
6. After the last digit of the telephone number, press [AWAY] to exit from this mode.
7. Repeat *Step 5-7* for each additional phone number.

Digit Required	Number to Program	Digit Required	Number to Program
0	0	8	8
1	1	9	9
2	2		
3	3	*	[STAY]1
4	4	#	[STAY]2
5	5	4 sec pause	[STAY]3
6	6		
7	7	terminator	[STAY]5

Table 13.14: Domestic Dialing Digits

13.23

Reporting Formats

The control panel provides a number of transmission formats for its reporting and communication features. Program the transmission format for Receiver 1 in Location 033 and the transmission format for Receiver 2 in Location 073 (refer to *Transmission Format for Receivers* , page 81).

The transmission format can also be selected with location options to specify how to transmit the information to the base station receiver. If Contact ID, or Domestic, or SIA format is selected, the information is transmitted by telephone line; if SIA Fast format is selected, the transmission baud is SIA 300; if SIA Low format is selected, the transmission baud is SIA 110; if IP or Email format is selected, the information is transmitted to network by external network modules.

The control panel is set at the factory to report in the Contact ID Format.

13.23.1 Contact ID Format

Contact ID Format can identify hundreds of protection zones by their unique codes. This format provides a single-digit Event Qualifier and a three-digit Event Code that quickly identifies the reported condition.

In general, Contact ID Format is very simple because most of the Event Codes and Point ID Codes are predefined. The base station software usually can identify an alarmed zone by its Point ID Code and usually pays little attention to the Event Code.

Contact ID format is ACCT MT Q EEE GG CCC S.

Format	Description
ACCT	Four-digit Subscriber ID Number
MT	Message type, fixe das 18
Q	Event Qualifier, which provides specific event information: 1 – New event or disarming 3 – New restore or arming
EEE	Event Code (comprised of three hex digits)
GG	Group Number or Area Number (comprised of two hex digits)
CCC	Point ID Number or User Number (comprised of three hex digits), 000 means no point or user information
S	Checksum digit

Table 13.15: Contact ID Format Breakdown

13.23.2 SIA Format

SIA is a special format of using frequency shift keying (FSK) rather than a pulse to communicate quickly.

SIA format is # AAAAAA N GGGGGG EE CCCCCC.

Format	Description
#	Begin of Subscriber ID Number
AAAAAA	Subscriber ID Number
N	Begin of event
GGGGGG	Group / Area Number , User Number or Codepad Number
EE	Event Code

Format	Description
CCCCCC	Event Qualifier

Table 13.16: SIA Format Breakdown

13.23.3 System Reporting List

Index	Event Description	CID Event Code	CID Point ID	SIA Event Code	String (Email / Codepad Display)
1	ZoneAlarm	1130	Zone 1 - 32 Zone 129 - 132	BA	Z\$\$ Alarm
2	ZoneAlarmRestore	3130	Zone 1 - 32 Zone 129 - 132	BH	Z\$\$ Alarm Restore
3	ZoneTrouble	1380	Zone 1 - 32 Zone 129 - 132	BT	Z\$\$ Trouble
4	ZoneTroubleRestore	3380	Zone 1 - 32 Zone 129 - 132	BJ	Z\$\$ Trouble Restore
5	ZoneBypass	1573	Zone 1 - 32 Zone 129 - 132	BB	Z\$\$ Bypass
6	ZoneUnBypass	3573	Zone 1 - 32 Zone 129 - 132	BU	Z\$\$ UnBypass
7	24HrZoneAlarm	1133	Zone 1 - 32 Zone 129 - 132	BA	24Hr Z\$\$ Alarm
8	24HrZoneAlarmRestore	3133	Zone 1 - 32 Zone 129 - 132	BH	24Hr Z\$\$ Alarm Restore
9	24HrFireZoneAlarm	1110	Zone 1 - 32 Zone 129 - 132	FA	24Hr Fire Z\$\$ Alarm
10	24HrFireZoneAlarmRestore	3110	Zone 1 - 32 Zone 129 - 132	FH	24Hr Fire Z\$\$ Alarm Restore
11	24HrMedicalZoneAlarm	1100	Zone 1 - 32 Zone 129 - 132	MA	24Hr Medical Z\$\$ Alarm
12	24HrMedicalZoneAlarmRestore	3100	Zone 1 - 32 Zone 129 - 132	MH	24Hr Medical Z\$\$ Alarm Restore
13	24HrPanicZoneAlarm	1120	Zone 1 - 32 Zone 129 - 132	PA	24Hr Panic Z\$\$ Alarm
14	24HrPanicZoneAlarmRestore	3120	Zone 1 - 32 Zone 129 - 132	PH	24Hr Panic Z\$\$ Alarm Restore
15	24HrHoldUpZoneAlarm	1122	Zone 1 - 32 Zone 129 - 132	HA	24Hr Hold-Up Z\$\$ Alarm
16	24HrHoldUpZoneAlarmRestore	3122	Zone 1 - 32 Zone 129 - 132	HH	24Hr Hold-Up Z\$\$ Alarm Restore

Index	Event Description	CID Event Code	CID Point ID	SIA Event Code	String (Email / Codepad Display)
17	24HrTamperZoneAlarm	1137	Zone 1 - 32 Zone 129 - 132	TA	24Hr Tamper Z\$\$ Alarm
18	24HrTamperZoneAlarmRestore	3137	Zone 1 - 32 Zone 129 - 132	TR	24Hr Tamper Z\$\$ Alarm Restore
19	24HrZoneTrouble	1380	Zone 1 - 32 Zone 129 - 132	BT	24Hr Z\$\$ Trouble
20	24HrZoneTroubleRestore	3380	Zone 1 - 32 Zone 129 - 132	BJ	24Hr Z\$\$ Trouble Restore
21	24HrMedicalZoneTrouble	1380	Zone 1 - 32 Zone 129 - 132	MT	24Hr Medical Z\$\$ Trouble
22	24HrMedicalZoneTroubleRestore	3380	Zone 1 - 32 Zone 129 - 132	MJ	24Hr Medical Z\$\$ Trouble Restore
23	24HrTamperZoneTrouble	1380	Zone 1 - 32 Zone 129 - 132	TT	24Hr Tamper Z\$\$ Trouble
24	24HrTamperZoneTroubleRestore	3380	Zone 1 - 32 Zone 129 - 132	TJ	24Hr Tamper Z\$\$ Trouble Restore
25	24HrPanicZoneTrouble	1375	Zone 1 - 32 Zone 129 - 132	PT	24Hr Panic Z\$\$ Trouble
26	24HrPanicZoneTroubleRestore	3375	Zone 1 - 32 Zone 129 - 132	PJ	24Hr Panic Z\$\$ Trouble Restore
27	24HrHoldUpZoneTrouble	1376	Zone 1 - 32 Zone 129 - 132	HT	24Hr Hold-Up Z\$\$ Trouble
28	24HrHoldUpZoneTroubleRestore	3376	Zone 1 - 32 Zone 129 - 132	HJ	24Hr Hold-Up Z\$\$ Trouble Restore
29	24HrFireZoneTrouble	1373	Zone 1 - 32 Zone 129 - 132	FT	24Hr Fire Z\$\$ Trouble
30	24HrFireZoneTroubleRestore	3373	Zone 1 - 32 Zone 129 - 132	FJ	24Hr Fire Z\$\$ Trouble Restore
31	24HrBypass	1572	Zone 1 - 32 Zone 129 - 132	BB	24Hr Z\$\$ Bypass
32	24HrUnBypass	3572	Zone 1 - 32 Zone 129 - 132	BU	24Hr Z\$\$ UnBypass
33	24HrMedicalZoneBypass	1572	Zone 1 - 32 Zone 129 - 132	MB	24Hr Medical Z\$\$ Bypass
34	24HrMedicalZoneUnBypass	3572	Zone 1 - 32 Zone 129 - 132	MU	24Hr Medical Z\$\$ UnBypass
35	24HrTamperZoneBypass	1572	Zone 1 - 32 Zone 129 - 132	TB	24Hr Tamper Z\$\$ Bypass

Index	Event Description	CID Event Code	CID Point ID	SIA Event Code	String (Email / Codepad Display)
36	24HrTamperZoneUnBypass	3572	Zone 1 - 32 Zone 129 - 132	TU	24Hr Tamper Z\$\$ UnBypass
37	24HrPanicZoneBypass	1572	Zone 1 - 32 Zone 129 - 132	PB	24Hr Panic Z\$\$ Bypass
38	24HrPanicZoneUnBypass	3572	Zone 1 - 32 Zone 129 - 132	PU	24Hr Panic Z\$\$ UnBypass
39	24HrHoldUpZoneBypass	1572	Zone 1 - 32 Zone 129 - 132	HB	24Hr Hold-Up Z\$\$ Bypass
40	24HrHoldUpZoneUnBypass	3572	Zone 1 - 32 Zone 129 - 132	HU	24Hr Hold-Up Z\$\$ UnBypass
41	24HrFireZoneBypass	1571	Zone 1 - 32 Zone 129 - 132	FB	24Hr Fire Z\$\$ Bypass
42	24HrFireZoneUnBypass	3571	Zone 1 - 32 Zone 129 - 132	FU	24Hr Fire Z\$\$ UnBypass
43	RFSensorMissing	1381	Zone 1 - 32 Zone 129 - 132	BZ	RF Sensor \$\$ Missing
44	RFSensorMissingRestore	3381	Zone 1 - 32 Zone 129 - 132	BR	RF Sensor \$\$ Missing Restore
45	RFFireSensorMissing	1381	Zone 1 - 32 Zone 129 - 132	FZ	RF Fire Sensor \$\$ Missing
46	RFFireSensorMissingRestore	3381	Zone 1 - 32 Zone 129 - 132	FR	RF Fire Sensor \$\$ Missing Restore
47	SensorWatchFail	1391	Zone 1 - 32 Zone 129 - 132	NA	Sensor \$\$ Watch Fail
48	SensorWatchFailRestore	3391	Zone 1 - 32 Zone 129 - 132	NS	Sensor \$\$ Watch Fail Restore
49	SensorTamper	1144	Zone 1 - 32 Zone 129 - 132	TA	Sensor \$\$ Tamper
50	SensorTamperRestore	3144	Zone 1 - 32 Zone 129 - 132	TR	Sensor \$\$ Tamper Restore
51	RFSensorLowBattery	1384	Zone 1 - 32 Zone 129 - 132	XT	RF Sensor \$\$ Low Battery
52	RFSensorLowBatteryRestore	3384	Zone 1 - 32 Zone 129 - 132	XR	RF Sensor \$\$ Battery Restore
53	KeyfobLowBattery	1384	301 - 364	XT	Keyfob \$\$ Low Battery
54	KeyfobLowBatteryRestore	3384	301 - 364	XR	Keyfob \$\$ Battery Restore
55	Disarm	1401	User 1 - 64	OP	User\$\$\$/Installer/QuickArea\$ Disarm

Index	Event Description	CID Event Code	CID Point ID	SIA Event Code	String (Email / Codepad Display)
56	AwayArm	3401	User 1 - 64	CL	User\$\$\$ / Quick / PowerUp Area\$ AWAY Arm
57	Stay1Arm	3441	User 1 - 64	NL	User\$\$\$ / A-Link / Quick / PowerUp Area\$ STAY1 Arm
58	Stay2Arm	3456	User 1 - 64	NM	A-Link / Quick / PowerUp Area\$ STAY2 Arm
59	KeyswitchDisarm	1409	Zone 1 - 32 Zone 129 - 132	OS	Keyswitch Zone\$\$ Area\$ Disarm
60	KeyswitchAwayArm	3409	Zone 1 - 32 Zone 129 - 132	CS	Keyswitch Zone\$\$ Area\$ AWAY Arm
61	KeyswitchStay1Arm	3442	Zone 1 - 32 Zone 129 - 132	NL	Keyswitch Zone\$\$ Area\$ STAY1 Arm
62	AutoDisarm	1403	997	OA	Schedule Area\$ Disarm
63	AutoAwayArm	3403	997	CA	Schedule Area\$ AWAY Arm
64	AutoStay1Arm	3403	997	NL	Schedule Area\$ STAY1 Arm
65	RemoteDisarm	1407	998	OQ	A-Link Area\$ Disarm
66	RemoteAwayArm	3407	995 (Telephone) ; 998 (A-Link)	CQ	Telephone / A-Link Area\$ AWAY Arm
67	RemoteStay1Arm	3441	998	NL	A-Link Area\$ STAY1 Arm
68	RemoteStay2Arm	3456	998	NM	A-Link Area\$ STAY2 Arm
69	Duress	1121	User 1 - 64	HA	User\$\$\$ Duress Alarm
70	CodepadLocked (AccessDenied)	1461	881 - 884	JA	Codepad \$\$ Locked
71	KeyfobPanic	1120	301 - 364	PA	Keyfob \$\$ Panic
72	CodepadPanic	1120	881 - 884	PA	Codepad \$\$ Panic
73	CodepadMedical	1100	881 - 884	MA	Codepad \$\$ Medical
74	CodepadFire	1110	881 - 884	FA	Codepad \$\$ Fire
75	RFReceiverMissing	1333	821	EM	RF Receiver Missing
76	RFReceiverMissingRestore	3333	821	EN	RF Receiver Missing Restore
77	RFReceiverJamming	1344	821	XQ	RF Receiver Jamming
78	RFReceiverJammingRestore	3344	821	XH	RF Receiver Jamming Restore
79	RFReceiverTamper	1341	821	XS	RF Receiver Tamper
80	RFReceiverTamperRestore	3341	821	XJ	RF Receiver Tamper Restore

Index	Event Description	CID Event Code	CID Point ID	SIA Event Code	String (Email / Codepad Display)
81	RFRepeaterMissing	1333	822 - 829	EM	RF Repeater \$\$ Missing
82	RFRepeaterMissingRestore	3333	822 - 829	EN	RF Repeater \$\$ Missing Restore
83	RFRepeaterTamper	1341	822 - 829	XS	RF Repeater \$\$ Tamper
84	RFRepeaterTamperRestore	3341	822 - 829	XJ	RF Repeater \$\$ Tamper Restore
85	CodepadMissing	1333	881 - 884	EM	Codepad \$\$ Missing
86	CodepadMissingRestore	3333	881 - 884	EN	Codepad \$\$ Missing Restore
87	CodepadTamper	1341	881 - 884	ES	Codepad \$\$ Tamper
88	CodepadTamperRestore	3341	881 - 884	EJ	Codepad \$\$ Tamper Restore
89	IPModuleMissing	1333	871 - 872	EM	IP Module \$\$ Missing
90	IPModuleMissingRestore	3333	871 - 872	EN	IP Module \$\$ Missing Restore
91	IPModuleTamper	1341	871 - 872	ES	IP Module \$\$ Tamper
92	IPModuleTamperRestore	3341	871 - 872	EJ	IP Module \$\$ Tamper Restore
93	EXOutputMissing	1333	851 - 853	EM	Ex. Output \$\$ Missing
94	EXOutputMissingRestore	3333	851 - 853	EN	Ex. Output \$\$ Missing Restore
95	EXOutputTamper	1341	851 - 853	ES	Ex. Output \$\$ Tamper
96	EXOutputTamperRestore	3341	851 - 853	EJ	Ex. Output \$\$ Tamper Restore
97	PowerFail	1301	891	AT	AC Power Fail
98	PowerRestore	3301	891	AR	AC Power Restore
99	LowBattery	1302	891	YT	System Low Battery
100	BatteryRestore	3302	891	YR	System Battery Restore
101	AuxPowerFail	1312	891	YI	AUX Power Fail
102	AuxPowerFailRestore	3312	891	YJ	AUX Power Restore
103	PanelTamper	1341	891	ES	Panel Tamper
104	PanelTamperRestore	3341	891	EJp	Panel Tamper Restore
105	ProgramChange	1306	891	YG	Program Change
106	PhoneLineFail	1351	891	LT	Phone Line Fail
107	PhoneLineFailRestore	3351	891	LR	Phone Line Restore
108	OutputFail	1320	891	YA	Warning Device Fail
109	OutputFailRestore	3320	891	YH	Warning Device Restore
110	CommFail	1354	891	YC	Comm Fail
111	CommRestore	3354	891	YK	Comm Restore
112	CommManualTest	1601	000	RX	Comm Manual Test

Index	Event Description	CID Event Code	CID Point ID	SIA Event Code	String (Email / Codepad Display)
113	CommAutoTest	1602	000	RP	Comm Auto Test
114	DateTimeSet	1625	User 1 - 64; 998(A-Link)	JT	User\$\$\$ / A-Link Set Clock
115	WalkTestBegin	1607	000 (Installer) ; User 1 - 64	--	Walk Test Begin
116	WalkTestEnd	3607	000 (Installer) ; User 1 - 64	--	Walk Test End
117	B228 Missing	1333	101 - 103	EM	ExInput \$\$ Missing
118	B228 Missing Restore	3333	101 - 103	EN	ExInput \$\$ Missing Restore
119	B228 Tamper	1341	101 - 103	ES	ExInput \$\$ Tamper
120	B228 Tamper Restore	3341	101 - 103	EJ	ExInput \$\$ Tamper Restore
121	Push Fail	--	173 - 174	--	PUSH FAIL MOD \$\$\$
122	Push Restore	--	173 - 174	--	PUSHI RES. MOD \$\$\$
123	Service Mode On	--	0	--	Service Mode On
124	Service Mode Off	--	0	--	Service Mode Off
125	Power M \$\$ Tamper	1341	501 - 504	ES	Power M \$\$ Tamper
126	Power M \$\$ Tamper Restore	3341	501 - 504	EJ	Power M \$\$ Tamper Restore
127	Power M \$\$ Missing	1333	501 - 504	EM	Power M \$\$ Missing
128	Power M \$\$ Missing Restore	3333	501 - 504	EN	Power M \$\$ Missing Restore
129	Power M \$\$ AC Lost	1342	501 - 504	AT	Power M \$\$ AC Lost
130	Power M \$\$ AC Lost Restore	3342	501 - 504	AR	Power M \$\$ AC Lost Restore
131	Power M \$\$ Batt1 Missing	1338	501 - 504	YM	Power M \$\$ Batt1 Missing
132	Power M \$\$ Batt1 Missing Restore	3338	501 - 504	YR	Power M \$\$ Batt1 Missing Restore
133	Power M \$\$ Batt1 Volt Low	1338	501 - 504	YT	Power M \$\$ Batt1 Volt Low
134	Power M \$\$ Batt1 Volt Low Restore	3338	501 - 504	YR	Power M \$\$ Batt1 Volt Low Restore
135	Power M \$\$ Batt2 Missing	1338	501 - 504	YP	Power M \$\$ Batt2 Missing
136	Power M \$\$ Batt2 Missing Restore	3338	501 - 504	YQ	Power M \$\$ Batt2 Missing Restore
137	Power M \$\$ Batt2 Volt Low	1338	501 - 504	XT	Power M \$\$ Batt2 Volt Low

Index	Event Description	CID Event Code	CID Point ID	SIA Event Code	String (Email / Codepad Display)
138	Power M \$\$ Batt2 Volt Low Restore	3338	501 - 504	XR	Power M \$\$ Batt2 Volt Low Restore
139	Power M \$\$ Over Current	1312	501 - 504	YI	Power M \$\$ Over Current
140	Power M \$\$ Over Current Restore	3312	501 - 504	YJ	Power M \$\$ Over Current Restore
141	Power M \$\$ Trouble	1330	501 - 504	ET	Power M \$\$ Trouble
142	Power M \$\$ Trouble Restore	3330	501 - 504	ER	Power M \$\$ Trouble Restore
143	Door \$\$ Missing	1333	601 - 604	EM	Door \$\$ Missing
144	Door \$\$ Missing Restore	3333	601 - 604	EN	Door \$\$ Missing Restore
145	Door \$\$ Tamper	1341	601 - 604	ES	Door \$\$ Tamper
146	Door \$\$ Tamper Restore	3341	601 - 604	EJ	Door \$\$ Tamper Restore
147	Door \$\$ Cycled by User \$\$\$	1422	601 - 604; User 1 - 64	DG	Area \$ User \$\$ Cycle Door
148	Door \$\$ Granted by User \$\$\$	1422	601 - 604; User 1 - 64	DG	Area \$ User \$\$ Access Granted
149	Door \$\$ Denied by User \$\$\$	1421	601 - 604; User 1 - 64	DD	Area \$ User \$\$ Access Denied
150	Door \$\$ Granted by RTE		601 - 604	DE	Door \$\$ Granted by RTE
151	Door \$\$ Granted by REX		601 - 604	DX	Door \$\$ Granted by REX
152	Door \$\$ Denied by RTE, Secured		601 - 604	DK	Door \$\$ Denied by RTE, Secured
153	Door \$\$ Denied by REX, Secured		601 - 604	DK	Door \$\$ Denied by REX, Secured
154	Door \$\$ Left Open Restoral	3426	601 - 604	DH	Door \$\$ Closed Restoral
155	Door \$\$ Locked Automatically		601 - 604	DY	Door \$\$ Locked Automatically
156	Door \$\$ Unlocked Automatically		601 - 604	DO	Door \$\$ Unlocked Automatically
157	Door \$\$ Left Open Trouble	1426	601 - 604	DM	Door \$\$ Left Open Trouble
158	Door \$\$ Left Open Alarm	1426	601 - 604	DL	Door \$\$ Left Open Alarm
159	Door \$\$ Unlocked by User \$\$ \$		User 1 - 64; 601 (Schedule) 998 (A-Link)	DO	Area \$ User \$\$ Unlock Door
160	Door \$\$ locked by User \$\$\$		User 1 - 64; 601 (Schedule) 998 (A-Link)	DY	Area \$ User \$\$ Lock Door

Index	Event Description	CID Event Code	CID Point ID	SIA Event Code	String (Email / Codepad Display)
161	Door \$\$ Secured by User \$\$\$		User 1 - 64; 601 (Schedule) 998 (A-Link)	DC	Area \$ User \$\$ Secure Door
162	DoorAccessDeniedCardUser	1421	601 - 604; User 1 - 64	DV	Area \$ Card user \$\$ Access Denied
163	DoorDeniedtoUserSecured	1421	601 - 604; User 1 - 64	DZ	Area \$ User \$\$ Access Denied, Secured

Note: "\$" in the string will be replaced by matched number.

14 Access

This section describes the access codes used to assign privileges and access functions for User Code holders of the system. There are two types of access codes: the Installer Code and User Codes. Each of these codes allows specific access and operation of control panel functions.

14.1 Installer Code

Item	Location	Option	Default	New
Installer Code	0181		1	
	0182		2	
	0183		3	
	0184		4	

This code is used to access Installer's Programming Mode. The Installer Code can be up to four digits long. After the control panel is powered up, the Installer Code can disarm the system before any partition has arm/disarm operation. The next time the Installer Code is used enables access to Installer's Programming Mode.

Installer Code functions allow the installer to execute functions when the system is disarmed without the customer's Master Code.

Refer to

– *Installer Commands, page 32*

14.2 User Codes

Item	Location	Default	New	Authority Level Location	Default	New
User #01	0185	2		0189	10	
	0186	5				
	0187	8				
	0188	0				
User #02	0190 - 0193	15		0194	2	
User #03	0195 - 0198	15		0199	2	
User #04	0200 - 0203	15		0204	2	
User #05	0205 - 0208	15		0209	2	
User #06	0210 - 0213	15		0214	2	
User #07	0215 - 0218	15		0219	2	
User #08	0220 - 0223	15		0224	2	
User #09	0225 - 0228	15		0229	2	
User #10	0230 - 0233	15		0234	2	
User #11	0235 - 0238	15		0239	2	

Item	Location	Default	New	Authority Level Location	Default	New
User #12	0240 - 0243	15		0244	2	
User #13	0245 - 0248	15		0249	2	
User #14	0250 - 0253	15		0254	2	
User #15	0255 - 0258	15		0259	2	
User #16	0260 - 0263	15		0264	2	
User #17	0566 - 0569	15		0570	2	
User #18	0571 - 0574	15		0575	2	
User #19	0576 - 0579	15		0580	2	
User #20	0581 - 0584	15		0585	2	
User #21	0586 - 0589	15		0590	2	
User #22	0591 - 0594	15		0595	2	
User #23	0596 - 0599	15		0600	2	
User #24	0601 - 0604	15		0605	2	
User #25	0606 - 0609	15		0610	2	
User #26	0611 - 0614	15		0615	2	
User #27	0616 - 0619	15		0620	2	
User #28	0621 - 0624	15		0625	2	
User #29	0626 - 0629	15		0630	2	
User #30	0631 - 0634	15		0635	2	
User #31	0636 - 0639	15		0640	2	
User #32	0641 - 0644	15		0645	2	

Item	Location	Default	New	Authority Level Location	Default	New
User #33	10154 - 10157	15		10158	2	
User #34	10159 - 10162	15		10163	2	
User #35	10164 - 10167	15		10168	2	
User #36	10169 - 10172	15		10173	2	
User #37	10174 - 10177	15		10178	2	
User #38	10179 - 10182	15		10183	2	
User #39	10184 - 10187	15		10188	2	
User #40	10189 - 10192	15		10193	2	
User #41	10194 - 10197	15		10198	2	

Item	Location	Default	New	Authority Level Location	Default	New
User #42	10199 - 10202	15		10203	2	
User #43	10204 - 10207	15		10208	2	
User #44	10209 - 10212	15		10213	2	
User #45	10214 - 10217	15		10218	2	
User #46	10219 - 10222	15		10223	2	
User #47	10224 - 10227	15		10228	2	
User #48	10229 - 10232	15		10233	2	
User #49	10234 - 10237	15		10238	2	
User #50	10239 - 10242	15		10243	2	
User #51	10244 - 10247	15		10248	2	
User #52	10249 - 10252	15		10253	2	
User #53	10254 - 10257	15		10258	2	
User #54	10259 - 10262	15		10263	2	
User #55	10264 - 10267	15		10268	2	
User #56	10269 - 10272	15		10273	2	
User #57	10274 - 10277	15		10278	2	
User #58	10279 - 10282	15		10283	2	
User #59	10284 - 10287	15		10288	2	
User #60	10289 - 10292	15		10293	2	
User #61	10294 - 10297	15		10298	2	
User #62	10299 - 10302	15		10303	2	
User #63	10304 - 10307	15		10308	2	
User #64	10309 10310 - 10312	0 15		10313	3	

Authority Levels	Description
0	Arm/Disarm
1	Arm Only
2	Arm/Disarm and Arm/Disarm Reports
3	Arm Only and Arm Reports
4	Arm/Disarm and Code Required to Isolate
6	Arm/Disarm and Arm/Disarm Reports and Code Required to Isolate
8	Master Code and Arm/Disarm
10	Master Code and Arm/Disarm and Arm/Disarm Reports

Authority Levels	Description
12	Master Code and Arm/Disarm and Code Required to Isolate
14	Master Code and Arm/Disarm and Code Required to Isolate and Arm/Disarm Reports

Table 14.17: Authority Levels

The purpose of User Codes is to arm and disarm the system and to perform other specific functions. A Master Code holder can change or delete User Codes belongs to its partition at any time.

User Codes 1 to 64 can be one to four digits long, but all user codes should be the same length. Each User Code has its own priority level. More than one User Code can have the same priority level. The priority level controls the behavior of the code, such as allowing it to arm only, arm and disarm, or allow access to the Master Code functions. The installer can assign access to Master Code functions to multiple User Codes. The priority level for each User Code is programmed in the last location of the code.



Notice!

Only the installer can change the priority level.

There are 64 User Codes and 64 RF User Codes, RF User Codes can only be Remote Radio User Codes.

Special User Code is reported when any of these methods are used to arm or disarm the system:

- User Code 998: Arming and disarming using the A-Link Plus software.
- User Code 995: Arming remotely by telephone.
- User Code 000: Single button arming/disarming in AWAY Mode, STAY Mode 1, or STAY Mode 2.
- User Code 997: Automatic arming/disarming in AWAY Mode or STAY Mode 1.
- User Code 994: When Arm/Disarm Tracking on Power Up selected, if the system is armed when the system is powered down, the system returns to the armed state when the system is powered back up.
- User Code 999: After the control panel is powered up, if the installer code is the first code to use, the installer code can disarm the system before any partition has arm/disarm operation.

14.3 User Code Priority

The installer can assign one of ten different priority levels to a User Code. Each priority level allows or restricts a user from performing specific functions.

Arm/Disarm (Cycle/Lock/Unlock)

The user can arm and disarm the system. An Arming Report is sent only after a previous code with the ability to send a Disarming Report disarms the system.

The user can cycle/lock/unlock the door.

Arm Only

The user can arm the system but cannot disarm the system. An Arming Report is sent only after a previous code with the ability to send a Disarming Report disarms the system.

Arming/Disarming Reports

Arming/Disarming Reports are sent to the monitoring station when the user disarms and arms the system.

Code To Isolate

If one or more User Codes include this option, the method of standard isolating is disabled and only a User Code with this option in its priority level can isolate zones before arming the system using the Code to Isolate method.

**Notice!**

When priority level 4, 6, 12, or 14 is assigned to any User Codes, the Standard Isolating method no longer operates. Only User Codes with a priority level of 4, 6, 12, or 14 can isolate zones using the Code to Isolate method.

Master Code Functions**(Cycle/Lock/Unlock/Secure/Unsecure/Schedule)**

Master Code functions allow those users that have the appropriate priority level to perform certain supervisory level functions. You can use these functions only when the system is disarmed.

Master Code Functions also allow those users to cycle/unlock/lock/secure/unsecure the door.

Master Code Functions also allow those users to set up and operate schedules.

**Notice!**

The default Master Code (User Code 1) is 2580. It is possible to program multiple Master Codes

To access a Master Code function, enter the Master Code and press the corresponding function digit and the [AWAY] button.

Refer to

- *Master code functions, page 58*

15 Zone Information

15.1 Day Alarm Information

Item	Location	Option	Default	New
Day Alarm Zones	0265	1 = Zone 1 2 = Zone 2 4 = Zone 3 8 = Zone 4	0	

This location has four programming options. You can select any combination of the options by programming a single value. Calculate this value by adding the option bit numbers together.

Day Alarm allows some zones to be monitored when the system is disarmed. Indications are available at any of the programmable outputs, including the codepad buzzer (**remark:** do not change the defaulted settings in Location 460 to 465, otherwise, the Entry and Exit delay and Day Alarm beep operations will be affected). This function accommodates latching and non-latching Day Alarm Output Event Types.

When the system is armed in AWAY Mode, STAY Mode 1, or STAY Mode 2, zones programmed as Day Alarm Zones activate the sirens and report just as non-Day Alarm Zones do. When Day Alarm is activated, it ignores any zone Pulse Count settings programmed for that zone (that is, the zone Pulse Count is only relevant when the system is armed).

Example

You can set up a Day Alarm at the front door of a shop with a pressure mat or electronic beam that is activated when a customer enters the shop. When a customer walks on the pressure mat or breaks the electronic beam, the codepad buzzer beeps.

Remark:

If you wish an output to operate in response to a particular Day Alarm functionality, you shall program the output as one of the following selections:

- Day Alarm Resetting
- Day Alarm Latching

15.1.1 Day Alarm Resetting

An output that is programmed for Day Alarm Resetting operates when a zone programmed for Day Alarm is activated. The output is reset after the zone is resealed. This occurs only when the system is disarmed. Refer to **0,14 Day Alarm Resetting** in *Output Event Types*, page 148 for more information.

15.1.2 Day Alarm Latching

An output that is programmed for Day Alarm Latching operates when a zone programmed for Day Alarm is activated. The zone indicator and the latching output resets when [AWAY] is pressed. This occurs only when the system is disarmed. Refer to **0,15 Day Alarm Latching** in *Output Event Types*, page 148 for more information.

15.1.3 Day Alarm Operation

If a zone is programmed for Day Alarm, the zone can be isolated in the normal way so that it does not register as a Day Alarm Zone when the system is disarmed. You can use only Zones 1 to 4 as Day Alarm Zones.

You can program the STAY indicator to indicate whether Day Alarm is turned on or off by selecting Option 8 in Location 496 (refer to *Consumer Options 1, page 169*). When Day Alarm is on, the STAY indicator flashes once every 3 seconds.

You can program an output to mimic a zone for monitoring Zones 5 to 8. Refer to *Output Event Types, page 148*.

To turn Day Alarm on:

Press and hold [4] until three beeps sound.

To turn Day Alarm off:

Press and hold [4] until two beeps sound.

15.2

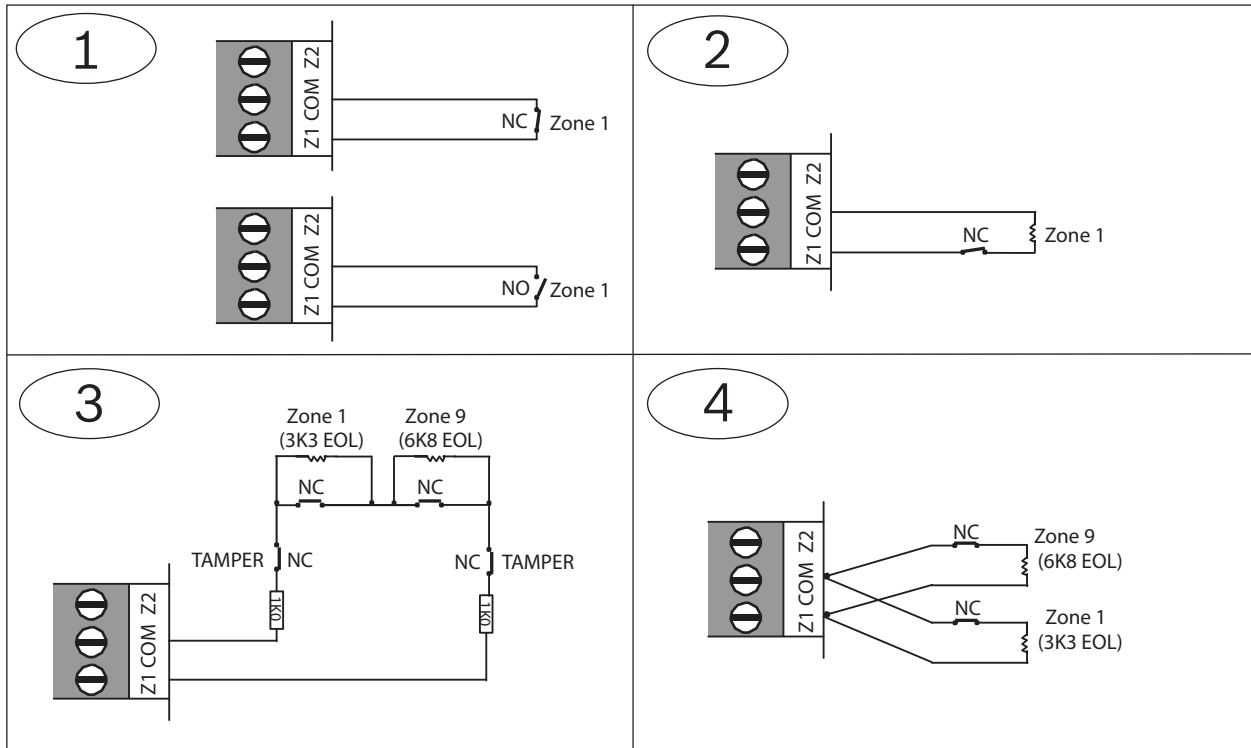
EOL Resistor Value

Location 266	
0	No EOL
1	1K (brown, black, red)
2	1K5 (brown, green, red)
3	2K2 (red, red, red)
4	3K3 (orange, orange, black, brown) 1%
5	3K9 (orange, white, red)
6	4K7 (yellow, violet, red)
7	5K6 (green, blue, red)
8	6K8 (blue, grey, black, brown) 1%
9	10K (brown, black, orange)
10	12K (brown, red, orange)
11	22K (red, red, orange)
12	Normal open
13	Reserved
14	Split EOL (3K3/6K8) with tamper (1K)
15	Split EOL 1% resistors

You can program the control panel for different end-of-line (EOL) resistor values. This is a global parameter that affects all zones simultaneously. This feature allows you to install the control panel at an existing site without changing the EOL resistors. This feature also increases the security of the system because eleven possible EOL resistor values can be used, which makes it extremely difficult to tamper with the system.

For No EOL, it is short as normal status and it is unsealed when the system activates an alarm.

Connections for EOL Resistors



Callout - Description
1 - Zone without resistor (Location 266 = 0 (No EOL), Location 266 = 12 (Normal open))
2 - Single Zone input (Location 266 = 1k, 1k5, 2k2, 3k3, 3k9, 4k7, 5k6, 6k8, 10k, 12k, 22k)
3 - Double Zone with tamper (Location 266 = 14 (Split EOL3K3 / 6K8 with tamper))
4 - Double Zone input (Location 266 = 15 (Split EOL 3k3 / 6k8))

15.3 B228 EOL Resistor Value

Program the EOL resistor value for B228 module in the Location 0389, which has the same options as the Location 0266.

When using the Alphanumeric code, go to the installer menu [4] Zone -> [6] EOL resistor, after pressing [#] for the Onboard EOL selection, please continue to select option for Ex EOL resistor as for the B228 EOL.

With the default No EOL option, it is short as normal status and it is unsealed with an alarm is activated.

Connections for B228 EOL Resistors

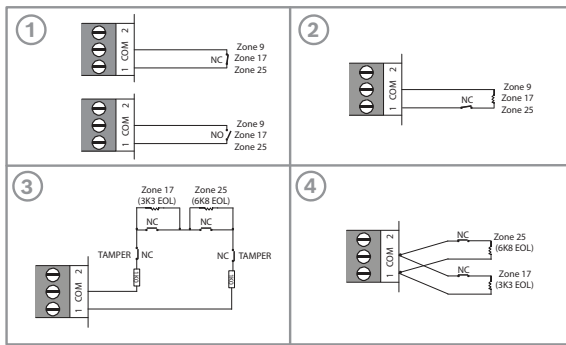


Figure 15.1: Sensor loops

1	Zone without resistor
2	Single zone input
3	Double zones with tamper
4	Double zones inputs

15.4 Zone Programming

The programming information for each zone is stored in six locations divided into three groups. The first three locations determine how the zone operates, the next two locations set up a number of zone options, and the last location stores the communicator reporting information for the zone.

Zone Operating Information

These locations store the Zone Type (for example, Delay-1, Instant, or 24-Hour), the Zone Pulse Count, and the Zone Pulse Count Time. The Zone Pulse Count specifies the number of times the zone must activate within the time specified in the Zone Pulse Count Time. Refer to *Zone Types*, page 117, *Zone Pulse Count*, page 120, and *Zone Pulse Count Time*, page 120 for more information.

Zone Options

These two locations allow you to select from a number of options. Refer to *Zone Options 1*, page 121 and *Zone Options 2*, page 122 for more information.

Zone Reporting Information

This information includes the locations for the Zone Report Options.

The Zone Report Options location enables you to specify how a zone reports to a base station receiver. Refer to *Zone Report Options*, page 123 for more information.

15.4.1 Zone Defaults

You can program zones as any zone types.

Zone 9 - 16 can only be used when the EOL resistor value is set as 14 or 15.

Item	Location	Default	New	Item	Location	Default	New
Zone #01				Zone #02			
Zone Type	0267	2		Zone Type	0274	1	
Zone Pulse Count	0268	0		Zone Pulse Count	0275	0	

Item	Location	Default	New	Item	Location	Default	New
Zone Pulse Count Time	0269	0		Zone Pulse Count Time	0276	0	
Zone Options 1	0270	1		Zone Options 1	0277	1	
Zone Options 2	0271	14		Zone Options 2	0278	14	
Reserved	0272			Reserved	0279		
Zone Report Options	0273	1		Zone Report Options	0280	1	
Zone #03				Zone #04			
Zone Type	0281	1		Zone Type	0288	1	
Zone Pulse Count	0282	0		Zone Pulse Count	0289	0	
Zone Pulse Count Time	0283	0		Zone Pulse Count Time	0290	0	
Zone Options 1	0284	1		Zone Options 1	0291	1	
Zone Options 2	0285	14		Zone Options 2	0292	14	
Reserved	0286			Reserved	0293		
Zone Report Options	0287	1		Zone Report Options	0294	1	
Zone #05				Zone #06			
Zone Type	0295	0		Zone Type	0302	0	
Zone Pulse Count	0296	0		Zone Pulse Count	0303	0	
Zone Pulse Count Time	0297	0		Zone Pulse Count Time	0304	0	
Zone Options 1	0298	1		Zone Options 1	0305	1	
Zone Options 2	0299	14		Zone Options 2	0306	14	
Reserved	0300			Reserved	0307		
Zone Report Options	0301	1		Zone Report Options	0308	1	
Zone #07				Zone #08			
Zone Type	0309	0		Zone Type	0316	0	
Zone Pulse Count	0310	0		Zone Pulse Count	0317	0	
Zone Pulse Count Time	0311	0		Zone Pulse Count Time	0318	0	
Zone Options 1	0312	1		Zone Options 1	0319	1	
Zone Options 2	0313	14		Zone Options 2	0320	12	
Reserved	0314			Reserved	0321		
Zone Report Options	0315	1		Zone Report Options	0322	1	
Zone #09				Zone #10			

Item	Location	Default	New	Item	Location	Default	New
Zone Type	0323	15		Zone Type	0330	15	
Zone Pulse Count	0324	0		Zone Pulse Count	0331	0	
Zone Pulse Count Time	0325	0		Zone Pulse Count Time	0332	0	
Zone Options 1	0326	1		Zone Options 1	0333	1	
Zone Options 2	0327	14		Zone Options 2	0334	14	
Reserved	0328			Reserved	0335		
Zone Report Options	0329	1		Zone Report Options	0336	1	
Zone #11				Zone #12			
Zone Type	0337	15		Zone Type	0344	15	
Zone Pulse Count	0338	0		Zone Pulse Count	0345	0	
Zone Pulse Count Time	0339	0		Zone Pulse Count Time	0346	0	
Zone Options 1	0340	1		Zone Options 1	0347	1	
Zone Options 2	0341	14		Zone Options 2	0348	14	
Reserved	0342			Reserved	0349		
Zone Report Options	0343	1		Zone Report Options	0350	1	
Zone #13				Zone #14			
Zone Type	0351	15		Zone Type	0358	15	
Zone Pulse Count	0352	0		Zone Pulse Count	0359	0	
Zone Pulse Count Time	0353	0		Zone Pulse Count Time	0360	0	
Zone Options 1	0354	1		Zone Options 1	0361	1	
Zone Options 2	0355	14		Zone Options 2	0362	14	
Reserved	0356			Reserved	0363		
Zone Report Options	0357	1		Zone Report Options	0364	1	
Zone #15				Zone #16			
Zone Type	0365	15		Zone Type	0372	15	
Zone Pulse Count	0366	0		Zone Pulse Count	0373	0	
Zone Pulse Count Time	0367	0		Zone Pulse Count Time	0374	0	
Zone Options 1	0368	1		Zone Options 1	0375	1	
Zone Options 2	0369	14		Zone Options 2	0376	14	
Reserved	0370			Reserved	0377		

Item	Location	Default	New	Item	Location	Default	New
Zone Report Options	0371	1		Zone Report Options	0378	1	

Item	Location	Default	New	Item	Location	Default	New
Zone #17				Zone #18			
Zone Type	9934	15		Zone Type	9941	15	
Zone Pulse Count	9935	0		Zone Pulse Count	9942	0	
Zone Pulse Count Time	9936	0		Zone Pulse Count Time	9943	0	
Zone Options 1	9937	1		Zone Options 1	9944	1	
Zone Options 2	9938	14		Zone Options 2	9946	14	
Reserved	9939	0		Reserved	9946	0	
Zone Report Options	9940	1		Zone Report Options	9947	1	
Zone #19				Zone #20			
Zone Type	9948	15		Zone Type	9955	15	
Zone Pulse Count	9949	0		Zone Pulse Count	9956	0	
Zone Pulse Count Time	9950	0		Zone Pulse Count Time	9957	0	
Zone Options 1	9951	1		Zone Options 1	9958	1	
Zone Options 2	9952	14		Zone Options 2	9959	14	
Reserved	9953	0		Reserved	9960	0	
Zone Report Options	9954	1		Zone Report Options	9961	1	
Zone #21				Zone #22			
Zone Type	9962	15		Zone Type	9969	15	
Zone Pulse Count	9963	0		Zone Pulse Count	9970	0	
Zone Pulse Count Time	9964	0		Zone Pulse Count Time	9971	0	
Zone Options 1	9965	1		Zone Options 1	9972	1	
Zone Options 2	9966	14		Zone Options 2	9973	14	
Reserved	9967	0		Reserved	9974	0	
Zone Report Options	9968	1		Zone Report Options	9975	1	
Zone #23				Zone #24			
Zone Type	9976	15		Zone Type	9983	15	
Zone Pulse Count	9977	0		Zone Pulse Count	9984	0	

Item	Location	Default	New	Item	Location	Default	New
Zone Pulse Count Time	9978	0		Zone Pulse Count Time	9985	0	
Zone Options 1	9979	1		Zone Options 1	9986	1	
Zone Options 2	9980	14		Zone Options 2	9987	14	
Reserved	9981	0		Reserved	9988	0	
Zone Report Options	9982	1		Zone Report Options	9989	1	
Zone #25				Zone #26			
Zone Type	9990	15		Zone Type	9997	15	
Zone Pulse Count	9991	0		Zone Pulse Count	9998	0	
Zone Pulse Count Time	9992	0		Zone Pulse Count Time	9999	0	
Zone Options 1	9993	1		Zone Options 1	10000	1	
Zone Options 2	9994	14		Zone Options 2	10001	14	
Reserved	9995	0		Reserved	10002	0	
Zone Report Options	9996	1		Zone Report Options	10003	1	
Zone #27				Zone #28			
Zone Type	10004	15		Zone Type	10011	15	
Zone Pulse Count	10005	0		Zone Pulse Count	10012	0	
Zone Pulse Count Time	10006	0		Zone Pulse Count Time	10013	0	
Zone Options 1	10007	1		Zone Options 1	10014	1	
Zone Options 2	10008	14		Zone Options 2	10015	14	
Reserved	10009	0		Reserved	10016	0	
Zone Report Options	10010	1		Zone Report Options	10017	1	
Zone #29				Zone #30			
Zone Type	10018	15		Zone Type	10025	15	
Zone Pulse Count	10019	0		Zone Pulse Count	10026	0	
Zone Pulse Count Time	10020	0		Zone Pulse Count Time	10027	0	
Zone Options 1	10021	1		Zone Options 1	10028	1	
Zone Options 2	10022	14		Zone Options 2	10029	14	
Reserved	10023	0		Reserved	10030	0	
Zone Report Options	10024	1		Zone Report Options	10031	1	
Zone #31				Zone #32			

Item	Location	Default	New	Item	Location	Default	New
Zone Type	10032	15		Zone Type	10039	15	
Zone Pulse Count	10033	0		Zone Pulse Count	10040	0	
Zone Pulse Count Time	10034	0		Zone Pulse Count Time	10041	0	
Zone Options 1	10035	1		Zone Options 1	10042	1	
Zone Options 2	10036	14		Zone Options 2	10043	14	
Reserved	10037	0		Reserved	10044	0	
Zone Report Options	10038	1		Zone Report Options	10045	1	

Item	Location	Default	New	Item	Location	Default	New
Zone #129 (Door 1 zone)				Zone #130 (Door 2 zone)			
Zone Type	13252	0		Zone Type	13259	0	
Zone Pulse Count	13253	0		Zone Pulse Count	13260	0	
Zone Pulse Count Time	13254	0		Zone Pulse Count Time	13261	0	
Zone Options 1	13255	1		Zone Options 1	13262	1	
Zone Options 2	13256	14		Zone Options 2	13263	14	
Reserved	13257			Reserved	13264		
Zone Report Options	13258	1		Zone Report Options	13265	1	
Zone #131 (Door 3 zone)				Zone #132 (Door 4 zone)			
Zone Type	13266	0		Zone Type	13273	0	
Zone Pulse Count	13267	0		Zone Pulse Count	13274	0	
Zone Pulse Count Time	13268	0		Zone Pulse Count Time	13275	0	
Zone Options 1	13269	1		Zone Options 1	13276	1	
Zone Options 2	13270	14		Zone Options 2	13277	14	
Reserved	13271			Reserved	13278		
Zone Report Options	13272	1		Zone Report Options	13279	1	

15.4.2

Zone Types

The zone types are listed in the table below.

Zone Type	Description
0	Instant
1	Handover

Zone Type	Description
2	Delay-1
3	Delay-2
4	Reserved
5	Reserved
6	24-Hour Medical
7	24-Hour Panic
8	24-Hour Holdup
9	24-Hour Tamper
10	Reserverd
11	Keyswitch
12	24-Hour Burglary
13	24-Hour Fire
14	Chime Only
15	Not Used

0 – Instant Zone

When the Country Code is set as Australia (refer to *Country Codes, page 87*), an Instant Zone (Contact ID Event Code 130) immediately sounds the sirens and sends the zone alarm reports if it is unsealed after the Exit Timer expires.

Arming Report is sent after the Exit Timer expires.

If an Instant Zone is not restored when the time the system is disarmed, a Zone Restore Report is automatically sent to the receiving party.

1 – Handover Zone

A Handover Zone (Contact ID Event Code 130) acts as an Instant Zone if it is activated by itself. If a Handover Zone is activated after a Delay Zone, the remaining Delay Time is handed over from the Delay Zone to the Handover Zone.

Handover can be sequential or non-sequential. The default settings is sequential handover. You can disable sequential handover by disabling Option 8 in Location 494 (refer to *System Options 3, page 167*).

Handover Zone is not restored when the system is disarmed, a Zone Restore Report is automatically sent to the receiving party.

2 – Delay-1 Zone

A Delay-1 Zone (Contact ID Event Code 130) has a delay time determined by the value in Locations 466 and 467 (refer to *Entry Time 1, page 160*). After Entry Time expires, the system activates an alarm.

If a Delay-1 Zone is not restored when the system is disarmed, a Zone Restore Report is automatically sent to the receiving party.

3 – Delay-2 Zone

A Delay-2 Zone (Contact ID Event Code 130) has a delay time determined by the value in Locations 468 and 469 (refer to *Entry Time 2, page 160*). After Entry Time expires, the system activates an alarm.

If a Delay-2 Zone is not restored when the system is disarmed, a Zone Restore Report is automatically sent to the receiving party.

6 – 24-Hour Medical Zone

A 24-Hour Medical Zone (Contact ID Event Code 100) is always ready to activate the horn speaker, bell, and strobe, whether the system is armed or disarmed. A Medical Report is transmitted to the base station receiver. A 24-Hour Medical Zone does not send a Restore Report until the zone is restored.

7 – 24-Hour Panic Zone

A 24-Hour Panic Zone (Contact ID Event Code 120) is always ready to activate the horn speaker, bell, and strobe, whether the system is armed or disarmed. A Panic Report is transmitted to the base station receiver. A 24-Hour Panic Zone does not send a Restore Report until the zone is restored.

8 – 24-Hour Holdup Zone

A 24-Hour Holdup Zone (Contact ID Event Code 122) is always ready to activate the horn speaker, bell, and strobe, whether the system is armed or disarmed. If you want the holdup alarm to be silent, select Option 4 in the first Zone Options location (refer to *Zone Options 1, page 121*). A 24-Hour Holdup Zone does not send a Restore Report until the zone is restored.

9 – 24-Hour Tamper Zone

A 24-Hour Tamper Zone (Contact ID Event Code 137) is always ready to activate the horn speaker, bell, and strobe, whether the system is armed or disarmed. A 24-Hour Tamper zone does not send a Restore Report until the zone is restored.

11 – Keyswitch Zone

Use a Keyswitch Zone to connect a keyswitch to operate the system. The zone number is reported as a User Code when arming and disarming using this method of operation, refer to *Keyswitch Zone Options, page 123* for more information. (Contact ID Event Code 409 for Keyswitch Away Arm and Keyswitch Disarm, 442 for Keyswitch Stay 1 Arm).

12 – 24-Hour Burglary Zone

A 24-Hour Burglary Zone (Contact ID Event Code 133) is always ready to activate the horn speaker, bell, and strobe, whether the system is armed or disarmed. A 24-Hour Burglary zone does not send a Restore Report until the zone is restored.

13 – 24-Hour Fire Zone

A 24-Hour Fire Zone (Contact ID Event Code 110) is always ready to activate the horn speaker, bell, and strobe, whether the system is armed or disarmed. A distinct fire sound is emitted through the horn speaker to indicate this type of alarm. This fire sound is completely different from the burglary sound. A 24-Hour Fire zone does not send a Restore Report until the zone is restored.

14 – Chime Zone

A Chime Zone is not a burglary zone. It can never sound the sirens or transmit reports. Its purpose is to map the zone to a programmable output (refer to 4,5 Global Chime in *Output Event Types, page 148*) to indicate if the zone is sealed or unsealed.

Chime zones require EOL resistors and are registered at a codepad. These zones do not affect the operation of forced arming.

15 – Zone Not Used

If a zone is not used, program the zone type location to 15. An EOL resistor is not required if this zone type is used. This zone type never sounds the sirens or transmits the reports.

15.4.3 Zone Pulse Count

Zone pulse count is the number of times a zone must be activated before the zone registers an alarm. The number can vary from 0 to 15. The zone pulse count value is relative to the time frame (that is, the number of pulses that must be present during a particular time frame). Zone Pulse Count = 0, means the Zone Pulse Count function is disabled. Refer to *Zone Pulse Count Time*, page 120 for more information.



Notice!

A zone that is programmed with a pulse count activates an alarm when it is continuously unsealed for 10 sec. A 24-Hour Fire Zone programmed with a pulse count activates an alarm when it is continuously unsealed for 30 sec.

Zone Pulse Count Handover

Zone pulse count handover operates only with Zone Pulse Count Time options 8 to 15. Any zone that registers one active pulse automatically increments any other zone pulse count that already registered at least one activate pulse during its respective time. To enable this feature, select Option 4 in Location 494 (refer to *System Options 3*, page 167).



Notice!

24-Hour Zones cannot receive any handover pulses from other zones. 24-Hour Zones can handover pulses to other zones.

15.4.4 Zone Pulse Count Time

Zone pulse count time is the time frame or period over which the programmed number of pulses must register to activate an alarm.

20 ms Option	Loop Response Time (sec)	150 ms Option	Loop Response Time (sec)
0	0.5	8	20
1	1	9	30
2	2	10	40
3	3	11	50
4	4	12	60
5	5	13	90
6	10	14	120
7	15	15	200

Table 15.18: Zone Pulse Count Times

For zone pulse count time, options 0 to 7 have a zone loop response time of 20 ms and options 8 to 15 have a zone loop response time of 150 ms. Loop response time is the length of time a zone must be unsealed before it can register as a valid pulse.

Inertia sensors should use options 0 to 7 and PIR detectors should use options 8 to 15.

15.4.5

Zone Options 1

This location has four programming options. You can select any combination of the options by programming a single value. Calculate this value by adding the option bit numbers together.

Option	Description
1	Lockout Siren/Lockout Report
2	Delay Alarm reporting
4	Silent Alarm
8	Sensor Watch

1 – Lockout Siren and Lockout Report

Lockout refers to certain activations per arming cycle (that is, a zone programmed for Lockout can activate the sirens or communication module for certain times as programmed). The next time the system is armed, the zone can activate the sirens and reports once more. Restore signals are sent when the system is disarmed.

Lockout Siren and Lockout Report are separate for each zone. If a zone's siren or report is locked out, the other zone's siren or report still can be activated.

Use Location 379 to set the number of times the siren is allowed to activate before it is locked out (refer to *Swinger Shutdown Count for Siren*, page 126).

Use Location 380 to set the number of times the communication module is activated to send reports before lockout takes effect (refer to *Swinger Shutdown Count for Report*, page 126).

Use Location 492 to resend the Zone Reports when the report is unlocked out as Smart Lockout Allowed in *System Options 1*, page 165.

When the smart lockout is allowed, the Lockout Report becomes unlocked and sends Alarm Reports if the locked zone is activated again before the Siren Running Time (refer to *Siren Run Time*, page 162a) is expired and if any other zone is activated

2 – Delay Alarm Reporting

Select this option to allow the reporting of alarms on selected zones to be delayed so that a user can enter a code to cancel alarms that are not required to report. All sounding devices (horn speaker, strobe, and bell outputs) operate as soon as the alarm occurs, but the communication module does not operate until the delay time programmed in Locations 474 and 475 expires (refer to *Delay Alarm Reporting Time*, page 161).

During the same arming cycle, only the first Zone Alarm Report can be delayed.

4 – Silent Alarm

Select this option to program a zone as silent. A silent zone does not activate the horn speaker, bell, or strobe outputs. It activates the Silent Alarm output. The report and all other programmable outputs function according to the parameters programmed for the zone.

8 – Sensor Watch

Sensor watch allows the control panel to recognize when detection devices might have stopped working. This feature monitors the operation of a zone over the time period programmed in Locations 476 and 477 (refer to *Sensor Watch Time*, page 161).

This value specifies how many 24-hour periods a zone can remain continuously sealed before it registers as a Sensor Watch fault. The number of hours required to fulfill these 24-hour periods is calculated only when the system is disarmed. Every time the system is armed in the AWAY Mode, STAY Mode 1, or STAY Mode 2, the Sensor Watch Timer pauses its count. The Sensor Watch Timer continues its count the next time the system is disarmed.

Example

If the Sensor Watch Time is programmed for 2 days and the premises is armed for 12 hours and disarmed for 12 hours each day, it takes 4 days before a zone can register a Sensor Watch fault.

15.4.6

Zone Options 2

This location has four programming options. You can select any combination of the options by programming a single value. Calculate this value by adding the option bit numbers together.

Option	Description
1	Isolate in STAY Mode 1
2	Zone Isolation Allowed
4	Forced Arming Allowed
8	Zone Restore Report

1 – Isolate in STAY Mode 1

If this option is selected, the zone can be automatically isolated when the system is armed in STAY Mode 1.

If this option is not selected and the system is armed in STAY Mode 1, the zone activates an alarm when activated as it normally would in AWAY Mode.

You can specify a global entry time for all zones, except for 24-Hour Zones, when the system is armed in STAY Mode 1. You program this time in Locations 472 and 473 (refer to *Entry Guard Time for STAY Mode*, page 161). The Entry Guard Timer overrides the delay time programmed for a Delay Zone. If you program the Entry Guard Timer as 0, each zone acts according to its programmed zone type.

Refer to *Arming the System in STAY Mode 1*, page 40 for more information.

2 – Zone Isolation Allowed

If this option is selected, the operator can isolate the zone before arming the system. If this option is not selected, the zone cannot be manually isolated. When a zone is manually isolated, a Zone Bypass Report (Contact ID Event Code 573) is sent. Refer to *Isolating zones*, page 43 for more information.

When a zone is automatically isolated in STAY Mode, a Zone Bypass Report is not sent.

When isolating 24-Hour Zones, the system automatically sends a Zone Bypass Report when the zone is selected to be isolated. All non-24-Hour zones send a Bypass Report only when the system is armed.

4 – Forced Arming Allowed

If this option is selected, the system can be armed with the zone unsealed. If this option is not selected, the system does not allow the User Code holder to arm the system until the zone is sealed or manually isolated. Refer to *Isolating zones*, page 43 for more information.

8 – Zone Restore Report

If this option is selected, the zone sends Restore Reports when the zone is restored. If this option is not selected, the zone does not send Restore Reports when the zone is restored. If a non-24-Hour zone is not restored when the system is disarmed, the system automatically sends a Zone Restore Report for that zone. All 24-Hour zones send a Zone Restore Report only when the zone is restored.

15.4.7 Zone Report Options

By default, a zone reports only to Receiver 1. The table below lists the reporting options for the zone.

Option	Description
0	No reports allowed
1	Report to Receiver 1
2	Report to Receiver 2
3	Report to Receiver 3
4	Report to Receiver 4
5	Report to Receiver 1,2,3,4
6	Report to Receiver 1 (2,3,4 backup)
7	Report to Receiver 1 (2 backup) and Receiver 3 (4 backup)

15.4.8 Keyswitch Zone Options

The table below lists the options available to Keyswitch Zones. If you program a zone as a keyswitch input (Zone Type 11), program the selected Keyswitch Zone options in the location normally used for Zone Options 1.

Option	Description
0	Latching arm and disarm in AWAY Mode
1	Latching arm in AWAY Mode
2	Latching disarm from AWAY Mode, STAY Mode1, or STAY Mode 2
4	Latching arm and disarm in STAY Mode 1
5	Latching arm in STAY Mode 1
6	Latching disarm from STAY Mode 1 or STAY Mode 2
8	Momentary arm and disarm in AWAY Mode
9	Momentary arm in AWAY Mode
10	Momentary disarm from AWAY Mode, STAY Mode1, or STAY Mode 2
12	Momentary arm and disarm in STAY Mode 1
13	Momentary arm in STAY Mode 1
14	Momentary disarm from STAY Mode 1 or STAY Mode 2

0 – Latching Arm and Disarm in AWAY Mode

The system is armed or disarmed from AWAY Mode when using the latching keyswitch input.

1 – Latching Arm in AWAY Mode

The system is armed in AWAY Mode when using the latching keyswitch input. Disarming the system is not permitted from the Keyswitch Zone.

2 – Latching Disarm from AWAY Mode, STAY Mode 1, or STAY Mode 2

The system is disarmed from AWAY Mode, STAY Mode 1, or STAY Mode 2 when using the latching keyswitch input. Arming the system is not permitted from the Keyswitch Zone.

4 – Latching Arm and Disarm in STAY Mode 1

The system is armed or disarmed in STAY Mode 1 when using the latching keyswitch input. Arming and disarming the system in AWAY Mode is not permitted from the Keyswitch Zone.

5 – Latching Arm in STAY Mode 1

The system is armed in STAY Mode 1 when using the latching keyswitch input. Arming the system in AWAY Mode or disarming the system is not permitted from the Keyswitch Zone.

6 – Latching Disarm from STAY Mode 1 or STAY Mode 2

The system is disarmed from STAY Mode 1 or STAY Mode 2 when using the latching keyswitch input. Arming the system in STAY Mode 1 or STAY Mode 2, or arming and disarming the system in AWAY Mode is not permitted from the Keyswitch Zone.

8 – Momentary Arm and Disarm in AWAY Mode

The system is armed or disarmed from AWAY Mode when using the momentary keyswitch input.

9 – Momentary Arm in AWAY Mode

The system is armed in AWAY Mode when using the momentary keyswitch input. Disarming the system is not permitted from the Keyswitch Zone.

10 – Momentary Disarm from AWAY Mode, STAY Mode 1, or STAY Mode 2

The system is disarmed from either AWAY Mode, STAY Mode 1, or STAY Mode 2 when using the momentary keyswitch input. Arming the system is not permitted from the Keyswitch Zone.

12 – Momentary Arm and Disarm in STAY Mode 1

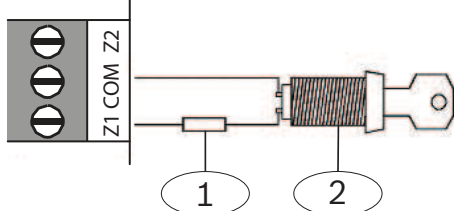
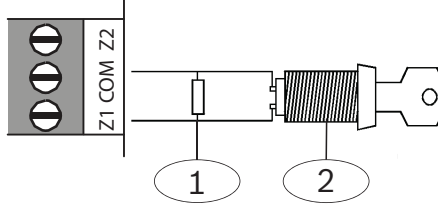
The system is armed or disarmed in STAY Mode 1 when using the momentary keyswitch input. Arming and disarming the system in AWAY Mode is not permitted from the Keyswitch Zone.

13 – Momentary Arm in STAY Mode 1

The system is armed in STAY Mode 1 when using the momentary keyswitch input. Arming the system in AWAY Mode or disarming the system is not permitted from the Keyswitch Zone.

14 – Momentary Disarm from STAY Mode 1 or STAY Mode 2

The system is disarmed from STAY Mode 1 or STAY Mode 2 when using the momentary keyswitch input. Arming the system in STAY Mode 1 or STAY Mode 2, or arming and disarming the system from AWAY Mode is not permitted from the Keyswitch Zone.

Wiring Diagram for Keyswitch Zone	Wiring Diagram for Keyswitch Zone Using Split EOL with Tamper
	
1 – EOL	1 – EOL

Wiring Diagram for Keypress Zone	Wiring Diagram for Keypress Zone Using Split EOL with Tamper
2 – Keypress (Momentary/Toggle)	2 – Keypress (Momentary/Toggle)

Table 15.19: Wiring Diagram for Keypress Zone

15.4.9 Zone Source

Item	Location	Default	New	Item	Location	Default	New
Zone 1 Source	0754	0		Zone 2 Source	0755	0	
Zone 3 Source	0756	0		Zone 4 Source	0757	0	
Zone 5 Source	0758	0		Zone 6 Source	0759	0	
Zone 7 Source	0760	0		Zone 8 Source	0761	0	
Zone 9 Source	0762	0		Zone 10 Source	0763	0	
Zone 11 Source	0764	0		Zone 12 Source	0765	0	
Zone 13 Source	0766	0		Zone 14 Source	0767	0	
Zone 15 Source	0768	0		Zone 16 Source	0769	0	

Item	Location	Default	New	Item	Location	Default	New
Zone 17 Source	10062	2		Zone 18 Source	10063	2	
Zone 19 Source	10064	2		Zone 20 Source	10065	2	
Zone 21 Source	10066	2		Zone 22 Source	10067	2	
Zone 23 Source	10068	2		Zone 24 Source	10069	2	
Zone 25 Source	10070	2		Zone 26 Source	10071	2	
Zone 27 Source	10072	2		Zone 28 Source	10073	2	
Zone 29 Source	10074	2		Zone 30 Source	10075	2	
Zone 31 Source	10076	2		Zone 32 Source	10077	2	

Item	Option
Zone Source	0 = Onboard 1 = RF 2 = B228

Zone source defines the zone/input is onboard zone, RF zone or expanded B228 zone. Defaulted zone source for zone 1 - 16 is Onboard; for zone 17 - 32 is B228; Zone 129 - 132 is fixed to the door as the source.

15.5 Swinger Shutdown Count for Siren

Item	Location	Option	Default	New
Swinger Shutdown Count For Siren	0379	1 – 15 = Number of times siren operates until lockout	3	

Location 379 determines the number of times the sirens can be activated before lockout options take effect. This location has no effect unless you program at least one zone for lockout siren. Refer to *Zone Options 1, page 121* for more information.

Only alarms activated from zone inputs can increment the Swinger Shutdown Counter.

Alarms such as Codepad Panic, Access Denied, and other system alarms do not affect the Swinger Shutdown Count.

Lockout Siren is separate for each zone, If a zone's siren is locked out, another zone's siren can still be activated.

Example

Zone1 and 2 are programmed for Lockout Siren with a Swinger Shutdown Count of 2. If Zone 1 activates an alarm, the Swinger Shutdown Count is incremented by one after the end of Siren Run Time from 0 to a swinger shutdown count of 1.

After the Siren Run Time is reset from the previous alarm, Zone 2 activates an alarm and activates the sirens. After the sirens are reset, the swinger shutdown count for Zone 2 is incremented to 1 and the swinger shutdown count for Zone1 is still 1.

If Zone 1 activates an alarm again after the sirens are reset from Zone 2, the Swinger Shutdown Count for Zone 1 is incremented to 2, which locks out Zone 1 only from sounding the sirens until the system is reset, armed or disarmed.

At this point, Zone 1's Swinger Shutdown Count for Sirens is reset to 0.

15.6 Swinger Shutdown Count for Report

Item	Location	Option	Default	New
Swinger Shutdown Count For Report	0380	1 – 15 = Number of times report operates until lockout	6	

Location 380 determines the number of times the zone alarm report can be activated before lockout options take effect. This location has no effect unless you program at least one zone for lockout report. Refer to *Zone Options 1, page 121* for more information.

Only alarms activated from zone inputs can increment the Swinger Shutdown Counter.

Alarms such as Codepad Panic, Code Retries, and other system alarms do not affect the Swinger Shutdown Count.

Lockout Report is separate for each zone. If a zone's report is locked out, another zone's report can still be activated. Each zone has a standalone Swinger Shutdown Count for Report. This counter increases by 1 when a zone reports a new alarm or tamper event.

Use Location 492 to set smart lockout. When a zone report is locked out, if smart lockout is enabled, lockout events on this zone are not reported if no alarm is sounding. If an alarm is ongoing, events are reported as configured.



Notice!

If Lockout Report is enabled for any zone, the last restore signal is not transmitted until the system is disarmed.

Example

Zones 1 and 2 are programmed for lockout report with a Swinger Shutdown Count of 6. If Zone 1 activates an alarm, the Swinger Shutdown Count increments to 1 when the control panel sends the report.

If Zone 1 reactivates the report, the Swinger Shutdown Count is incremented to 2. If Zone 1 reactivates the report three more times, the Swinger Shutdown Count is 5.

If Zone 2 activates an alarm, the Swinger Shutdown Count for Zone 2 is incremented to 1. Swinger Shutdown Count for Zone 1 is still 5. If Zone 1 reactivates again, it locks out Zone 1 from activating the report. When smart lockout is enabled, if any zone activates the siren before siren running time is expired, Zone 1 reactivates and can still send a report.

15.7 STAY Mode 2 Automatically Bypass Zones

STAY Mode 2 Automatically Bypass Zones can be programmed in Location 381 - 389. It can also be done by master code function.

Refer to *Setting STAY Mode 2 Bypass Zones*, page 55 for more information.

Item	Location	Option	Default	New	
STAY Mode 2 Automatically Bypass Zones	0381	1 = Zone 1 2 = Zone 2	4 = Zone 3 8 = Zone 4	0	
	0382	1 = Zone 5 2 = Zone 6	4 = Zone 7 8 = Zone 8	0	
	0383	1 = Zone 9 2 = Zone 10	4 = Zone 11 8 = Zone 12	0	
	0384	1 = Zone 13 2 = Zone 14	4 = Zone 15 8 = Zone 16	0	
	0385	1 = Zone 17 2 = Zone 18	4 = Zone 19 8 = Zone 20	0	
	0386	1 = Zone 21 2 = Zone 22	4 = Zone 23 8 = Zone 24	0	
	0387	1 = Zone 25 2 = Zone 26	4 = Zone 27 8 = Zone 28	0	
	0388	1 = Zone 29 2 = Zone 30	4 = Zone 31 8 = Zone 32	0	
	13280	1 = Zone 129 2 = Zone 130	4 = Zone 131 8 = Zone 132	0	

15.8 Zone Status Reporting Options

Item	Location	Option	Default	New
Zone Status Reporting Options	0392	0 = No Zone status reports allowed 1 = Report to Receiver 1 2 = Report to Receiver 2 3 = Report to Receiver 3 4 = Report to Receiver 4	1	

Item	Location	Option	Default	New
		5 = Report to Receiver 1,2,3,4 6 = Report to Receiver 1 (2,3,4 backup) 7 = Report to Receiver 1 (2 backup) and Receiver 3 (4 backup)		

This location is set by default to report only to Receiver 1.

16 RF Information

To use the RF function, you need to select RF receiver in location 395, program other RF parameters in this section, and add RF devices, RF keyfobs and RF repeaters.

16.1 RF Supervision Time

Item	Location	Option	Default	New
RF Supervision Time	0393	0 = Disable 2 = 2 hours 3 = 4 hours 4 = 12 hours 5 = 24 hours 6 = 48 hours 7 = 72 hours	4	

An RF Supervision Failure Report (Contact ID Event Code 381) is sent to the base station receiver when the wireless receiver has not received a signal from any RF wireless zone during the RF Supervision Time. This report continues to be sent (according to the frequency of the RF Supervision Time) until the fault is corrected.

To clear the fault and stop additional reporting: Unseal and reseal the zone that registered the fault.



Notice!

If RF Supervision Failure Reports are not required, program Location 393 as 0.

16.2 Anti-Jamming Sensitivity

Item	Location	Option	Default	New
RADION Anti-Jamming Sensitivity	0394	0 = Disable 15 = Most Sensitive	12	

This parameter configures the anti-jamming sensitivity on the RADION receiver.

The RADION receiver will continually monitor the jamming status of every system transmitter to ensure reliable system communications.

16.3 RF Receiver

Item	Location	Option	Default	New
RF Receiver	0395	0 = Not used 1 = Use RADION receiver B810 2 = Use WE800EV2	0	

The control panel supports both RADION and WE800EV2 receivers, but only one receiver can be used in one system.

16.4 RF Options

Item	Location	Option	Default	New
RF Options	0396	1 = Siren Sound On RF Receiver Fail 2 = RF Receiver Jam/Tamper Siren Alarm 4 = Unseal Zone That Fail Monitor	0	

1 - Sound Siren on RF Receiver Fail

If this option is selected, the horn speaker, piezo, and strobe operate when the RF receiver fails to communicate with the control panel.

2 - Sound Siren on RF Tamper/Jamming

If this option is selected, the horn speaker, piezo, and strobe operate when the tamper switch on the receiver becomes open circuit or the receiver picks up jamming signals from an RF device.

4 - Unseal Zone that Fails Supervision

If a wireless zone device fails to send a signal within the RF Supervision Time programmed in Location393, the codepad zone indicator lights as unsealed.

16.5 RFID

16.5.1 RF Keyfob RFID

RFID is a 9-digit numbers you can find on the keyfob. Control panel stores eight digits for each keyfob ID. Last digit of keyfob ID is a checksum.

Remark:

The 9th digit is not needed when programming RFID's for keyfobs or devices in the RFID locations.

You need all digits when programming keyfobs / RF devices and Repeaters via codepad using Installer Code and Master Code learn processes.

Item	Location	Default	New	Item	Location	Default	New
Keyfob #01	1500 - 1507	0		Keyfob #02	1510 - 1517	0	
Keyfob #03	1520 - 1527	0		Keyfob #04	1530 - 1537	0	
Keyfob #05	1540 - 1547	0		Keyfob #06	1550 - 1557	0	
Keyfob #07	1560 - 1567	0		Keyfob #08	1570 - 1577	0	
Keyfob #09	1580 - 1587	0		Keyfob #10	1590 - 1597	0	
Keyfob #11	1600 - 1607	0		Keyfob #12	1610 - 1617	0	
Keyfob #13	1620 - 1627	0		Keyfob #14	1630 - 1637	0	
Keyfob #15	1640 - 1647	0		Keyfob #16	1650 - 1657	0	
Keyfob #17	1660 - 1667	0		Keyfob #18	1670 - 1677	0	
Keyfob #19	1680 - 1687	0		Keyfob #20	1690 - 1697	0	
Keyfob #21	1700 - 1707	0		Keyfob #22	1710 - 1717	0	
Keyfob #23	1720 - 1727	0		Keyfob #24	1730 - 1737	0	
Keyfob #25	1740 - 1747	0		Keyfob #26	1750 - 1757	0	

Item	Location	Default	New	Item	Location	Default	New
Keyfob #27	1760 - 1767	0		Keyfob #28	1770 - 1777	0	
Keyfob #29	1780 - 1787	0		Keyfob #30	1790 - 1797	0	
Keyfob #31	1800 - 1807	0		Keyfob #32	1810 - 1817	0	

Item	Location	Default	New	Item	Location	Default	New
Keyfob #33	10314 - 10322	0		Keyfob #34	10324 - 10331	0	
Keyfob #35	10334 - 10341	0		Keyfob #36	10344 - 10351	0	
Keyfob #37	10354 - 10361	0		Keyfob #38	10364 - 10371	0	
Keyfob #39	10374 - 10381	0		Keyfob #40	10384 - 10391	0	
Keyfob #41	10394 -10401	0		Keyfob #42	10404 - 10411	0	
Keyfob #43	10414 - 10421	0		Keyfob #44	10424 -10431	0	
Keyfob #45	10434 - 10441	0		Keyfob #46	10444 - 10451	0	
Keyfob #47	10454 - 10461	0		Keyfob #48	10464 - 10471	0	
Keyfob #49	10474 - 10481	0		Keyfob #50	10484- 10491	0	
Keyfob #51	10494 - 10501	0		Keyfob #52	10504 - 10511	0	
Keyfob #53	10514 -10521	0		Keyfob #54	10524 - 10531	0	
Keyfob #55	10534 - 10541	0		Keyfob #56	10544 - 10551	0	
Keyfob #57	10554 - 10561	0		Keyfob #58	10564 - 10571	0	
Keyfob #59	10574 - 10581	0		Keyfob #60	10584 - 10591	0	
Keyfob #61	10594 - 10601	0		Keyfob #62	10604 - 10611	0	
Keyfob #63	10614 - 10621	0		Keyfob #64	10624 - 10631	0	

16.5.2 RF Device RFID

Locations for the input have up to 4 options per location available for programming. You can select any combination of the options by programming a single value. But if you select Option 0, all inputs are used as Option 15. Each wireless device contains corresponding input functions. Verify each zone device for input numbers, their sequence and how many inputs are enabled to check if the option you choose can be matched. Each device must have at least one valid input function selected.

Example:

For RADION universal transmitter RFUN with two alarm inputs, program RF zone input options as below:

Option 1 = Input 1, only enable magnetic contact is selected;

Option 2 = Input 2, only external loop is selected;

Option 3 = Input 1 + Input 2, both alarm inputs (magnetic contact and external loop are selected).

Item	Location	Default	New	RF Zone Option Location	Default	New
RF Zone #01	1820 - 1827	0		1828	0	
RF Zone #02	1830 - 1837	0		1838	0	
RF Zone #03	1840 - 1847	0		1848	0	
RF Zone #04	1850 - 1857	0		1858	0	
RF Zone #05	1860 - 1867	0		1868	0	
RF Zone #06	1870 - 1877	0		1878	0	
RF Zone #07	1880 - 1887	0		1888	0	
RF Zone #08	1890 - 1897	0		1898	0	
RF Zone #09	1900 - 1907	0		1908	0	
RF Zone #10	1910 - 1917	0		1918	0	
RF Zone #11	1920 - 1927	0		1928	0	
RF Zone #12	1930 - 1937	0		1938	0	
RF Zone #13	1940 - 1947	0		1948	0	
RF Zone #14	1950 - 1957	0		1958	0	
RF Zone #15	1960 - 1967	0		1968	0	
RF Zone #16	1970 - 1977	0		1978	0	

Item	Option		
RF Zone Option	0 = All Used	1 = Input 1 2 = Input 2	4 = Input 3 8 = Input 4

Table 16.20: RF Zone Options

Item	Location	Default	New	RF Zone Option Location	Default	New
RF Zone #17	10634 - 10641	0		10642	0	
RF Zone #18	10644 - 10651	0		10652	0	
RF Zone #19	10654 - 10661	0		10662	0	
RF Zone #20	10664 - 10671	0		10672	0	
RF Zone #21	10674 - 10681	0		10682	0	
RF Zone #22	10684 - 10691	0		10692	0	
RF Zone #23	10694 - 10701	0		10702	0	
RF Zone #24	10704 - 10711	0		10712	0	
RF Zone #25	10714 - 10721	0		10722	0	
RF Zone #26	10724 - 10731	0		10732	0	
RF Zone #27	10734 - 10741	0		10742	0	
RF Zone #28	10744 - 10751	0		10752	0	
RF Zone #29	10754 - 10761	0		10762	0	
RF Zone #30	10764 - 10771	0		10772	0	
RF Zone #31	10774 - 10781	0		10782	0	
RF Zone #32	10784 - 10791	0		10792	0	

16.5.3 RF Repeater RFID

Locations 1980 to 2057 are for RF repeater IDs.

Item	Location	Default	New	Item	Location	Default	New
Repeater #01	1980 - 1987	0		Repeater #02	1990 - 1997	0	
Repeater #03	2000 - 2007	0		Repeater #04	2010 - 2017	0	

Item	Location	Default	New	Item	Location	Default	New
Repeater #05	2020 - 2027	0		Repeater #06	2030 - 2037	0	
Repeater #07	2040 - 2047	0		Repeater #08	2050 - 2057	0	

17 System Reporting Information

17.1 Door Reporting Options

Item	Location	Option	Default	New
Door Reporting Options	0391	0 = No Door Reports allowed 1 = Report to Receiver 1 2 = Report to Receiver 2 3 = Report to Receiver 3 4 = Report to Receiver 4 5 = Report to Receiver 1,2,3,4 6 = Report to Receiver 1 (2,3,4 backup) 7 = Report to Receiver 1 (2 backup) and Receiver 3 (4 backup)	1	

17.2 Arm/Disarm Reporting Options

Item	Location	Option	Default	New
Arm / Disarm Reporting Options	0403	0 = No Arm / Disarm Reports allowed 1 = Report to Receiver 1 2 = Report to Receiver 2 3 = Report to Receiver 3 4 = Report to Receiver 4 5 = Report to Receiver 1,2,3,4 6 = Report to Receiver 1 (2,3,4 backup) 7 = Report to Receiver 1 (2 backup) and Receiver 3 (4 backup)	1	

Location 403 is set by default to report only to Receiver 1.

17.3 Codepad Reporting Options

Item	Location	Option	Default	New
Codepad Reporting Options	0411	0 = No Codepad Alarm Reports allowed 1 = Report to Receiver 1 2 = Report to Receiver 2 3 = Report to Receiver 3 4 = Report to Receiver 4 5 = Report to Receiver 1,2,3,4 6 = Report to Receiver 1 (2,3,4 backup) 7 = Report to Receiver 1 (2 backup) and Receiver 3 (4 backup)	1	

Location 411 is set by default to report only to Receiver 1.

17.4 Access Denied

Item	Location	Option	Default	New
Code retry limit	0424	0 = Unlimited 1 – 15 = Error code attempts	6	

An Access Denied Report (Contact ID Event Code 461) is sent to the base station receiver when the number of incorrect code attempts equals the number programmed in Location 424. An Access Denied Alarm is audible, but you can program the alarm as silent by selecting Option 8 in Location 493 (refer to *System Options 2, page 166*).



Notice!

Restore Reports for this event are not transmitted.

Code Retries

The Code Retries feature restricts the number of times an invalid User Code can be entered in an attempt to operate the system. Location 424 sets the number of incorrect code attempts that causes an alarm. When the number of incorrect code attempts equals the number programmed in this location, the system performs these actions:

- Activates the sirens, internal screamers, and strobes connected to the control panel. Select Option 8 in Location 493 to change this alarm to silent.
- Shuts down all codepads connected to the control panel and locks them out for the time period programmed in Location 478 (refer to *Codepad Lockout Time, page 162*).
- Sends an Access Denied Report (Contact ID Event Code 461) to the base station receiver.

Each time the system is armed or disarmed, the Code Retries counter is reset. You can program the counter to a value from 1 to 15. If you want the number of incorrect code attempts to be unlimited, program a 0 in Location 424. In this case, the Access Denied Report is never generated and the system does not perform the three actions listed above. This function works when the system is armed or disarmed.

17.5 System Status Reporting Options

Item	Location	Option	Default	New
System Status Reporting Options	0427	0 = No report required 1 = Report to Receiver 1 2 = Report to Receiver 2 3 = Report to Receiver 3 4 = Report to Receiver 4 5 = Report to Receiver 1,2,3,4 6 = Report to Receiver 1 (2,3,4 backup) 7 = Report to Receiver 1 (2 backup) and Receiver 3 (4 backup)	1	

Location 427 is set by default to report only to Receiver 1.

17.6 Test Reporting Time

Item	Location	Option	Default	New
Hour of day (tens digit)	0428		0	
Hour of day (units digit)	0429		0	
Minute of day (tens digit)	0430		0	
Minute of day (units digit)	0431		0	

Item	Location	Option	Default	New
Repeat interval in days	0434	0 = Disable 1 – 15 = 1 – 15 days	0	

A Test Report (Contact ID Event Code 601/602) is a specific signal sent to the base station receiver and is normally used to test the dialing and reporting functions of the control panel.

When programming Test Report options, specify the hour and minute of the day the report is required, and how often to send the report. Test reports are reported on a daily basis from every day to every fifteen days. Program the Test Report Time as 34:00 to send reports every 60 minutes.

Example

Set auto test report interval to the 37th minute of every hour, the time needs to be set as 34:37. Then the auto test report will be sent at 00:37, 01:37, 02:37, etc.

If you want to send Test Reports once every seven days at 11:35 PM (23:35), program Locations 428 to 431 as [2 3 3 5] and location 434 as [7].



Notice!

If automatic Test Reports are not required, program the Hour/Minute/Repeat Interval in Locations 428 to 431 and 434 as 0.

17.7 Test Reporting Options

Item	Location	Option	Default	New
Test Reporting Options	0435	0 = No report required 1 = Report to Receiver 1 2 = Report to Receiver 2 3 = Report to Receiver 3 4 = Report to Receiver 4 5 = Report to Receiver 1,2,3,4 6 = Report to Receiver 1 (2,3,4 backup) 7 = Report to Receiver 1 (2 backup) and Receiver 3 (4 backup)	1	

Location 435 is set by default to report only to Receiver 1.

17.8 Reports

17.8.1 Zone Tamper Report

A Zone Tamper Report (Contact ID Event Code 144) is sent when Option 14 is programmed in Location 266 and the zone loop using split EOL resistors (3K3/6K8) with tamper (1K) becomes open circuit.

17.8.2 Walk Test Report

A Walk Test Report (Contact ID Event Code 607) is sent when either the Installer or Master Code holder activates Walk Test Mode.

17.8.3

Bypass Report

A zone is bypassed when it is manually isolated. A Zone Bypass Report (Contact ID Event Code 573) is sent at the end of Exit Time for any zone that was manually isolated. A 24-Hour Zone sends a Zone Bypass Report when the zone is selected to be isolated.

A Zone Bypass Restore Report is sent when the system is disarmed. All bypassed zones are automatically cleared when the system is disarmed.



Notice!

A 24-Hour Fire Zone that is manually bypassed reports as Contact ID Event Code 571.
Other 24-Hour Zone that is manually bypassed reports as Contact ID Event Code 572.

17.8.4

Trouble Report

A zone is in trouble when it is unsealed at the end of Exit Time. A Sensor Trouble Report (Contact ID Event Code 380) is sent to indicate that one or more zones were automatically isolated by the system.

A Sensor Trouble Restore Report is sent for Burglary Zones when the zone is resealed or the next time the system is disarmed (whichever happens first). A 24-Hour Zone sends a restore signal only when it is resealed.

A 24-Hour Panic Zone Trouble is reported as Contact ID Event Code 375.

A 24-Hour Duress Zone Trouble is reported as Contact ID Event Code 376.

A 24-Hour Fire Zone Trouble is reported as Contact ID Event Code 373.

17.8.5

Sensor Watch Report

A Self Test Failure Report (Contact ID Event Code 391) is sent to the base station receiver when a zone was not activated during the Sensor Watch Time programmed in Locations 476 and 477.

To clear the fault, you must unseal and reseal the zone that registered the fault. Use the Sensor Watch Time in Locations 476 and 477 to set the number of days a zone can remain sealed without registering a fault. Refer to *Zone Options 1, page 121* to program the zone as Sensor Watch.

17.8.6

Alarm Restore Code

A Zone Restore Report is sent only to the receiving party to which the zone is allocated (for example, Receiver 1 or Receiver 2). Refer to *Zone Options 2, page 122* for Zone Restore Report.

17.8.7

RF Receiver Trouble Report

RF Signal Jamming (Contact ID Event Code 344, Point ID Code 821)

RF Receiver Tamper Switch (Contact ID Event Code 341, Point ID Code 821)

RF Receiver Missing (Contact ID Event Code 333, Point ID Code 821)

17.8.8

RF Receiver Trouble Restore Report

An RF Receiver Trouble Restore Report is sent to the base station receiver when the RF receiver no longer registers RF Signal Jamming, RF Receiver Tamper Switch, or RF Receiver Missing.

17.8.9 RF Low Battery Report

An RF Low Battery Report (Contact ID Event Code 384) is sent to the base station receiver when the battery voltage on a wireless zone falls below its corresponding low battery condition. An RF Low Battery Restore Report is sent on the first valid signal after the battery is replaced.

17.8.10 Arm/Disarm Reports

A Disarm Report (Contact ID Event Code 401) is sent to the base station receiver when the system is disarmed from AWAY Mode or STAY Mode. An Arm Report (Contact ID Event Code 401 for arming in AWAY Mode, Contact ID Event Code 441 for STAY Mode 1, Contact ID Event Code 456 for STAY Mode 2) is sent at the end of Exit Time when the system is armed. The user number that armed or disarmed the system follows in the same transmission.

For a keyswitch zone, its zone number is reported as a user code number.

User Code for single button arming/disarming : 00.

User Code for arm tracking on Power Up : 994.

User Code for arming remotely by telephone : 995.

User Code for automatic arming/disarming : 997

User Code for arming and disarming using the A-Link Plus software / RSC : 998.

To enable Arm/Disarm Reports in STAY Mode: Select Option 2 in Location 178.

To enable Arm/Disarm Reports only after a previous alarm, select Option 1 in Location 178 (refer to *Communication Options 2*, page 91).

17.8.11 Codepad Duress Report

A Duress Report (Contact ID Event Code 121) is sent to the base station receiver when 9 is added to the end of any valid User Code used to disarm the system. This alarm is always silent. A Duress Alarm can be activated during Exit Time. In other words, if the system is armed and then disarmed by adding 9 to the end of the User Code before Exit Time expires, a Codepad Duress Report is transmitted. Adding 9 to the end of a User Code when arming the system does not cause a Duress Alarm.

If you want a 3 to activate a Codepad Duress Alarm instead of 9, select Option 2 in Location 498 (refer to *Consumer Options 3*, page 170).

**Notice!**

Restore Reports are not sent for this event.

17.8.12 Codepad Panic Report

A Panic Alarm Report (Contact ID Event Code 120) is sent to the base station receiver when a user presses and release (or hold-down) either [1] and [3] or [STAY] and [AWAY] at the same time. A Panic Alarm is audible, but you can program the alarm as silent by selecting Option 1 in Location 493 (refer to *System Options 2*, page 166).

**Notice!**

Restore Reports are not sent for this event.

- 17.8.13 Codepad Fire Report**
A Fire Alarm Report (Contact ID Event Code 110) is sent to the base station receiver when a user presses and release (or hold-down) [4] and [6] at the same time. A Fire Alarm is audible, but you can program the alarm as silent by selecting Option 2 in Location 493. A distinct fire sound is emitted through the horn speaker to indicate this type of alarm. The fire sound is different than the burglary sound.
Restore Reports are not sent for this event.
- 17.8.14 Codepad Medical Report**
A Medical Report (Contact ID Event Code 100) is sent to the base station receiver when a user presses and release (or hold-down) [7] and [9] at the same time. A Medical Alarm is audible, but you can program the alarm as silent by selecting Option 4 in Location 493.
Restore Reports are not sent for this event.
- 17.8.15 AUX Power Supply Fail Report**
A System Trouble Report (Contact ID Event Code 312) is sent when either the codepad AUX power supply is blown or the AUX power supply malfunctions. The system reports the event approximately 10 sec after the failure.
- 17.8.16 AUX Power Supply Fail Restore Report**
A System Trouble Restore Report (Contact ID Event Code 312) is sent when the AUX power supply is reset. The system reports the event approximately 10 sec after power supply is reset.
- 17.8.17 AC Fail Report**
An AC Fail Report (Contact ID Event Code 301) is sent to the base station receiver when the AC MAINS supply is disconnected for 2 min. If you do not want an AC Fail Report to be sent until the AC MAINS supply is disconnected for 1 hour, select Option 1 in Location 494.
- 17.8.18 AC Fail Restore Report**
An AC Fail Restore Report is sent when the AC MAINS supply is connected continuously for longer than 2 min.
- 17.8.19 Low Battery Report**
A Battery Test Failure Report (Contact ID Event Code 302) is sent to the base station receiver when the system's battery voltage falls below 11 VDC or when a Dynamic Battery Test detects a low capacity battery.
The control panel continually monitors the battery voltage. A Dynamic Battery Test is done every time the system is armed and every 4 hours after the control panel is powered up.
- 17.8.20 Low Battery Restore Report**
A Low Battery Restore Report is sent if the backup battery is restored the next time the system is armed, or when the next Dynamic Battery Test reports the battery test is OK when the system's battery voltage rises to 12 VDC.
- 17.8.21 RF Repeater Trouble Report**
RF Repeater Tamper Switch (Contact ID Event Code 341, Point ID Code 822 to 829)
RF Repeater Missing (Contact ID Event Code 333, Point ID Code 822 to 829)

17.8.22 **RF Repeater Trouble Restore Report**

An RF Repeater Trouble Restore Report is sent to the base station receiver when the RF repeater no longer registers RF Repeater Tamper Switch or RF Repeater Missing.

17.8.23 **Module Fail Report**

IP Module, Input Module, Output Module and Power Module Missing (Contact ID event Code 333)

IP Module, Input Module, Output Module and Power Module Tamper (Contact ID event Code 341)

A Power Module AC Lost Report (Contact ID Event Code 342) is sent to the base station receiver when the AC MAINS supply for the power module is disconnected.

A Power Module Battery Failure Report (Contact ID Event Code 338) is sent to the base station receiver when any one of the module's two batteries is disconnected or when the Battery Test detects a low capacity battery.

A Power Module Over Current Report (Contact ID Event Code 312) is sent to the base station receiver when the module is overload during wiring.

A Power Module Trouble Report (Contact ID Event Code 330) is sent to the base station receiver when the AC power input fails or the battery charger is faulted

17.8.24 **Module Fail Restore Report**

A Module Trouble Restore Report is sent to the base station receiver when the module no longer registers Tamper Switch, or Module Missing.

A Power Module AC Lost Restore Report is sent when the AC MAINS supply is connected.

A Power Module Battery Failure Restore Report is sent when the battery is connected or when the next Battery Test reports the battery test is ok.

A Power Module Over Current Restore Report (Contact ID Event Code 312) is sent when the module power wiring is ok.

A Power Module Trouble Restore Report is sent when the AC power is operational or the battery is fully charged.

17.8.25 **Door Report**

Door report includes only door controller related events, not for door zone 129 -132 events.

Door Missing (Contact ID Event Code 333, Point ID Code 601 to 604)

Door Tamper Switch (Contact ID Event Code 341, Point ID Code 601 to 604)

Door access denied events (Contact ID Event Code 421, Point ID Code 601 to 604)

Door granted events (Contact ID Event Code 422, Point ID Code 601 to 604)

Door open Alarm or Trouble, or door restoral (Contact ID Event Code 426, Point ID Code 601 to 604)

Refer to

- *Access Denied (No Entry) Event, page 182*
- *Access Granted Event, page 182*

18 Programmable Outputs

The control panel has four fully programmable outputs on the main printed circuit board and one programmable output that operates the codepad buzzer. The four outputs are set by default to operate as an alarm device, fire alarm verification, strobe, and internal screamer.

The control panel supports additional 24 outputs via three B308 output expanders, and 6 outputs via three B228 expansion module.

Programmable outputs require four parameters to operate correctly.

Parameter	Description
Event Type	The Event Type specifies when an output is activated. Enter the code for the Output Event Type into the two corresponding locations for the output.
Polarity	Polarity determines whether the output operates for the duration of the event, pulses for the duration, operates only once (one shot), or latches on.
Time Base/Time Multiplier	The Time Base and Time Multiplier parameters determine how long and how often the output operates.

Table 18.21: Output Parameters

18.1 Output Programming

Item	Location	Default	New	Item	Location	Default	New
Output 1 (Default = Horn Speaker)				Output 2 (Default = Fire Alarm With Verification)			
Event Code	0436	1		Event Code	0442	2	
Event Code	0437	14		Event Code	0443	7	
Polarity	0438	0		Polarity	0444	10	
Time Base	0439	0		Time Base	0445	2	
Time Base Multiplier	0440	0		Time Base Multiplier	0446	1	
Time Base Multiplier	0441	0		Time Base Multiplier	0447	5	
Output 3 (Default = Strobe - Reset After 8 hrs.)				Relay Output (Default = Sirens Running)			
Event Code	0448	2		Event Code	0454	2	
Event Code	0449	0		Event Code	0455	11	
Polarity	0450	6		Polarity	0456	3	
Time Base	0451	4		Time Base	0457	2	
Time Base Multiplier	0452	0		Time Base Multiplier	0458	0	
Time Base Multiplier	0453	8		Time Base Multiplier	0459	2	
Codepad Buzzer (Default = Entry/Exit Warning and Day Alarm)							

Item	Location	Default	New	Item	Location	Default	New
Event Code	0460	0					
Event Code	0461	13					
Polarity	0462	2					
Time Base	0463	1					
Time Base Multiplier	0464	0					
Time Base Multiplier	0465	9					

Item	Location	Default	New	Item	Location	Default	New
B308 Output 1				B308 Output 2			
Event Code	0646	0		Event Code	0652	0	
Event Code	0647	0		Event Code	0653	0	
Polarity	0648	0		Polarity	0654	0	
Time Base	0649	0		Time Base	0655	0	
Time Base Multiplier	0650	0		Time Base Multiplier	0656	0	
Time Base Multiplier	0651	0		Time Base Multiplier	0657	0	
B308 Output 3				B308 Output 4			
Event Code	0658	0		Event Code	0664	0	
Event Code	0659	0		Event Code	0665	0	
Polarity	0660	0		Polarity	0666	0	
Time Base	0661	0		Time Base	0667	0	
Time Base Multiplier	0662	0		Time Base Multiplier	0668	0	
Time Base Multiplier	0663	0		Time Base Multiplier	0669	0	
B308 Output 5				B308 Output 6			
Event Code	0670	0		Event Code	0676	0	
Event Code	0671	0		Event Code	0677	0	
Polarity	0672	0		Polarity	0678	0	
Time Base	0673	0		Time Base	0679	0	
Time Base Multiplier	0674	0		Time Base Multiplier	0680	0	
Time Base Multiplier	0675	0		Time Base Multiplier	0681	0	
B308 Output 7				B308 Output 8			
Event Code	0682	0		Event Code	0688	0	
Event Code	0683	0		Event Code	0689	0	
Polarity	0684	0		Polarity	0690	0	
Time Base	0685	0		Time Base	0691	0	

Item	Location	Default	New	Item	Location	Default	New
Time Base Multiplier	0686	0		Time Base Multiplier	0692	0	
Time Base Multiplier	0687	0		Time Base Multiplier	0693	0	
Item	Location	Default	New	Item	Location	Default	New
B308 Output 9				B308 Output 10			
Event Code	0694	0		Event Code	0700	0	
Event Code	0695	0		Event Code	0701	0	
Polarity	0696	0		Polarity	0702	0	
Time Base	0697	0		Time Base	0703	0	
Time Base Multiplier	0698	0		Time Base Multiplier	0704	0	
Time Base Multiplier	0699	0		Time Base Multiplier	0705	0	
B308 Output 11				B308 Output 12			
Event Code	0706	0		Event Code	0712	0	
Event Code	0707	0		Event Code	0713	0	
Polarity	0708	0		Polarity	0714	0	
Time Base	0709	0		Time Base	0715	0	
Time Base Multiplier	0710	0		Time Base Multiplier	0716	0	
Time Base Multiplier	0711	0		Time Base Multiplier	0717	0	
B308 Output 13				B308 Output 14			
Event Code	0718	0		Event Code	0724	0	
Event Code	0719	0		Event Code	0725	0	
Polarity	0720	0		Polarity	0726	0	
Time Base	0721	0		Time Base	0727	0	
Time Base Multiplier	0722	0		Time Base Multiplier	0728	0	
Time Base Multiplier	0723	0		Time Base Multiplier	0729	0	
B308 Output 15				B308 Output 16			
Event Code	0730	0		Event Code	0736	0	
Event Code	0731	0		Event Code	0737	0	
Polarity	0732	0		Polarity	0738	0	
Time Base	0733	0		Time Base	0739	0	
Time Base Multiplier	0734	0		Time Base Multiplier	0740	0	
Time Base Multiplier	0735	0		Time Base Multiplier	0741	0	
Item	Location	Default	New	Item	Location	Default	New
B308 Output 17				B308 Output 18			

Item	Location	Default	New	Item	Location	Default	New
Event Code	10078	0		Event Code	10084	0	
Event Code	10079	0		Event Code	10085	0	
Polarity	10080	0		Polarity	10086	0	
Time Base	10081	0		Time Base	10087	0	
Time Base Multiplier	10082	0		Time Base Multiplier	10088	0	
Time Base Multiplier	10083	0		Time Base Multiplier	10089	0	
B308 Output 19				B308 Output 20			
Event Code	10090	0		Event Code	10096	0	
Event Code	10091	0		Event Code	10097	0	
Polarity	10092	0		Polarity	10098	0	
Time Base	10093	0		Time Base	10099	0	
Time Base Multiplier	10094	0		Time Base Multiplier	10100	0	
Time Base Multiplier	10095	0		Time Base Multiplier	10101	0	
B308 Output 21				B308 Output 22			
Event Code	10102	0		Event Code	10108	0	
Event Code	10103	0		Event Code	10109	0	
Polarity	10104	0		Polarity	10110	0	
Time Base	10105	0		Time Base	10111	0	
Time Base Multiplier	10106	0		Time Base Multiplier	10112	0	
Time Base Multiplier	10107	0		Time Base Multiplier	10113	0	
B308 Output 24				B308 Output 24			
Event Code	10114	0		Event Code	10120	0	
Event Code	10115	0		Event Code	10121	0	
Polarity	10116	0		Polarity	10122	0	
Time Base	10117	0		Time Base	10123	0	
Time Base Multiplier	10118	0		Time Base Multiplier	10124	0	
Time Base Multiplier	10119	0		Time Base Multiplier	10125	0	

Item	Option	
Event Code	0 0 = Reserved 0 1 = System armed 0 2 = System disarmed 0 3 = Armed in STAY mode 0 4 = Armed in AWAY mode 0 5 = Pre-arming alert	1 0 = Day alarm enabled 1 1 = Telephone line fail 1 2 = Kiss-off received 1 3 = AUX Power Supply fail 1 4 = AC fail 1 5 = Low battery 1 6 = Output 1 fail

Item	Option	
	0 6 = Exit Warning (all zones sealed) and entry warning 0 7 = Exit Warning 0 8 = Exit Warning finished 0 9 = Kiss-off after end of Exit Time 0 10 = Reserved 0 11 = Entry warning 0 12 = Entry warning and day alarm resetting 0 13 = Exit warning and entry warning and day alarm resetting 0 14 = Day alarm resetting 0 15 = Day alarm latching	1 7 = Sensor watch alarm 1 8 = Codepad medical alarm 1 9 = Codepad fire alarm 1 10 = Codepad panic alarm 1 11 = Codepad duress alarm 1 12 = Access denied (code retries) 1 13 = Reserved 1 14 = Horn speaker (output 1 only) 1 15 = Siren running
Event Code	2 0 = Strobe 2 1 = Silent alarm 2 2 = Alarm in STAY mode 2 3 = Alarm in AWAY mode 2 4 = System fault 2 5 = Fire alarm (resetting) 2 6 = Fire alarm (latching) 2 7 = Fire alarm (verification) 2 8 = Remote control 1 2 9 = Remote control 2 2 10 = Remote control 3 2 11 = Radio control output 1 2 12 = Radio control output 2 2 13 = Radio control output 1- not in AWAY Mode 2 14 = Radio control output 2- not in AWAY Mode 2 15 = Communications fail after 3 attempts	3 0 = Communications fail 3 1 = Report disabled 3 2 = Report active (on-line) 3 3 = Ring detect 3 4 = Codepad/Keyfob panic 3 5 = Mimic zone 1 3 6 = Mimic zone 2 3 7 = Mimic zone 3 3 8 = Mimic zone 4 3 9 = Mimic zone 5 3 10 = Mimic zone 6 3 11 = Mimic zone 7 3 12 = Mimic zone 8 3 13 = Mimic zone 9 3 14 = Mimic zone 10 3 15 = Mimic zone 11
Event Code	4 0 = Mimic zone 12 4 1 = Mimic zone 13 4 2 = Mimic zone 14 4 3 = Mimic zone 15 4 4 = Mimic zone 16 4 5 = Chime 4 6 = Zone not sealed 4 7 = Zone not sealed after Exit Time 4 8 = Reserved 4 9 = AC MAINS cycle (60 Hz or 50 Hz) 4 10 = Area 1 - zone unsealed 4 11 = Area 2 - zone unsealed 4 12 = Reserved 4 13 = Reserved 4 14 = Reserved 4 15 = Reserved	5 0 = Reserved 5 1 = Reserved 5 2 = Area 1 in alarm 5 3 = Area 2 in alarm 5 4 = Reserved 5 5 = Reserved 5 6 = Area 1 armed 5 7 = Area 2 armed 5 8 = Reserved 5 9 = Reserved 5 10 = Area 1 disarmed 5 11 = Area 2 disarmed 5 12 = Reserved 5 13 = Reserved 5 14 = Any areas armed 5 15 = Any areas disarmed

Item	Option	
Event Code	6 0 = Reserved 6 1 = Reserved 6 2 = Remote control 4 6 3 = Remote control 5 6 4 = Remote control 6 6 5 = Remote control 7 6 6 = Remote control 8 6 7 = Remote control 9	6 8 = Remote control 10 6 9 = Remote control 11 6 10 = Remote control 12 6 11 = Remote control 13 6 12 = Remote control 14 6 13 = Remote control 15 6 14 = Remote control 16 6 15 = Remote control 17
Event Code	7 0 = Remote control 18 7 1 = Remote control 19 7 2 = Remote control 20 7 3 = Remote control 21 7 4 = Remote control 22 7 5 = Remote control 23 7 6 = Remote control 24 7 7 = Remote control 25 7 8 = Remote control 26	7 9 = Remote control 27 7 10 = Remote control 28 7 11 = Remote control 29 7 12 = Remote control 30 7 13 = Remote control 31 7 14 = Remote control 32 7 15 = Remote control 33 8 0 = Remote control 34
Polarity (Modes)	0 = Output not used 1 = Normally open, going low 2 = Normally open, pulsing low 3 = Normally open, one shot low 4 = Normally open, one shot low (reactivate) 5 = Normally open, one shot low (can reset) 6 = Normally open, one shot low (alarm) 7 = Normally open, latching low	8 = Normally low, going open 9 = Normally low, pulsing open 10 = Normally low, one shot open 11 = Normally low, one shot open (reactivate) 12 = Normally low, one shot open (can reset) 13 = Normally low, one shot open (alarm) 14 = Normally low, latching open
Time Base	0 = Reserved 1 = 200 ms 2 = 1 sec.	3 = 1 min. 4 = 1 hr.
Time Base Multiplier	Enter a value between 00 and 99.	

Table 18.22: Output Item Options

18.1.1 Pulsing Polarities

When programming pulsing polarities, you must set both the On and Off times. The duration, or On time, for an output is determined by time base. In other words, there are only four possible On times.

The Off time is calculated by multiplying the On time by a decimal number between 00 and 99. If you want an output to operate for 200 ms every 5 sec, program the time settings as:

On Time: 1

Off Time: 2 5

On Time	Off Time	Increments	Tolerance
200 ms	200 ms to 19.8 sec	200 ms	±200 ms
1 sec	1 to 99 sec	1 sec	±1 sec
1 min	1 to 99 min	1 min	±1 min

On Time	Off Time	Increments	Tolerance
1 hour	1 to 99 hr	1 hr	± 1 hr

Table 18.23: Pulsing Time Settings

18.1.2

One-Shot Polarities

The duration, or On time, of an output is determined by the product of the time base and the multiplier.

If you want an output to operate for 5 sec, program the time settings as:

Time Base: 2

Multiplier: 0 5

The On time is calculated by multiplying the time base setting (1 sec) by the multiplier value (05) (for example, 1 x 05 = 5 sec).

On Time	Increments	Tolerance
200 ms to 19.8 sec	200 ms	±200 ms
1 to 99 sec	1 sec	±1 sec
1 to 99 min	1 min	±1 min
1 to 99 hr	1 hr	± 1 hr

Table 18.24: One-Shot Time Settings

18.2

Output Event Types

There are approximately 89 Output Event Types. Two numbers designate each Output Event Type. Program these numbers into the appropriate locations for the output.



Notice!

All reset times reference Polarity 1 and 8. Reset times vary depending on the selected polarity.

0,1 System Armed

This output operates when the system is armed. The output is reset when the system is disarmed. If the system is partitioned, this output operates when both areas are armed in AWAY Mode, STAY Mode 1 or STAY Mode 2.

0,2 System Disarmed

This output operates when the system is disarmed. The output is reset when the system is armed. If the system is partitioned, this output operates when both areas are disarmed.

0,3 Armed in STAY Mode

This output operates when the system is armed in STAY Mode 1 or STAY Mode 2. The output is reset when the system is disarmed. If the system is partitioned, this output operates when either area is armed in STAY Mode 1 or STAY Mode 2.

0,4 Armed in AWAY Mode

This output operates when the system is armed in AWAY Mode. The output is reset when the system is disarmed. If the system is partitioned, this output operates when either area is armed in AWAY Mode.

0,5 Auto Arm Pre-Arming Alert Time

This output operates during the time period before the control panel is automatically armed in AWAY Mode or STAY Mode 1. The output is reset when the control panel is automatically armed in AWAY Mode or STAY Mode 1. The Auto Arming Pre-Alert Time is programmed in Location 481.

0,6 Exit Warning with All Zones Sealed or Entry Warning

This output operates during Exit Time when the control panel is armed and all zones are sealed. The output is reset when Exit Time expires.

This output operates again during Entry Time and is reset when Entry Time expires or the system is disarmed.

This output also operates if a zone is activated when the system is armed in STAY Mode 1 or STAY Mode 2 and the Entry Guard Timer for STAY Mode is programmed in Locations 472 and 473.

0,7 Exit Warning

This output operates during Exit Time when the system is armed. The output is reset when Exit Time expires or the system is disarmed.

0,8 Exit Warning Finished

This output operates after Exit Time expires when the system is armed. The output is reset when the system is disarmed.

0,9 Kiss-Off after Exit Time

This output operates after the first successful transmission to the base station receiver when Exit Time expires. The output is reset when the system is disarmed.

0,11 Entry Warning

This output operates when during Entry Timer 1, Entry Timer 2, or Entry Guard Timer for STAY Mode. The output is reset when the Entry Time or Entry Guard Time expires or the system is disarmed. If Entry Time and Entry Guard time are present together, the output will follow the Entry Guard Time.

0,12 Entry Warning + Day Alarm Resetting

This output combines Entry Warning and Day Alarm Resetting so that either of these two events activates the output.

If the output is activated by Entry Timer 1, Entry Timer 2, or Entry Guard Timer for STAY Mode, the output is reset when the Entry Time or Entry Guard Time expires or the system is disarmed.

If a zone programmed for Day Alarm is activated when the system is disarmed and Day Alarm is turned on in the area to which this zone is allocated, the output is reset when the zone is resealed or Day Alarm is turned off in the area to which this zone is allocated or the system is armed. You can turn Day Alarm on and off by holding down [4] or selected from the menu on KP.

0,13 Exit Warning + Entry Warning + Day Alarm Resetting

This output operates when the system is armed, regardless of whether zones are sealed or unsealed, until Exit Time expires or the system is disarmed.

The output operates again during Entry Time and is reset when Entry Time expires or the system is disarmed. The output also operates during the Entry Guard Timer for STAY Mode time and is reset when the Entry Guard Time expires or the system is disarmed.

If a zone programmed for day alarm is activated when the system is disarmed or Day Alarm is turned off in the area to which this zone is allocated or the system is armed, the output is reset when the zone is resealed or Day Alarm is turned off in the area to which this zone is allocated or the system is armed. You can turn Day Alarm on and off by holding down [4] or selected from the menu on KP.

0,14 Day Alarm Resetting

This output operates when a zone programmed for Day Alarm is activated while the system is disarmed and Day Alarm is turned on in the area to which this zone is allocated. The output is reset when the Day Alarm zone is resealed or Day Alarm is turned off in the area to which this zone is allocated or the system is armed. You can turn Day Alarm on and off by holding down [4] or selected from the menu on KP.

0,15 Day Alarm Latching

This output operates when a zone programmed for Day Alarm is activated while the system is disarmed and Day Alarm is turned on in area to which the zone is allocated. The output is reset by pressing [AWAY]. You can turn Day Alarm on and off by holding down [4] or selected from the menu on KP.

If the control panel is partitioned, you can reset only this output on the area codepad to which the zone is allocated.

1,0 Day Alarm Enabled

This output operates when Day Alarm is enabled in any one used area. The output is reset when Day Alarm is turned off in all used areas.

You can turn Day Alarm on and off by holding down [4] or selected from the menu on KP. Three beeps indicate that Day Alarm is turned on, two beeps indicate that Day Alarm is turned off.

1,1 Telephone Line Fail

This output operates when the built-in telephone line fault module detects that the telephone line is disconnected longer than 40 sec. The output is reset when the telephone line is restored continuously for 40 sec. This output does not operate unless Option 1 in Location 176 is selected or the function "Telephone Line Fault Indicator" (Menu 3-4-4) is enabled.

1,2 Kiss-off Received

This output operates after the control panel successfully transmitted to the receiving party, or else the output is reset.

1,3 AUX Power Supply Fail

This output operates when the 12V SDI2 BUS devices power supply or 12V zone or output AUX power supply fails. The output is reset when all fault AUX power supply above is reset..

1,4 AC Fail

This output operates when the AC MAINS fails. The output is reset when the AC MAINS is restored. This output operates regardless of whether Option 2 in Location 494 is selected or on TEXT codepad the Menu 341 "Ignore AC Fail" is enabled.

1,5 Low Battery

This output operates when a Dynamic Battery Test detects the battery failed or the battery voltage is below 11.0 VDC. The Dynamic Battery Test is performed every 4 hours after the system is powered up and every time the system is armed. This output is reset only after a Dynamic Battery Test reports that the backup battery voltage is normal.

1,6 Output 1 Fail

If the Enable Monitoring of warning device option (2) in Location 492 is selected or option "Warning Device Fault Monitor" (TEXT Codepad Menu 3-4-3) is enabled, this output operates when the horn speaker is disconnected. The output is reset when the horn speaker is reconnected.

1,7 Sensor Watch Alarm

This output operates when the Sensor Watch fault occurs. The output is reset when this fault clears.

1,8 Codepad Medical Alarm

This output operates when a user activates a Codepad Medical Alarm by pressing [7] and [9] at the same time on the remote codepad. This output is reset when a valid User Code is entered at the remote codepad.

1,9 Codepad Fire Alarm

This output operates when a user activates a Codepad Medical Alarm by pressing [4] and [6] at the same time on the remote codepad. This output is reset when a valid User Code is entered at the remote codepad.

1,10 Codepad Panic Alarm

This output operates when a user activates a Codepad Panic Alarm by pressing either [1] and [3] or [STAY] and [AWAY] at the same time on the remote codepad, or when a keyfob Panic Alarm is activated by pressing ARM button and DISARM button together on the learned keyfob. This output is reset when a valid User Code is entered at the remote codepad, or ARM or DISARM button on the keyfob is pressed to reset alarm.

1,11 Codepad Duress Alarm

This output operates when a user activates a Duress Alarm by adding a 9 to the end of the User Code used to disarm the system. This output is reset the next time the system is armed.

1,12 Codepad PIN Error - Access Denied

This output operates when the wrong code is entered more times than allowed. The number of incorrect attempts allowed is programmed in Location 424 or TEXT codepad option "Access Retry" (Menu 2-3). This output is reset when a valid User Code is entered after the codepad is unlocked.

1,14 Horn Speaker (Output 1 Only)

This output operates only on Output 1. Use this output for one or two 8 Ω horn speakers. To enable monitoring of the horn speaker, select Option 2 in Location 492.

1,15 Sirens Running

This output operates for the duration of the Siren Run Time programmed in Location 479. When the sirens are activated, this output is reset when the Siren Run Time expires. The relay output (Output 4) is set by default for this operation.

2,0 Strobe Operating

This output operates when an alarm occurs and is reset when a valid User Code is entered. The strobe output (Output 3) is set by default for strobe operation and is programmed to reset automatically after 8 hours.

2,1 Silent Alarm

This output operates when any zone programmed to be silent activates. The output is reset when the Siren Run Time expires, an audible alarm is activated, or a valid User Code is entered.

2,2 Alarm When in STAY Mode

This output operates when an audible alarm zone is activated when the system is armed in STAY Mode 1 or STAY Mode 2. The output is reset when the system is disarmed. Silent alarm will not trigger this event.

2,3 Alarm When in AWAY Mode

This output operates when an audible zone alarm is activated when the system is armed in AWAY Mode. The output is reset when the system is disarmed. Silent alarm will not trigger this event.

2,4 Mimic System Fault

This output operates when any system fault occurs. The output is reset when all system faults are restored.

2,5 Fire Alarm Resetting

This output operates when a 24-Hour Fire Zone or codepad fire alarm is activated. The output is reset when a valid User Code is entered or when Siren Run Time expires.

2,6 Fire Alarm Latching

This output operates when a 24-Hour Fire Zone or codepad fire alarm is activated and is reset when a valid user code is entered in system disarmed state or before the siren time expires in system armed state.

2,7 Fire Alarm Verification

This feature is used on some commercial fire control panels to reduce false alarms from smoke detectors. It is similar to zone pulse count used in some motion detectors. A fire zone is allotted a pulse count of 3 pulses over a period of 3 min.

If the smoke detector trips, the voltage to the smoke detector is disconnected for 15 sec and then reapplied. No alarm is registered.

If the unit activates again within 3 min of the first activation, no alarm is registered and the voltage to the smoke detector is again disconnected for 15 sec and then reapplied.

If a third activation is detected within 3 min of the first activation, (three pulses in 3 min) a fire alarm is registered. Power to the smoke detector is maintained to facilitate unit identification through the detector memory.

Connect this output to the negative side of any fire/smoke detector. To configure an output for this feature, use these settings.

EVENT TYPE - 2,7

POLARITY - 10

TIMEBASE - 2

MULTIPLIER - 15

The zone to which the fire or smoke detector is connected should be programmed as:

ZONE TYPE - 13

ZONE PULSE COUNT - 3

ZONE PULSE COUNT TIME - 15

2,8 Remote Control 1

This output operates output when using the master code function or A-Link software or Smartphone App (RSC+) to turn remote output 1 on. The output is reset when using the master code function or A-Link software or Smartphone App (RSC+) to manually turn remote output 1 off or automatically turn remote output 1 off when the ON time expires if output polarity is from 3 to 6 or from 10 to 13.

2,9 Remote Control 2

This output operates output when using the master code function or A-Link software or Smartphone App (RSC+) to turn remote output 2 on. The output is reset when using the master code function or A-Link software or Smartphone App (RSC+) to manually turn remote output 2 off or automatically turn remote output 2 off when the ON time expires if output polarity is from 3 to 6 or from 10 to 13.

2,10 Remote Control 3

This output operates output when using the master code function or A-Link software or Smartphone App (RSC+) to turn remote output 3 on. The output is reset when using the master code function or A-Link software or Smartphone App (RSC+) to manually turn remote output 3 off or automatically turn remote output 3 off when the ON time expires if output polarity is from 3 to 6 or from 10 to 13.

2,11 Radio Control Output 1

This output operates when the "1 Point" button (RADION) on the 4-button keyfob is toggled ON. The output is reset when this button is toggled OFF manually or automatically toggled off when the ON time expires if output polarity is from 3 to 6 or from 10 to 13.

2,12 Radio Control Output 2

This output operates when the "2 Point" button (RADION) on the 4-button keyfob is toggled ON. The output is reset when this button is toggled OFF manually or toggled off automatically when the ON time expires if output polarity is from 3 to 6 or from 10 to 13. If you select Option 8 in Location 492, this output does not operate and arms the system in STAY Mode 1 only.

2,13 Radio Control Output 1 - Not in AWAY Mode

This output operates when the "1 Point" button (RADION) on the 4-button keyfob is toggled ON when the system is disarmed or armed in STAY Mode 1 or STAY Mode 2. The output is reset when this button is toggled OFF manually or automatically toggled off when the ON time expires if output polarity is from 3 to 6 or from 10 to 13. The output does not operate when the system is armed in AWAY Mode.

2,14 Radio Control Output 2 - Not in AWAY Mode

This output operates when the "2 Point" button (RADION) on the 4-button keyfob is toggled ON when the system is disarmed or armed in STAY Mode 1 or STAY Mode 2. The output is reset when this button is toggled OFF manually or automatically toggled off when the ON time expires if output polarity is from 3 to 6 or from 10 to 13. The output does not operate when the system is armed in AWAY Mode.

If you select Option 8 in Location 492, this output does not operate and arms the system in STAY Mode 1 only.

2,15 Communications Failure after Three Unsuccessful Calls

This output operates after the communicator makes three unsuccessful calls to any one used receiver. The output is reset when all messages are transmitted, or six unsuccessful or no calls to used receivers.

3,0 Communications Failure

This output operates when either of the communication routes fault. The output is reset when both route faults clear.

3,1 Report Disabled

This output operates when the communicator reporting functions allowed option (1) in Location 177 is not selected. The output is reset when Option 1 is selected.

3,2 Report Active

This output operates when the transmission configuration of two paths for PSTN or CSVIP or email is not able to transmit data. The output is reset when at least one path's transmission configuration for PSTN or CSVIP or email is able to transmit data.

3,3 Ring Detect

This output operates when an incoming call is detected by the control panel. The output is reset when the ringing stops or when the call is answered.

3,4 Codepad / Keyfob Panic (Multi-Break)

This output operates when a Panic Alarm is initiated from the codepad or keyfob. The output operates for 200 ms if the polarity is programmed as 1 or 8. You can program the time base and multiplier to increase the period during which the output operates.

3,5 Mimic Zone 1

3,6 Mimic Zone 2

3,7 Mimic Zone 3

3,8 Mimic Zone 4

3,9 Mimic Zone 5

3,10 Mimic Zone 6**3,11 Mimic Zone 7****3,12 Mimic Zone 8**

These output types mimic the zone inputs. The output operates when the zone is unsealed and is reset when the zone is sealed. They operate regardless of the selected zone type. Zone type can not be "Not Used". This feature operates when the system is armed or disarmed.

4,5 Global Chime

This output operates when any Chime zones are activated. The output is reset when all Chime zones are resealed.

4,6 Zone Not Sealed

This output operates when a Zone is unsealed. There are some conditions for the zone:

- 1> the zone type is valid, and is not chime, keyswitch
- 2> the zone is assigned to a valid partition
- 3> the zone is not bypassed

4,7 Zone Not Sealed after Exit Time

This output operates if a Zone is unsealed and the exit time of the partition which the zone belongs to is end. There are some conditions for the zone:

- the zone type is valid, and is not chime, keyswitch
- the zone is assigned to a valid partition
- the zone is not bypassed

The output is reset when all zones are sealed or the system is disarmed.

4,9 AC MAINS 60 Hz or 50 Hz

This output is activated when the AC MAINS supply frequency is 60 Hz. The output is reset if the AC MAINS supply returns to 50 Hz.

**Notice!**

Output Event Types 4,10 through 6,1 are available only to partitioned control panels.

4,10 Area 1 Has Unsealed Zone**4,11 Area 2 Has Unsealed Zone**

These two outputs operate when a zone in their corresponding area registers as unsealed either when the area is armed in AWAY Mode or STAY Mode, or the area is disarmed. There are some conditions for the zone:

- the zone type is valid, and is not chime, keyswitch
- the zone is assigned to a valid partition
- the zone is not bypassed

Example

Zone 1 is allocated to Area 1. If Zone 1 is unsealed, Output Event Type 4,10 operates. The output is reset when the zone is resealed.

5,2 Area 1 in Alarm**5,3 Area 2 in Alarm**

These two outputs operate when a zone in their corresponding area registers an alarm. These outputs are reset when a valid User Code is entered or Siren Run Time expires.

Example

Zone 1 is allocated to Area 1. If Zone 1 registers an alarm, Output Event Type 5,2 operates. The output is reset when a valid User Code assigned to Area 1 is entered.

5,6 Area 1 Is Armed

5,7 Area 2 Is Armed

These two outputs operate when their corresponding area are armed in AWAY Mode or STAY Mode 1 or STAY Mode 2. The output is reset when the corresponding area is disarmed.

Example

If Area 1 is armed in AWAY Mode or STAY Mode1 or STAY Mode 2, Output Event Type 5,6 operates. The output is reset when Area 1 is disarmed.

5,10 Area 1 Is Disarmed**5,11 Area 2 Is Disarmed**

These two outputs operate when their corresponding area is disarmed. The output is reset when the corresponding area is armed.

Example

If Area 1 is disarmed, Output Event Type 5,10 operates. The output is reset when Area 1 is disarmed.

5,14 Any Areas Armed

This output operates when either Area 1 or Area 2 is armed in AWAY Mode or STAY Mode 1. The output is reset when both areas are disarmed.

5,15 Any Areas Disarmed

This output operates when either Area 1 or Area 2 is disarmed. The output is reset when both areas are armed in AWAY Mode or STAY Mode 1 or STAY Mode 2.

6,2 Remote Control 4**6,3 Remote Control 5****6,4 Remote Control 6****6,5 Remote Control 7****6,6 Remote Control 8****6,7 Remote Control 9****6,8 Remote Control 10****6,9 Remote Control 11****6,10 Remote Control 12****6,11 Remote Control 13****6,12 Remote Control 14****6,13 Remote Control 15****6,14 Remote Control 16****6,15 Remote Control 17****7,0 Remote Control 18****7,1 Remote Control 19****7,2 Remote Control 20**

.....

7,15 Remote Control 33**8,0 Remote Control 34**

These outputs operate output when using the master code function or A-Link software or Smartphone App (RSC+) to turn remote output on. The output is reset when using the master code function or A-Link software or Smartphone App (RSC+) to manually turn remote output off or automatically turn remote output 3 off when the ON time expires if output polarity is from 3 to 6 or from 10 to 13.

18.3

Output Polarity

There are fifteen different polarities. Each polarity is designated by a number that you program into the appropriate location for the output.

0 – Output Not Used

If an output is not required, program the polarity as 0.

1 – Normally Open, Going Low

This polarity is normally open circuit and switches to 0 V when the event occurs. The output switches back to open circuit when the event is restored. Time parameters do not apply to this polarity.

2 – Normally Open, Pulsing Low

This polarity is normally open circuit and switches to pulsing 0 V when the event occurs. The output switches back to open circuit when the event is restored. Time parameters vary the On time (Time base) and Off time (Time Base*Time Base Multiplier) of the pulse.

3 – Normally Open, One-Shot Low

This one-shot polarity is normally open circuit and switches to 0 V when the event occurs. The output switches back to open circuit when the time parameter setting expires. This one-shot time setting always runs its full duration and cannot be manually reset.

4 – Normally Open, One-Shot Low with Reactivate

This one-shot polarity is normally open circuit and switches to 0 V when the event occurs. Every time the event occurs, it restarts the one-shot timer. The output switches back to open circuit when the oneshot time expires. This one-shot time setting always runs its full duration. You cannot reset the time.

5 – Normally Open, One-Shot Low with Reset

This one-shot polarity is normally open circuit and switches to 0 V when the event occurs. The output switches back to open circuit when the one-shot time expires or when the event returns to normal.

6 – Normally Open, One-Shot Low with Alarm

This one-shot polarity is normally open circuit and switches to 0 V when the event occurs. The output switches back to open circuit when the one-shot time expires, the event returns to normal.

This polarity is ideally suited for the operation of strobe lights because you can program the lights to reset (up to 99 hours) and prevent them from burning out or bothering others due to prolonged operation.

7 – Normally Open, Latching Low

This polarity is normally open circuit and switches to 0 V when the event occurs. The output switches back to open circuit when a user holds down [7] on the remote codepad until two beeps sound. Time parameters do not apply to this polarity.

8 – Normally Low, Going Open

This polarity is normally 0 V and switches to open circuit when the event occurs. The output switches back to 0 V when the event is restored. Time parameters do not apply to this polarity.

9 – Normally Low, Pulsing Open

This polarity is normally 0 V and switches to pulsing open circuit when the event occurs. The output switches back to 0 V when the event is restored. Time parameters vary the Off time of the pulse. (Time base) and On time (Time Base*Time Base Multiplier) of the pulse.

10 – Normally Low, One-Shot Open

This one-shot polarity is normally 0 V and switches to open circuit when the event occurs. The output switches back to 0 V when the time parameter expires. This one-shot time setting always runs its full duration and cannot be manually reset.

11 – Normally Low, One-Shot Open with Reactivate

This one-shot polarity is normally 0 V and switches to open circuit when the event occurs. Every time the event occurs, it restarts the one-shot timer. The output switches back to 0 V when the one-shot time expires. This one-shot time setting always runs its full duration. You cannot reset the time.

12 – Normally Low, One-Shot Open with Reset

This one-shot polarity is normally 0 V and switches to open circuit when the event occurs. The output switches back to 0 V when the one-shot time expires or when the event returns to normal.

13 – Normally Low, One-Shot Open with Alarm

This one-shot polarity is normally 0 V and switches to open circuit when the event occurs. Because the output switches back to 0 V when the one-shot time expires, the event returns to normal, or the system is disarmed, the one-shot timer can be shortened regardless of the time setting.

14 – Normally Low, Latching Open

This polarity is normally 0 V and switches to open circuit when the event occurs. The output switches back to 0 V when the user holds down [7] on the remote codepad until two beeps sound. Time parameters do not apply to this polarity.

18.4 Output Timing

The timing of outputs is calculated by the time base and a multiplier. These two values play different roles depending on the selected polarity. When you program outputs to pulse, you can set both the On and Off times. You can program one-shot polarities to operate from 200 ms to 99 hours.



Notice!

The maximum value you can program in the two multiplier locations is 9,9.

The multiplier value is a two-digit decimal number from 00 to 99. For greater accuracy, use 60 sec for 1-min intervals and 60 min for 1-hour intervals.

18.5 Pulsing Polarities

When programming pulsing polarities, you must set both the On and Off times. The duration, or On time, for an output is determined by time base. In other words, there are only four possible On times.

The Off time is calculated by multiplying the On time by a decimal number between 00 and 99. If you want an output to operate for 200 ms every 5 sec, program the time settings as:

On Time: 1

Off Time: 2 5

On Time	Off Time	Increments	Tolerance
200 ms	200 ms to 19.8 sec	200 ms	±200 ms
1 sec	1 to 99 sec	1 sec	±1 sec
1 min	1 to 99 min	1 min	±1 min
1 hour	1 to 99 hr	1 hr	± 1 hr

Table 18.25: Pulsing Time Settings

18.6 One-Shot Polarities

The duration, or On time, of an output is determined by the product of the time base and the multiplier.

If you want an output to operate for 5 sec, program the time settings as:

Time Base: 2

Multiplier: 0 5

The On time is calculated by multiplying the time base setting (1 sec) by the multiplier value (05) (for example, 1 x 05 = 5 sec).

On Time	Increments	Tolerance
200 ms to 19.8 sec	200 ms	±200 ms
1 to 99 sec	1 sec	±1 sec
1 to 99 min	1 min	±1 min
1 to 99 hr	1 hr	± 1 hr

Table 18.26: One-Shot Time Settings

18.7 B228 Output programming

Item	Location	Default	New	Item	Location	Default	New
B228 Module 1 Output 1				B228 Module 1 Output 2			
Event Code	0742	0		Event Code	0748	0	
Event Code	0743	0		Event Code	0749	0	
Polarity	0744	0		Polarity	0750	0	
Time Base	0745	0		Time Base	0751	0	
Time Base Multiplier	0746	0		Time Base Multiplier	0752	0	
Time Base Multiplier	0747	0		Time Base Multiplier	0753	0	
OC 1 Mode	0770	0		OC2 Mode	0771	0	
B228 Module 2 Output 1				B228 Module 2 Output 2			
Event Code	10126	0		Event Code	10133	0	
Event Code	10127	0		Event Code	10134	0	
Polarity	10128	0		Polarity	10135	0	
Time Base	10129	0		Time Base	10136	0	
Time Base Multiplier	10130	0		Time Base Multiplier	10137	0	
Time Base Multiplier	10131	0		Time Base Multiplier	10138	0	
OC 1 Mode	10132	0		OC2 Mode	10139	0	
B228 Module 3 Output 1				B228 Module 3 Output 2			
Event Code	10140	0		Event Code	10147	0	

Item	Location	Default	New	Item	Location	Default	New
Event Code	10141	0		Event Code	10148	0	
Polarity	10142	0		Polarity	10149	0	
Time Base	10143	0		Time Base	10150	0	
Time Base Multiplier	10144	0		Time Base Multiplier	10151	0	
Time Base Multiplier	10145	0		Time Base Multiplier	10152	0	
OC 1 Mode	10146	0		OC2 Mode	10153	0	

Item	Option	
OC1 Mode	0 = Not used	2 = SW negative
OC2 Mode	1 = Aux power	3 = Open collector

Table 18.27: Output Item Options

B228 outputs support programming with any output event types.
Output Mode is selectable for each output.

B228 output mode programming

2 additional outputs are added when one B228 module is connected to the control panel.

0 - Not used

The B228 output 1 or 2 is not used.

1 - Aux power

The B228 output a +12V auxiliary power supply.

2 - Switched negative

3 - Open collector

When Option 2 or Option 3 is selected, the B228 output operates as onboard output.

When the B228 output is programmed for Remote Control Output, you can turn the remote output on or off using the Master Code command [2580][5][AWAY].

19 System Event Timers

This section covers the features that involve timing, such as Entry and Exit Times, Sensor Watch Time, and Siren Run Time.

19.1 Programming Entry/Exit Times

There are two programming locations for Entry Time 1, Entry Time 2, Exit Time for AWAY Mode, and Entry Guard Time for STAY Mode.

The first location of the timer allows you to set the timer in increments of 1 sec. The second location allows you to set the timer in increments of 16 sec. Add these two locations together for the total time.

Example

To set the Entry Time to 18 sec, program Location 466 as 2 (2 x 1 sec = 2 sec) and Location 467 as 1 (1 x 16 sec = 16 sec) for a total time of 18 sec (2 + 16 = 18).

19.2 Entry Time 1

Item	Location	Option	Default	New
Increments of 1 sec. (0 to 15 sec.)	0466		4	
Increments of 16 sec. (0 to 240 sec.)	0467		1	

You can program Entry Time 1 from 0 to 255 sec in increments of 1 sec. Entry Time 1 is the delay time used by the Delay-1 Zones.

Refer to

– *Zone Types, page 117*

19.3 Entry Time 2

Item	Location	Option	Default	New
Increments of 1 sec. (0 to 15 sec.)	0468		8	
Increments of 16 sec. (0 to 240 sec.)	0469		2	

You can program Entry Time 2 from 0 to 255 sec in increments of 1 sec. Entry Time 2 is the delay time used by Delay-2 Zones.

19.4 Exit Time

Item	Location	Option	Default	New
Increments of 1 sec. (0 to 15 sec.)	0470		12	
Increments of 16 sec. (0 to 240 sec.)	0471		3	

You can program the Exit Time from 0 to 255 sec in increments of 1 sec.

When arming the system in AWAY Mode, the codepad beeps during Exit Time until the final 10 sec, when the codepad sounds one continuous beep to indicate the end of Exit Time is near.

When arming in STAY Mode 1 or STAY Mode 2, the codepad sounds no beeps during Exit Time but one short beep at the end of Exit Time.

19.5 Entry Guard Time for STAY Mode

Item	Location	Option	Default	New
Increments of 1 sec. (0 to 15 sec.)	0472		0	
Increments of 1 6sec. (0 to 240 sec.)	0473		0	

Entry Guard Time for STAY Mode is the delay time used for all zones except 24-Hour Zones when the system is armed in STAY Mode 1 or STAY Mode 2. All zones, including Delay Zones, use this time for the entry delay (for example, the Entry Guard Time overrides the delay time programmed for a Delay Zone). If the Entry Guard Time is programmed as 0, each zone acts according to its programmed zone type.

Refer to

- *Zone Options 2, page 122*
- *Setting STAY Mode 2 Bypass Zones, page 55*

19.6 Delay Alarm Reporting Time

Item	Location	Option	Default	New
Increments of 1 sec. (0 to 15 sec.)	0474		0	
Increments of 16 sec. (0 to 240 sec.)	0475		0	

These locations program the time in sec that a delayed report waits dormant in the buffer before it is sent to the receiving party. If a User Code holder resets the alarm within this time frame, the control panel clears the communicator buffer and does not report the alarm to the receiving party.

Refer to

- *Zone Options 1, page 121*

19.7 Sensor Watch Time

Item	Location	Option	Default	New
Increments of days (tens digit)	0476		0	
Increments of days (units digit)	0477		0	

The time set in these two locations determines the number of days (0 to 99) a zone can remain sealed before registering as a fault. This feature is active only when the system is disarmed. If a zone programmed for Sensor Watch is not unsealed and reset during this time, the FAULT indicator lights.

The Sensor Watch Time counter is active only when the control panel is disarmed. If the system is disarmed for 8 hours a day and the Sensor Watch Time is programmed for 1 day, a zone programmed for Sensor Watch registers a Sensor Watch Fault and sends the report (Contact ID Event Code 391) if it is not activated while disarmed within 3 days.

This feature is useful, for example, when someone places objects in the view of a motion detector, which prevents the detector from picking up movement.

19.8 Codepad Lockout Time

Item	Location	Option	Default	New
Codepad Lockout Time	0478	0 = No lockout 1 – 15 = Lockout time 10 – 150 sec. (Increments of 10 sec.)	0	

All codepads are locked out for the programmed time if an invalid code is entered more times than allowed by the code retry attempts programmed in Location 424. If the Codepad Lockout Time is programmed as 0, codepad lockout does not occur.

Refer to

– *Access Denied, page 135*

19.9 Siren Run Time

Item	Location	Option	Default	New
Siren Run Time	0479	0 = No Siren time 1 – 15 = Siren time 1 – 15 min. (increments of 1 min.)	5	

The Siren Run Time determines how long the horn speaker/siren operates during an alarm. You can program the Siren Run Time from 0 to 15 min in 1-min intervals.

19.10 Siren Sound Rate

Item	Location	Option	Default	New
Siren Sound Rate	0480	0 = Slowest frequency 15 = Fastest frequency	7	

The Siren Sound Rate varies the frequency of the siren tone slowest (0) and to fastest (15). The Siren Sound Rate does not change the frequency of the fire alarm tone.

19.11 Auto Arming Pre-Alert Time

Item	Location	Option	Default	New
Auto Arming Pre-Alert Time	0481	0 = No alert time 1 – 15 = Alert time 5 – 75 min. (increments of 5 min.)	1	

This location sets the time period during which the control panel warns you it is automatically armed in AWAY Mode. The codepad beeps once every second until the Pre-Alert Timer expires: the system then automatically arms itself in AWAY Mode. If you want the system to automatically arm in STAY Mode 1, enable Option 4 in Location 496 (refer to *Consumer Options 1, page 169*).

After the control panel is automatically armed in AWAY Mode or STAY Mode 1, Exit Time starts. If a valid User Code is entered during the Pre-Alert Time, the Auto Arming Time programmed in Locations 482 to 485 is extended by 1 hour.

If you want a programmable output to operate during the Auto Arming Pre-Alert Time, use Output Event Type 0,5 Auto Arm Pre-Arming Alert Time.

Refer to

- *Auto Arming Time, page 163*
- *Output Event Types, page 148*

19.12 Auto Arming Time

Item	Location	Option	Default	New
Hour of the day (tens digit)	0482		0	
Hour of the day (units digit)	0483		0	
Minute of the day (tens digit)	0484		0	
Minute of the day (units digit)	0485		0	

These locations specify the time of day the system automatically arms itself in AWAY Mode. Set this time in 24-hour format (for example, program 10:30 PM as 2230). If you want the system to arm in STAY Mode 1, select Option 4 in Location 496.

If forced arming is disabled for any zone, the automatic arming feature operates regardless of whether any zones are unsealed.

User Code 997 is reported when this feature is used. For partitioned control panels, both areas are automatically armed in AWAY Mode at the same time each day.

Refer to

- *Consumer Options 1, page 169*
- *Zone Options 2, page 122*

19.13 Auto Disarming Time

Item	Location	Option	Default	New
Hour of the day (tens digit)	0486		0	
Hour of the day (units digit)	0487		0	
Minute of the day (tens digit)	0488		0	
Minute of the day (units digit)	0489		0	

These locations specify the time of day the system automatically disarms itself. Set this time in 24-hour format (for example, program 10:30 PM as 2230).

User Code 997 is reported when this feature is used. For partitioned control panels, both areas are automatically disarmed at the same time each day.

19.14 Kiss-Off Wait Time

Item	Location	Option	Default	New
Increments of 500 ms (500 ms to 8 sec.)	0490		3	

This location sets the time the control panel waits for acknowledgment before resending a report. This timer applies only to Contact ID and SIA Format.

19.15 Speaker Beep Volume

Item	Location	Option	Default	New
Speaker Beep Volume	0491	0 = No Beeps 15 = Loudest Beeps	13	

This location allows you to adjust the speaker volume for remote radio operation.

20 System and Consumer Options

The locations in this section have up to four options. You can select any combination of these options by programming a single value. Calculate this value by adding the option bit numbers together.

20.1 System Options 1

Item	Location	Option	Default	New
System Options 1	0492	1 = Bosch Security Systems smart lockout allowed 2 = Warning device fault monitor 4 = Strobe indication for radio arm/disarm 8 = Assign button 4 on keyfob to operate STAY Mode 1	1	

1 - Smart Lockout Allowed

This feature allows the control panel to remove any zones that are programmed for lockout communication report from the lockout list when the sirens are running. This feature allows a monitoring station to receive zone alarm reports from previously locked out zones during siren time.

Refer to *Zone Options 1, page 121* for information on programming zones for lockout dialer and lockout siren.

Refer to *Swinger Shutdown Count for Report, page 126* to program the number of times the zone can report before being locked out.

2 - Warning Device (Output1-3) Monitor

If this option is selected, the control panel detects when Output1-3 Event Type, programmed as a Warning Device (Horn speaker, Siren Running, Strobe), is disconnected from the terminals. The FAULT indicator lights when the Warning Device is disconnected and is extinguished when the Warning Device is reconnected.

If an output is required to operate when the Warning Device is disconnected, use Output Event Type 1,6 Output 1 Fail.

4 - Strobe Indications for Radio Arm/Disarm

This option allows the strobe to indicate when the system is armed and disarmed when remotely operating the system using the RF Receiver.

Strobe Duration	System Status
3 sec	System disarmed
6 sec	System armed in AWAY Mode
6 sec	System armed in STAY Mode 1

Table 20.28: Strobe Indications for Remote Operations

8 - Assign Button 4 on Keyfob To Operate STAY Mode 1

This option allows Button 4 on the RFKF-FBS Keyfob to arm the system in STAY Mode 1.

20.2 System Options 2

Item	Location	Option	Default	New
System Options 2	0404	0 = All active and report 1 = Codepad Panic Alarm 2 = Codepad Fire Alarm 4 = Codepad Medical Alarm 8 = Reserved	0	
	0493	0 = All audible and report 1 = Codepad panic to be silent 2 = Codepad fire to be silent 4 = Codepad medical to be silent 8 = Access denied (code retries) to be silent	0	

1 - Codepad Panic Alarm

2 - Codepad Fire Alarm

4 - Codepad Medical Alarm

Use this function to switch the codepad Panic / Fire / Medical alarm on or off.

By default Location 0404 is as 0, the codepad Panic / Fire / Medical alarm is programmed as enabled, and the codepad outputs operate as programmed in the Location 493.

If this option is selected by programming Location 0404 as 1, 2, or 4, the codepad Panic / Fire / Medical alarm cannot be triggered; if this option is selected by programming Location 0404 as 7, no alarms can be triggered.

1 - Codepad Panic to Be Silent

If this option is selected, a Codepad Panic Alarm or Radio Remote Panic Alarm does not operate the horn speaker, the bell, or the strobe outputs. If this option is not selected, all three outputs operate after a Codepad Panic Alarm is activated when a user presses [1] and [3] or [STAY] and [AWAY] at the same time on the remote codepad. Selecting this option does not affect the operation of the communication report.

2 - Codepad Fire to Be Silent

If this option is selected, a Codepad Fire Alarm does not operate the horn speaker, the bell, or the strobe outputs. If this option is not selected, all three outputs operate after a Codepad Fire Alarm is activated when a user presses [4] and [6] at the same time on the remote codepad. Selecting this option does not affect the operation of the communication report.

4 - Codepad Medical to Be Silent

If this option is selected, a Codepad Medical Alarm does not operate the horn speaker, the bell, or the strobe outputs. If this option is not selected, all three outputs operate after a Codepad Medical Alarm is activated when a user presses [7] and [9] at the same time on the remote codepad. Selecting this option does not affect the operation of the communication report.

8 - Access Denied (Code Retries) to Be Silent

If this option is selected, a Codepad PIN Error Alarm does not operate the horn speaker, bell, or the strobe outputs. If this option is not selected, all three outputs operate after a Codepad PIN Error Alarm occurs. Selecting this option does not affect the operation of the communication report. If you want to disable the reporting of Access Denied reports, program Locations 424 as 0.

20.3 System Options 3

Item	Location	Option	Default	New
System Options 3	0494	1 = AC fail after 1 hr. (Disabled = after 2 min.) 2 = Ignore AC fail 4 = Pulse count handover allowed 8 = Handover delay to be sequential	8	

1 – AC Fail after 1 Hour

If this option is selected, the MAINS indicator flashes when the AC MAINS supply is disconnected. An AC Loss signal (Contact ID Event Code 301) is transmitted to the base station receiver after the AC MAINS supply is disconnected continuously for longer than 60 min.

If this option is not selected, the MAINS indicator flashes and an AC Loss signal (Contact ID Event Code 301) is transmitted to the base station receiver after the AC MAINS power is disconnected continuously for 2 min.

The MAINS indicator stops flashing when the AC MAINS supply is restored longer than 2 min.

An AC Loss Restore Report is transmitted to the base station receiver after the AC MAINS supply is restored continuously for more than 2 min regardless of whether this option is selected.

2 – Ignore AC Fail

If this option is selected, the MAINS indicator does not flash and the codepad does not beep every minute when the AC MAINS is disconnected from the control panel. If you want a programmable output to operate when the AC MAINS fails, use Output Event Type 1,4 AC Fail. An AC Loss report is transmitted to the base station receiver regardless of whether this option is selected.

4 – Zone Pulse Count Handover

If this option is selected, any zone pulse count readings are handed over and accumulate to any zone that is activated during the same arming cycle. Zone pulse count handover only operates with zone pulse count time options 8 to 15. Refer to *Zone Pulse Count*, page 120 and *Zone Pulse Count Time*, page 120 for more information.



Notice!

24-Hour Zones cannot receive any handover pulses from other zones. 24-Hour Zones can hand over pulses to other zones.

8 – Handover Delay to Be Sequential

If this option is selected, handover delay is sequential (that is, in zone numerical order from lowest to highest). If the sequence is broken before the Entry Time expires, an alarm occurs. If this option is not selected, handover delay follows the entry path if a Delay Zone is activated first. Refer to *Zone Types*, page 117 for more information about Handover Zones and Delay Zones.

Example:

Program zone 1 as Delay Zone and zone 2 and 3 as Handover Zone. When the Handover Delay to Be Sequential is selected and the zone 1 is activated:

If the zone 3 is activated first and the zone 2 is activated followed before the Entry Time of zone 1 expires, zone 3 alarms immediately, while zone 1 and zone 2 alarm after the Entry Time expired because zone 3 is higher than zone 2 in numerical order.

If the zone 2 is activated first and the zone 3 is activated followed before the Entry Time of zone 1 expires, zone 1 and zone 3 alarm after the Entry Time expired because the zones are activated in sequential.

20.4 System Options 4

Item	Location	Option	Default	New
System Options 4	0495	1 = Panel to power up disarmed (if power reset) 2 = Arm/disarm tracking on power up 4 = Onboard tamper enable 8 = Reserved	6	
	0109	System-wide Tamper (choose either 0 or 1 or 2 or 3): 0 = Tamper is ignored 1 = Silent Alarm for Tamper 2 = Audible Alarm for Tamper 3 = Show System Trouble for Tamper	7 (4 + 3)	
		4 = Codepad tamper enable		
		8 = Reserved		

1 - Panel To Power Up Disarmed

If this option is selected, the control panel powers up in the disarmed state when the battery and AC MAINS are reconnected after the system is powered down.

If this option is not selected, the system is always powered up armed in AWAY Mode.

2 - Arm/Disarm Tracking on Power Up

If selected, the control panel keeps its current armed status in non-volatile memory. If the control panel is restarted due to a power failure, the control panel returns to being armed or disarmed as it was before the power failed.

4 - Onboard tamper enable

If selected, the onboard tamper will create a fault by the defaulted setting in Location 109. If this option is not selected, the onboard tamper will be not triggered despite the settings in Location 109.

Example

If the system is disarmed when the system is powered down, the system returns to the disarmed state when the system is powered back up.

1, 2 - System-wide tamper

If this option is selected, the hardware tamper condition of system wide tamper, including onboard tamper, zone tamper, module tamper, enclosure tamper and codepad tamper can be programmed in the Location 109.1 and 109.2 as bit 0 and bit 1:

- 0 (0 0) = Off: tamper is ignored, even codepad tamper is enabled.
- 1 (0 1) = Silent: tamper is handled as a silent alarm
- 2 (1 0) = Audible: tamper is handled as an audible alarm
- 3 (1 1) = Trouble: tamper is handled as a system trouble

4 - Codepad tamper enable

If this option is enabled, a codepad panic alarm can be handled as Silent, Audible or Trouble when the codepad is tampered.

If this option is disabled, the codepad tamper condition is ignored.

20.5 System Options 5

Item	Location	Option	Default	New
System Options 5	0110	1 = Domestic Dial Fail to Report 2 = Installer Arm/Disarm Function 4 = Codepad alarm when siren is on 8 = Reserved	4	

1 - Domestic Dial Fail to Report

If this option is selected, a Communication Fail Report (Contact ID Event Code 354) is automatically sent when Domestic Dialing fails once the control panel is set up for domestic.

If this option is not selected, the CommFail Report is not sent when Domestic Dialing fails.

2 - Installer Arm/Disarm Function

If this option is selected, it is allowed to use installer command [Code][9][#] to arm/disarm the system in AWAY mode, or [Code][9][*] to arm/disarm the system in STAY 1 mode.

If this option is not selected, it is not allowed to use install command [Code][9][#] or [Code][9][*] to arm/disarm the system.

4 - Codepad alarm when siren is on

When this option is selected, the codepad buzzer gives an audible alarm indication when the siren is on.

20.6 Consumer Options 1

Item	Location	Option	Default	New
Consumer Options 1	0496	1 = Test reports only when armed 2 = Test report after siren reset 4 = Auto arm in STAY Mode 1 8 = STAY indicator to display day alarm status	0	

1 - Test Reports Only When Armed

If this option is selected, Test Reports (Contact ID Event Code 602) are only sent when the system is armed. It is no longer necessary to send a Test Report with an Arm/Disarm Report every day.

Most commercial premises are open during the working week, so a Test Report is not necessary because Arm/Disarm Reports are sent at the programmed time. If you want to manually send a Test Report, press and hold [9] button until two beeps sound.

Refer to *Test Reporting Time, page 136* to set the desired Test Report time. To set the first Test Report, refer to *Set the Number of Days until the First Test Report, page 52*.

2 - Test Report after Siren Reset

Select this option to force the control panel to send a Test Report (Contact ID Event Code 601) after the siren is reset. This can be used to indicate to the monitoring station that the control panel itself was not tampered with during the alarm period.

4 - Auto Arm in STAY Mode 1

Select this option if automatic arming in STAY Mode1 is preferred to automatic arming in AWAY Mode.

Program the time that the control panel automatically arms itself in Locations 482 to 485. Set the Auto Arming Pre-Alert Time in Location 481.

For partitioned control panels, both areas are automatically armed.

8 – STAY Indicator To Display Day Alarm Status

If this option is selected, the STAY indicator flashes once every 3 sec when Day Alarm is enabled.

Specify Day Alarm zones in Location 265.

You can turn Day Alarm on and off by holding down [4] for 2 sec. Three beeps indicate Day Alarm is turned on and two beeps indicate Day Alarm is turned off. Refer to *Day Alarm Operation*, page 109 for more information.

20.7 Consumer Options 2

Item	Location	Option	Default	New
Consumer Options 2	0497	1 = Codepad displays extinguish after 60 sec. 2 = Single button arming allowed (AWAY/ STAY Modes 1 and 2) 4 = Single button disarming allowed (STAY Modes 1 and 2) 8 = Alarm memory reset on disarm	2	

1 – Codepad Display Extinguish after 60 Sec

If this option is selected, all indicators on the codepad display are extinguished if a button is not pressed for 60 sec. The indicators lights again when there is an alarm (except a silent alarm), when a button is pressed on the codepad, when the AC MAINS fail beeps, or if the Entry Timer is activated.

2 – Single Button Arming Allowed

If this option is selected, the hold-down functions for arming in AWAY Mode, STAY Mode 1 and STAY Mode 2 are functional.

4 – Single Button Disarming Allowed

This option operates only when Option 2 in this location is also selected. This option allows hold-down functions for disarming from STAY Mode 1 and STAY Mode 2.

8 – Alarm Memory Reset on Disarm

If this option is selected, the alarm events memory clears from the codepad when the system is disarmed. If this option is not selected, the system must be armed and disarmed again to clear alarm memory from the codepad.

Refer to

- *Arm the System in AWAY Mode*, page 65
- *Arm the System in STAY Mode 1*, page 65
- *Arm the System in STAY Mode 2*, page 66

20.8 Consumer Options 3

Item	Location	Option	Default	New
Consumer Options 3	0498	1 = Codepad fault beeps allowed	5	

Item	Location	Option	Default	New
		2 = Use digit 3 for codepad duress alarm (instead of digit 9) 4 = Alarms activate sirens and strobe outputs in STAY Modes 1 and 2 8 = Zone tamper alarms to be silent		

1 – Codepad Fault Alarms Beep

If this option is selected, the FAULT indicator flashes and the codepad beeps once every minute until the user acknowledges a system fault. To acknowledge a new fault and stop the codepad from beeping once every minute, press [AWAY].

If this option is not selected, the codepad only the FAULT indicator flashes when a new fault occurs and the codepad does not beep once every minute.

2 – Digit 3 for Codepad Duress Instead of 9

If this option is selected, a user can add 3 (instead of a 9) to the code used to disarm the system to activate a Duress Alarm.

4 – Alarms Activate Sirens and Strobe Outputs in STAY Modes 1 and 2

Select this option if audible alarms are required when the system is armed in STAY Mode 1 or STAY Mode 2.

8 – Zone Tamper Alarms To Be Silent

This option allows Tamper Alarms, when Option 15 is programmed in Location 266 (refer to EOL Resistor Value), or Tamper Alarms on RF wireless devices to be silent when activated.

21 Partitioning

The control panel includes the partitioning feature, which can effectively transform your single control panel into two separate areas.

Normally, arming and disarming the system turns the entire system on or off. When the control panel is partitioned, you can arm or disarm an individual area without affecting the other area.

Partitioning is extremely useful when you want to secure sheds, dual occupancy dwellings, accessory dwellings, shops, and offices.

21.1 Programming

Locations 500 and 501 apply only to a partitioned Control Panel.

These locations have up to four options. You can select any combination of these options by programming a single value. Calculate this value by adding the option bit numbers together.

21.1.1 Partitioning Options 1

Item	Location	Option	Default	New
Partitioning Options 1	0500	1 = First to Disarm/Last to Arm reporting 2 = Reserved 4 = Reset sirens from any area allowed 8 = Reserved	0	

1 – First To Disarm/Last To Arm Reporting

Select this option if only one Arm/Disarm Report is required for a partitioned system.

Instead of sending individual Arm/Disarm reports for each area, an Arm Report is sent only after both areas are armed and a Disarm Report is sent as soon as one area is disarmed.

The reports are sent with the User Codes allocated to the specific area. You must allocate the user codes to the specific area and program user codes to have a priority level set with no arm/disarm reports.



Notice!

This option is applicable only when all User Codes have a priority level set with no arm/disarm reports. If User Codes have priority levels set to Arm/Disarm Reports, an Arm/Disarm report is always sent when any area is disarmed or armed, regardless of whether the area was first to disarm or last to arm.

4 – Reset Sirens from Any Area Allowed

This option applies only to a partitioned control panel. If this option is selected, any valid User Code from Area 1 or Area 2 can reset the horn speaker, strobe, or bell outputs while in alarm. This option does not allow a User Code allocated to one area to disarm another area.

21.1.2 Partitioning Options 2

Item	Location	Option	Default	New
Partitioning Options 2	0501	1 = Reserved 2 = User codes allowed to arm/disarm both areas at same time (Code [0][#]) 4 = Reserved 8 = Reserved	0	

2 – User Code Allowed to Arm/Disarm Both Areas at the Same Time

If this option is selected, any user allocated to both areas can arm or disarm both areas at the same time without entering the code at each area codepad.

If the user arms both areas at the same time and Option 1 is selected in Location 500, only an Arm Report for Area 2 is sent.

If the user disarms both areas at the same time and Option 1 is selected in Location 500, only a Disarm Report for Area 1 is sent.

Refer to

- *Arm or Disarm both Areas at the Same Time, page 59*

21.2 Partition Allocations

You can allocate up to 32 zones to each area for the control panel. The first 16 locations for each area are represented by the zone indicators on the ICON codepad. You can assign any zone to either area or both Area 1 and Area 2 to become a common zone.

Zones programmed as common zones report to the base station receiver on group zero (Area 1 - Group 1 and Area 2 - Group 2). Zones allocated to only one area report on the corresponding group number. Common zones, other than 24-Hour zone types, do not activate an alarm until both areas are armed in either AWAY Mode or STAY Mode 1.

Zone, user code, and codepad should be assigned to the correct area to operate. If a user code is assigned to an area only, the user code can only operate the assigned area on this area's codepad. For user code and authority level, refer to User Code Priority.

Example:

Two methods to arm/disarm both areas at the same time:

- [User Code] + [0][# / *]: this method requires to allocate the same user code to both areas as a common user code, then you can arm/disarm both areas at the same time with any area codepad. Refer to *Arm or Disarm both Areas at the Same Time, page 59* for more information.
- [User Code] + [# / *]: this method requires to allocate the same user code to both areas as a common user code, and allocate the same codepad to both areas as a common codepad, then you can arm/disarm both areas at the same time with the common user code and common codepad.

Two methods to arm/disarm single area:

- [User Code] + [01] / [02] + [# / *]: this method requires to allocate the same user code to both areas as a common user code, and you can arm/disarm any single area with any codepad.
- [User Code] + [# / *]: this method requires to allocate the user code and codepad to either area, you can only arm/disarm the single area with corresponding user code and codepad.

21.2.1 Zone Area Assignments

Item	Location	Default	New	Item	Location	Default	New
Zone 1 Area	0502	1		Zone 2 Area	0503	1	
Zone 3 Area	0504	1		Zone 4 Area	0505	1	
Zone 5 Area	0506	1		Zone 6 Area	0507	1	

Item	Location	Default	New	Item	Location	Default	New
Zone 7 Area	0508	1		Zone 8 Area	0509	1	
Zone 9 Area	0510	1		Zone 10 Area	0511	1	
Zone 11 Area	0512	1		Zone 12 Area	0513	1	
Zone 13 Area	0514	1		Zone 14 Area	0515	1	
Zone 15 Area	0516	1		Zone 16 Area	0517	1	
Option							
0 = Zone area not assigned 1 = Zone assigned to Area 1				2 = Zone assigned to Area 2 3 = Zone assigned to both Area 1 and Area 2			

Example

Program Location 502 as 3, Location 503-509 as 1, Location 510-517 as 2, Zones 1-8 are allocated to Area 1 to appear as zones 1-8. Zones 1, 9-16 are allocated to Area 2 to appear as zones 1, 9-16. In each area's codepad, zone's original No is displayed. In this example, if Zone16 is activated, in Area 2's ICON codepad, Zone 16 indicator lights. Programming the same zone into more than one area specifies that zone as a common zone.

Wireless zones and wired zones can share the same zone numbers. When the wireless zones are enables, the wired zones allocated to the same numbers cannot respond anymore.

21.2.2 Zone Area Assignments (Zone 17-32)

Item	Location	Default	New	Item	Location	Default	New
Zone 1 Area	10046	1		Zone 2 Area	10047	1	
Zone 3 Area	10048	1		Zone 4 Area	10049	1	
Zone 5 Area	10050	1		Zone 6 Area	10051	1	
Zone 7 Area	10052	1		Zone 8 Area	10053	1	
Zone 9 Area	10054	1		Zone 10 Area	10055	1	
Zone 11 Area	10056	1		Zone 12 Area	10057	1	
Zone 13 Area	10058	1		Zone 14 Area	10059	1	
Zone 15 Area	10060	1		Zone 16 Area	10061	1	
Option							
0 = Zone area not assigned 1 = Zone assigned to Area 1				2 = Zone assigned to Area 2 3 = Zone assigned to both Area 1 and Area 2			

21.2.3 Codepad assignment

Item	Location	Default	New	Item	Location	Default	New
Codepad 1 Area	0518	1		Codepad 2 Area	0519	0	
Codepad 3 Area	0520	0		Codepad 4 Area	0521	0	
Option							

Item	Location	Default	New	Item	Location	Default	New
0 = Codepad area not assigned 1 = Codepad assigned to Area 1				2 = Codepad assigned to Area 2 3 = Codepad assigned to both Area 1 and Area 2			

Any codepad can be assigned to any area or both areas with a partitioned Control Panel.

21.2.4 User code area assignments

Item	Location	Default	New	Item	Location	Default	New
User Code 1	0534	1		User Code 2	0535	1	
User Code 3	0536	1		User Code 4	0537	1	
User Code 5	0538	1		User Code 6	0539	1	
User Code 7	0540	1		User Code 8	0541	1	
User Code 9	0542	1		User Code 10	0543	1	
User Code 11	0544	1		User Code 12	0545	1	
User Code 13	0546	1		User Code 14	0547	1	
User Code 15	0548	1		User Code 16	0549	1	
User Code 17	0550	1		User Code 18	0551	1	
User Code 19	0552	1		User Code 20	0553	1	
User Code 21	0554	1		User Code 22	0555	1	
User Code 23	0556	1		User Code 24	0557	1	
User Code 25	0558	1		User Code 26	0559	1	
User Code 27	0560	1		User Code 28	0561	1	
User Code 29	0562	1		User Code 30	0563	1	
User Code 31	0564	1		User Code 32	0565	1	
Option							
0 = User code not assigned 1 = User code assigned to Area 1				2 = User code assigned to Area 2 3 = User code assigned to both Area 1 and Area 2			

Locations 534 to 565 are used to assign each User Code to one or two area areas of a partitioned Control Panel. Enter a value from 0 to 3 into each of these locations to assign the User Code holder to the areas it must operate. You can allocate multiple User Codes to the same area.

User codes and RF user codes can share the same user code numbers. When the RF user codes is activated, the user codes allocated to the same numbers can also be used.

21.2.5 User code area assignments (User code 33-64)

Item	Location	Default	New	Item	Location	Default	New
User Code 33	12970	1		User Code 34	12971	1	
User Code 35	12972	1		User Code 36	12973	1	

Item	Location	Default	New	Item	Location	Default	New
User Code 37	12974	1		User Code 38	12975	1	
User Code 39	12976	1		User Code 40	12977	1	
User Code 41	12978	1		User Code 42	12979	1	
User Code 43	12980	1		User Code 44	12981	1	
User Code 45	12982	1		User Code 46	12983	1	
User Code 47	12984	1		User Code 48	12985	1	
User Code 49	12986	1		User Code 50	12987	1	
User Code 51	12988	1		User Code 52	12989	1	
User Code 53	12990	1		User Code 54	12991	1	
User Code 55	12992	1		User Code 56	12993	1	
User Code 57	12994	1		User Code 58	12995	1	
User Code 59	12996	1		User Code 60	12997	1	
User Code 61	12998	1		User Code 62	12999	1	
User Code 63	13000	1		User Code 64	13001	1	
Option							
0 = User code not assigned 1 = User code assigned to Area 1				2 = User code assigned to Area 2 3 = User code assigned to both Area 1 and Area 2			

22 B520 programming

Item	Location	Option	Default	New
B520 module 1	0412	0 = Disable	2	
B520 module 2	0413	1 = Module enable	2	
B520 module 3	0414	2 = Tamper enable	2	
B520 module 4	0415	4 = Battery 2 enable	2	

The B520 Auxiliary power supply module connects to the SDI2 bus of the control panel. It provides a supervised 12 Volt DC 2.5 Amp auxiliary power supply to 12 VDC devices or to SDI2 modules, such as B901 door controllers, B228 modules.

Up to 4 B520 modules can be supported.

Module enable

When the module is enable, it can supervise the SDI2 module.

Tamper enable

When the tamper input is enabled and connected to a tamper switch, the control panel creates a tamper event when the enclosure door is opened, or when the enclosure is removed from the wall.

Battery 2 enable

By default one battery is connected to the B520.

When battery 2 is enabled, two batteries can be connected to the module as the standby power source.

23 Daylight Saving Time Programming

Item	Location	Option	Default	New
Daylight Saving Time (DST) Option	0416	0 = No DST 1 = Australia 2 = New Zealand 3 = Customized DST	0	
Customize DST + 1 hour Month	0417	0 = No DST 1 to 12 = January to December	0	
Customize DST + 1 hour Day of Week (DOW) ordinal	0418	0 = No DST 1 = first 2 = second 3 = third 4 = fourth 5 = last	0	
Customize DST + 1 hour Day of Week (DOW)	0419	0 = Sunday 1 = Monday 2 = Tuesday 3 = Wednesday 4 = Thursday 5 = Friday 6 = Saturday	0	
Customize DST - 1 hour Month	0420	0 = No DST 1 to 12 = January to December	0	
Customize DST - 1 hour Day of Week (DOW) ordinal	0421	0 = No DST 1 = first 2 = second 3 = third 4 = fourth 5 = last	0	
Customize DST - 1 hour Day of Week (DOW)	0422	0 = Sunday 1 = Monday 2 = Tuesday 3 = Wednesday 4 = Thursday 5 = Friday 6 = Saturday	0	

The daylight saving time setting determines when daylight saving time will start and end. Therefore, date and time has to be set correctly.

Daylight saving time settings are available for Australia and New Zealand. Additionally, a daylight saving time setting can be configured individually.

Daylight saving time starts and ends according to the daylight saving time settings of a certain region. Individually configured daylight saving time starts and ends at 2 a.m.

Depending on the region, set the codepad time one hour forward for Daylight Saving Times beginning, and set the codepad time one hour back for Daylight Saving Times ending. Program the month, day of week ordinal and day of week for Daylight Saving Times to begin or end.

When the Location 0416 is programmed as 1 for Australia, Daylight Saving Times begins at 2am on the first Sunday in October when the codepad time is set forward one hour. Daylight Saving Time ends as 2am (3am Daylight Saving Time) on the first Sunday in April when the codepad time is set back one hour.

When the Location 0416 is programmed as 2 for New Zealand, Daylight Saving Times begins at 2am on the last Sunday in September when the codepad time is set forward one hour. Daylight Saving Time ends as 2am (3am Daylight Saving Time) on the first Sunday in April when the codepad time is set back one hour.

24 Door programming

Configure door parameters via A-Link Plus, or installer menu [9][Door] through Alphanumeric codepad.

24.1 Door 1 - 4 parameters

User below parameters to configure each door.

24.1.1 Door Name

Enter up to 12 characters of text to describe the door.

24.1.2 Door Enable

Default: Disable

Selections:

Disable. Door module is disabled.

Enable. Door module is enabled for the selected door.

Use this parameter to select the door for you to operate door commands.

Door Enable can also be programmed via the Location 13098.

Item	Location	Option	Default	New
Door enable	13098	0 = All doors disabled 1 = Door 1 enable 2 = Door 2 enable 4 = Door 3 enable 8 = Door 4 enable 15 = All doors enabled	0	

24.1.3 Enclosure Tamper

Default: No

Selections:

Yes - enable tamper input (T+).

No - disable tamper input (T+).



Notice!

Enclosure Tamper parameter configures reader tamper input, T+

For the B901 Access Control Interface module, this parameter enables the reader tamper input (T+ terminal). There is no enclosure tamper input on these modules.

Shorting the B901 tamper input (T+) to common (COM) creates a tamper event for the B901 module.

24.1.4 Enter Request

Default: No

Selections:

Yes: Request to Enter (RTE) events are logged and reported.

No: Request to Enter (RTE) events are not logged and reported.

This parameter determines if Request to Enter (RTE) events from this access control module are logged and reported by the control panel.

SIA format is supported. Contact ID is not supported. If Yes is selected, RTE or REX events with contact ID is not reported.

24.1.5

Exit Request

Default: No

Selections:

Yes: Request to Exit (REX) events are logged and reported.

No: Request to Exit (REX) events are not logged and reported.

This parameter determines if Request to Exit (REX) events from the access control module are logged and reported by the control panel.

SIA format is supported. Contact ID is not supported. If Yes is selected, RTE or REX events with contact ID is not reported.

24.1.6

Disarm On Open

Default: No

Selections:

Yes: the door's entry area only disarms after access has been granted to a user with disarm authority, and the door zone has been faulted (door was opened).

No: the entry area disarms when a user with a valid disarm level presents a valid token/card, whether or not the door has been opened.

Use this program item to determine whether the door needs to be physically opened prior to disarming the entry area upon a valid access request. The user initiating the access request must have access levels that allow disarming with the card ID.

Refer to

- *Entry Area, page 183*

24.1.7

Auto Door

Default: No

Selections:

- Yes - when the area assigned in the Entry Area parameter is Off (disarmed), the door state is automatically Unlocked.
- No - when the area assigned in the Entry Area parameter is Off (disarmed), the door state is not changed. The previous state of the door remains the same (locked or unlocked).

Use this parameter to unlock the door (latched shunt and strike) automatically when the Entry Area parameter is Off (disarmed). The door re-locks when the area is set to AWAY arm or STAY arm.

This parameter does not affect the armed state of the area. When the area assigned to the door Entry Area parameter is armed in AWAY Mode or STAY Mode, the door state will automatically change to locked regardless of the Auto Door parameter setting (Yes or No).



Notice!

Use Secure Door to override unlocked

You cannot manually override the unlocked state. Use Secure Door to override this setting.

24.1.8

Fire Unlock

Default: No

Selections:

Yes: Fire in any area unlocks the door.

No: Door remains in its current mode upon a Fire or Gas alarm.

Use this parameter to unlock the door strike output and shunt the door point when a Fire alarm occurs. A Door Unlock event will process. This feature overrides a Secure Door state and a Locked Door state. Once a Fire Unlock occurs, you must manually re-lock the door from a codepad.

**Notice!**

This unlocks the door regardless of the armed state.

**Notice!**

You can return doors activated by Fire Unlock to a normal state through the codepad with [9][1][#] command to lock the door.

24.1.9**Deactivate on Open**

Default: Yes

Selections:

Yes: Strike deactivates when the door zone is faulted (door is opened) after access is granted.

No: Strike remains activated for the amount of the programmed strike time or strike deactivates when the door zone is faulted (door is opened) and restored (closed) after access is granted, whichever happens first.

This parameter determines whether the strike deactivates immediately upon physically opening the door (door zone is faulted).

To reduce false alarms when the door "bounces" open, leave this parameter at Yes (default).

24.1.10**Access Denied (No Entry) Event**

Default: Yes

Selections:

Yes: ACCESS DENIED events logged and reported.

No: ACCESS DENIED events are not logged and reported.

This No Entry parameter determines if ACCESS DENIED events from this access control module are logged and reported by the control panel.

A No Entry (ACCESS DENIED) event may be caused by:

- invalid or unknown user ID or secured door, or incorrect authority level
- request to enter/exit (RTE/REX) for secured door

24.1.11**Access Granted Event**

Default: Yes

Selections:

Yes: ACCESS GRANTED and DOOR REQUEST events logged and reported.

No: ACCESS GRANTED and DOOR REQUEST events are not logged or reported.

This parameter determines if ACCESS GRANTED and DOOR REQUEST events from this access control module are logged and reported by the control panel.

An ACCESS GRANTED event can be initiated by:

- a valid read of a credential (card or token)
- a valid door state changed at the keypad

24.1.12

REX shunt only

Default: No

Selections:

Yes - Programmed shunt time will activate so door can be manually opened.

No - Request to Exit (REX) automatically activates the programmed strike and shunt time.

Use this program item to disable the strike, but still activate the programmed shunt time upon a Request to Exit an area.

Use this parameter when a user can open a door manually without relying on a token/card to activate the strike (such as with a "push bar").

When this REX Shunt Only parameter is set to Yes, Request to Exit events are not logged or reported.

24.1.13

RTE shunt only

Default: No

Selections:

Yes - when the RTE Input (Request To Enter) on the access control module is shorted the door point is shunted for the duration of Shunt Time. The strike output is not activated.

No - when the RTE Input on the access control module is shorted the door point is shunted for the duration of Shunt Time. The strike output is activated for the duration of Strike Time.

Use this parameter when a user can open a door manually without relying on a token/card to activate the strike (such as with a "push bar").



Notice!

No RTE Events when RTE Shunt Only is set to Yes

When RTE Shunt Only is set to Yes, the control panel does not log or report Request To Enter events when the RTE Input is shorted.

24.1.14

Door Zone Debounce

This parameter sets the length of time the access control module scans a door zone before initiating an alarm.

Default: 600 ms

Selections:

Debounce		
300 ms	1800 ms	3300 ms
600 ms	2100 ms	3600 ms
900 ms	2400 ms	3900 ms
1200 ms	2700 ms	4200 ms
1500 ms	3000 ms	4500 ms

24.1.15

Entry Area

Default: 1

Selections: 1, 2

Assign an area to the door controller. This is the area a user exit when initiating a request to exit (REX).

24.1.16

Strike Time

Default: 10

Selections: 1 - 240 seconds

The strike activates for the amount of time programmed.

Enter the amount of time the output for the strike activates to allow a user to open the door. The strike activates upon a valid credential (card), Request to Enter (RTE), Request to Exit (REX), and the codepad [CYCLE DOOR] function.

24.1.17

Buzz Time

Default: 2

Selections: 0, 1 - 240 seconds

0: no buzz time for this door.

1 - 240: The buzzer sounds for seconds programmed.

Enter the seconds that the buzzer output activates to notify the user that the strike is activated and the door is ready to open. The buzzer stops when the door is opened.

A separate buzzer is required.

Many readers have an internal buzzer that is not affected by Buzz Time.

24.1.18

Shunt Time

Default: 10

Selections: 0 - 254

You can set the door Shunt Time in seconds, minutes or hours.

Enter the length of time the door is shunted to allow a user to open the door without causing the point to go into Trouble, Alarm, or faulted condition.



Notice!

For SDI2 connected doors, a panel without firmware supporting the larger Shunt Times will apply entries above 240 as seconds.

Selection	Time Value
0-240	0-240 seconds
241	5 minutes
242	10 minutes
243	20 minutes
244	30 minutes
245	40 minutes
246	50 minutes
247	60 minutes
248	2 hours
249	3 hours
250	4 hours
251	5 hours
252	6 hours
253	7 hours

254	8 hours
-----	---------

24.1.19

Extend Time

Default: 10

Selections: 0, 1 - 30 seconds

Enter the amount of time (1 to 30) to prolong strike, buzz, and shunt activation when the shunt time expires and a door remains open. At the end of the programmed extend time, the buzzer continues to buzz until the door closes. In addition, if programmed, the point assigned to the door indicates a Trouble, Alarm, or Fault at the codepad.

Regardless of the door zone programming, the system generates a Trouble Door Left Open event while the system is disarmed, and an Alarm Door Left Open event when the system is armed and the door is held open beyond extend time. "Door Closed - Restoral" events are generated after the door is held open past extend time and the door has returned to normal. Enter 0 to disable extend time. The Trouble Door Left Open event, the Alarm Door Left Open event, and the warning at the codepad are all disabled.

24.1.20

Failure Mode

Default: Fail secure

Selections:

Fail Secure. Door remains locked to ensure continued security.

Fail Safe. Access module releases door locking mechanism to allow passage.

This parameter sets the behavior for the Access Module when it loses communication with the control panel and enters Failure Mode.

This configuration option only applies to the SDI2 B901 access control modules.

24.1.21

RTE Input Debounce

This parameter sets the length of time the access control module scans the RTE input before initiating a request to enter (RTE) event.

Default: 600 ms

Selections:

Debounce		
300 ms	1800 ms	3300 ms
600 ms	2100 ms	3600 ms
900 ms	2400 ms	3900 ms
1200 ms	2700 ms	4200 ms
1500 ms	3000 ms	4500 ms

24.1.22

REX Input Debounce

This parameter sets the length of time the access control module scans the REX input before initiating a request to exit (REX) event.

Default: 600 ms

Selections:

Debounce		
300 ms	1800 ms	3300 ms

Debounce		
600 ms	2100 ms	3600 ms
900 ms	2400 ms	3900 ms
1200 ms	2700 ms	4200 ms
1500 ms	3000 ms	4500 ms

24.2 Global access settings

User global access settings to select one card type to operate all door functions. Site Code and Card Data are stored under the User Property.

24.2.1 Card Type

Default: 26 bit

Selections:

- 26 bit
- 37 bit no site code
- 37 bit with site code

This parameter specifies the card format used for all of the door controllers.

Default Site Codes for card types

26 bit: default site code is blank.

37 bit no site code: default site code is blank. The site code is not configurable (Site Code parameter is grayed out).

37 bit with site code: default site code is blank.

24.2.2 Site Code

In A-Link Plus, go to **Access** -> **User Property** for Site Code programming.

Default (per card type):

- 26 bit card type: blank
- 37 bit no site code card type: blank
- 37 bit with site code card type: blank

Selections (per card type):

- 26 bit card type: 0 to 254
- 37 bit no site code card type: blank
- 37 bit with site code card type: 0 to 65534

For the 37 bit no site code card type, the Site Code parameter is grayed out in A-Link Plus.

For 26 bit card type and 37 bit with site code card type, enter the site code (facility code) as shown on the card packaging.

To get the site code and card data using A-Link Plus, add the card into the system at the premises using a reader and keypad. Then connect to the panel with A-Link Plus and receive the panel account.

24.2.3 Card Data

In A-Link Plus, go to **Access** -> **User Property** for Card Data programming.

Default: blank

Selections:

- 26 bit card type: 0 to 65534, blank
- 37 bit no site code card type: 0 to 34359738366, blank
- 37 bit with site code card type: 0 to 524286, blank

Enter the card data printed on the card.
 For the 26 bit site code and 37 bit with site code card type, enter the Site Code before you enter Card Data.



Notice!

When switching between Card Type, the data stored in Site Code and Card Data may not be compatible or display properly in A-Link Plus.
 Once the Card Type is switched, make sure to clear the invalid data, and get the new site code and card data.

How to get card information

You can get the card site code and card data from the card packaging, from A-Link Plus, or from the TEXT LCD codepad as the following example.

Example: Check the site code and card data of the user credential 32

1. Enter the master code, then press [1][#].
2. Select [U32] and press [#] to select user 32 as the user number.
3. Select [2-Credential] and press [#].

Credential 32 information displays on the screen.

24.3 Codepad assigned door

Default: 0: Not assigned (No Door)

Selections:

- No Door - No door controller assigned to the codepad.
- Door 1 to Door 4 - assign a door controller to the codepad by selecting its number.

Select the door controller (Door ##) the codepad uses for adding cards and cycling door.

When no door controller is assigned to the codepad, users can not control any door through the codepad using the cycle door command [Code][9][0][#].

When the door controller is assigned to the codepad(s), users can cycle the door only through the assignerd codepad(s).

Until a door controller is assigned, users with the master code authority can not use the code to assign cards with the Add/Change User command [Code][1][#].

Setting this parameter to No Door disables:

- the Cycle Door operation
- the Add Card option of the Add/Change User command

This parameter can also be programmed in Locations 0522 to 0525.

Item	Location	Option	Default	New
Codepad 1 door	0522	0 = Door 1	15	
Codepad 2 door	0523	1 = Door 2	15	
Codepad 3 door	0524	2 = Door 3	15	
Codepad 4 door	0525	3 = Door 4	15	
		15 = No door is assigned	15	

25 Schedules

Recommend to configure schedules parameters via A-Link Plus.

25.1 Schedule settings

Use the Schedule settings (SKEDS) module to program the control panel to automatically execute functions-that are otherwise initiated by the end user at the codepad. Each schedule can be programmed to occur at a specific time on a specific date or day of the week.

A schedule (Sked) can be edited from the codepad if Time Edit (On date) is set to Yes. The date and time can be changed.

Each schedule number can be programmed with one of the functions for the Function. A function is what is executed. In addition to the function, a choice must be made to what is affected by the function. (for example, when choosing a Unlock Door Sked, the unlock door is the function while the areas that are being chosen to become unlocked are what is affected).

Each schedule (Sked) can be programmed with one of the Holiday options. The Holiday options can be used to execute the schedule on the Holidays in addition to the Date or Day(s) of the Week, or, they can be used to prevent the Sked from executing on the Holidays.

25.1.1 Schedule

This is for defaulted Schedule number 1 to 8.

25.1.2 Function

Default: No Schedule

Selections: See list of Sked functions tab, including Lock Door, Unlock Door, Secure Door, Activate user (group), Deactivate user (group).

Lock Door - This function emulates the Lock Door codepad function. This function returns the door(s) programmed in Doors to their normal locked state.

Unlock Door - This function emulates the Unlock Door codepad function. This function unlocks the door(s) programmed in Doors.

Secure Door - This function emulates the Lock Door codepad function. This function returns the door(s) programmed Doors to their normal locked state.

Activate / Deactivate user (group) - This function enable or disable the users to operate as grouped in the User group. In the Period setting, when the Forever box is ticked, the function is effective from the time to start.

Select the function name from the drop down list that you want this Sked to execute.

A-Link Plus automatically displays the available parameter choices and range fields for this function. (e.g. A list of check boxes are automatically displayed for the doors when choosing the lock door function.

25.1.3 Sunday through Saturday

Default (Sunday through Saturday): No

Selections: Yes, No

These seven day of the week parameters select the days of the week that the Sked is active.

25.1.4 On date

Enable or Disable the Schedule Date entry.

Default: No

Selections:

Yes. The user can edit the time of this Sked from the codepad or Date entry.

- With the codepad, it appears in the Date Format [MMDD] display under the Schedule menu.
- With the A-Link Plus, the Date entry becomes editable.

No. The user cannot edit the time of this Sked from the codepad, and it does not appear in the displays. And the Date entry in A-Link Plus is grayed out.

Select whether the user can edit the time of this Sked from the codepad or A-Link Plus.

25.1.5

Time

Default: Disable

Selections: Disable, HH:MM (hours and minutes)

Enter the time that the Sked executes using a 24-hour clock (for example, 2:45 PM is entered as 14:45).

No schedule function displays "." as grayed out.

Follow these steps to program a time:

1. Double-click on the field corresponding to the Sked you wish to program the time for.
2. Select one function except the No Schedule function. The time field will become active.
3. Click inside the time field and either use the up and down arrows to set the time, or type in the desired time.
4. Click on OK.

25.1.6

Date

Default: Disable

Selections: Disable, Day/Month

Enter the date that the Sked executes.

25.1.7

Schedule Holiday option

Default: Disable

Selections:

- Ignore holiday setting, Holidays identified in the specific Holiday setting is not effective.
- Holiday will do the schedule, it is to allow Sked operates on Holidays programmed in the Holiday setting.
- Holidays are exception day, it is to prevent this Sked from operating on the Holidays identified in the specific Holiday setting.

If no Days of the Week are programmed, this Sked operates only on the Holidays programmed in the Holiday setting used with this Sked. This Sked also operates if the Holiday falls on a day of the week that is programmed

25.2

User group Holiday setting

25.2.1

User group

Use the parameter to select users for the group 1 - 8.

Selections: Up to 64 users can be set for each user group.

In the Schedules -> Schedule settings -> Function, Select Active user (group) for Output settings. The user credentials (passcode, access card, and RF keyfob) for the users assigned to the user group are enabled for the Output settings.

25.2.2

Holidays

Use this parameter to schedule holidays.

In the Holidays input dialogue, you can schedule up to 365 (366 for leap years) as holidays. The holiday schedule dialog looks like a calendar. It shows the current month and year by default. The year is for reference purposes only. Only month and day data is sent to the control panel.

When you set a day on the calendar as a holiday that day is a holiday every year thereafter. For example, if you set October 01, 2024, as a holiday, October 01 is a holiday in 2025, 2026, and so on. The day of the week changes according to the year.

25.3

Enable Schedule

Default: Disable

Selections:

Enable - Enable the selected schedule 1 to 8.

Disable - Disable the selected schedule.

Enable schedule 1 to 8 can also be programmed in Location 14197 - 14198.

Item	Location	Option	Default	New
Schedule enable	14197 - 14198	0 0 = All schedules disabled 1 0 = Schedule 1 enable 2 0 = Schedule 2 enable 4 0 = Schedule 3 enable 8 0 = Schedule 4 enable 0 1 = Schedule 5 enable 0 2 = Schedule 6 enable 0 4 = Schedule 7 enable 0 8 = Schedule 8 enable 15 15 = All schedules enabled	0 0	

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Text Information

Text items are for TEXT codepad only.

You can edit up to 18 alphanumeric for company name or other key text from location 2500 to 2535 as home message. And you can edit up to 12 alphanumeric for per zone name and user name from location 2536 to 3687.

**Notice!**

Instead of TEXT codepad, edit text via A-Link Plus is more convenient.

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