



INSTALL GUIDE

Go!Control



Installation and Programming

WIRELESS SECURITY SYSTEM



WARNING: OWNER'S INSTRUCTION NOTICE
Not to be removed by anyone except occupant

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INTRODUCTION

This 2GIG security system is a fully supervised wireless security system that you can program remotely using a smart phone or tablet. The 2GIG Control Panel and security system incorporates the most advanced and sophisticated features available. The system (including the Control Panel and peripheral devices) can be expanded and customized to fit each installation's specific needs.

Designed to meet or exceed the requirements for ETL Listed residential security equipment, the system also conforms to the Security Industry Association's Control Panel Standard ANSI/SIA CP-01-2013.

NOTE: Failure to install the Control Panel and accessories in accordance with ETL requirements listed in this manual voids the ETL listing mark.

Many insurance companies offer discounts on homeowners' and renters' policies when a security system is installed. Discount credits vary with different companies and generally increase in savings with an increase in the level of protection. Inform the user to ask their insurance agent about savings available.

This security system is ETL Listed. For use as a smoke alarm system, there must be at least one smoke detector programmed into the Control Panel. Many insurance companies require meeting these requirements to qualify for a discount. Use only approved model smoke detectors with this Control Panel.

Fire warning systems installed in the United States must be installed in accordance with the national Fire Alarm Code, ANSI/NFPA 72, and the National Electrical Code, ANSI/NFPA 70.

NOTE: Some cities and municipalities may require an alarm system permit. Check with the local authorities before installing this system.

IMPORTANT: If this installation is a commercial installation, please inform the customer (or end user) that *commercial* Control Panels are for use only as burglar alarm systems (and not for fire protection) under UL 1610.

For additional commercial regulatory information, see "Recommended Commercial Installations" on page 15, "Commercial Control Panel Diagram" on page 16 and "Commercial Regulatory Listings" on page 62.

Operating and Storage Temperature

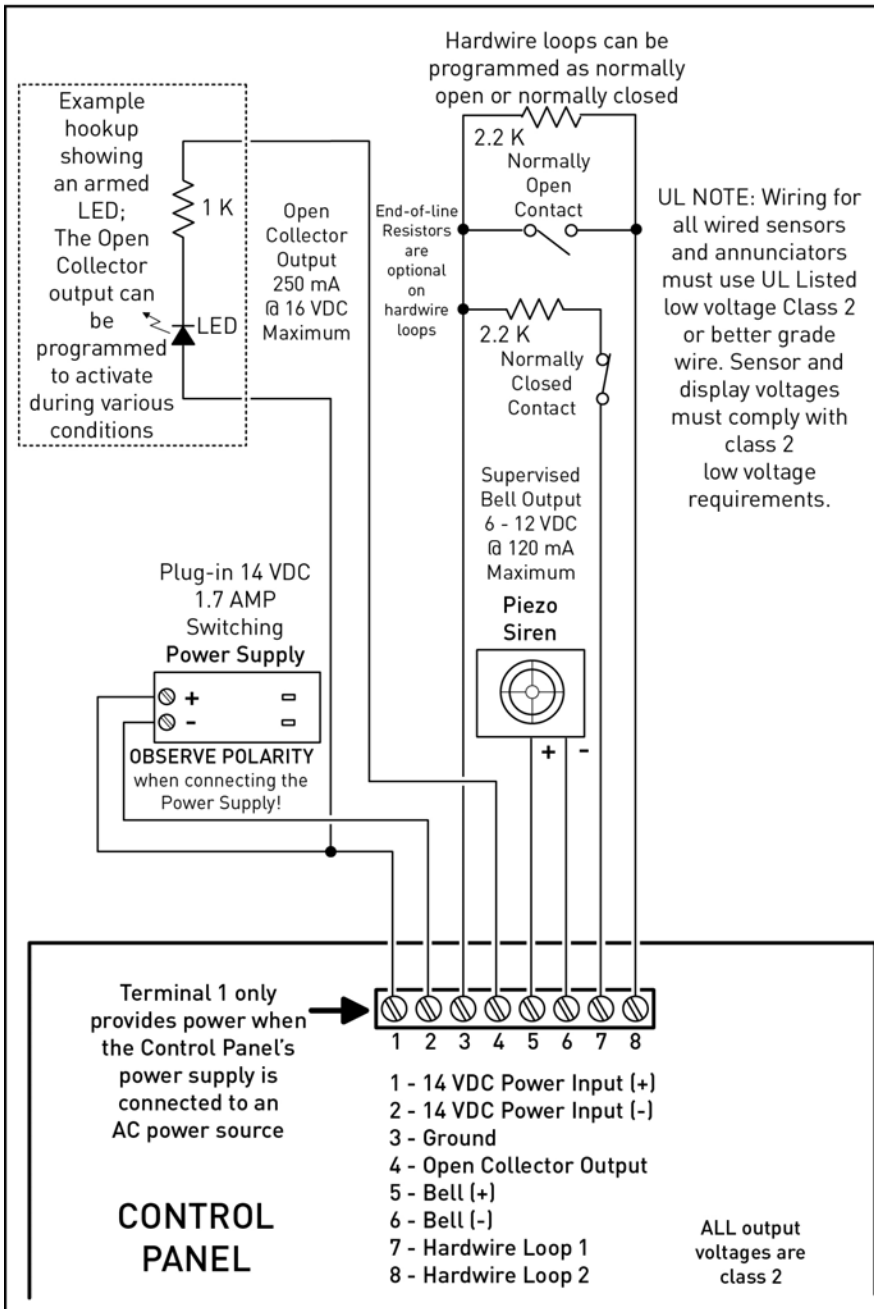
The recommended storage temperature for all Control Panels is -10°C to 60°C (14°F to 140°F).

For optimal Control Panel use, operation temperature is 0°C to 49°C (32°F to 120°F).

NOTE: No altitude range limitations have been reported while transporting Control Panels.

CONTROL PANEL WIRING DIAGRAM

The following is for reference only. Refer to Addendum for the latest installation and wiring diagram.



SYSTEM OVERVIEW

The system's 2GIG Control Panel features a color touch screen display that allows control of all system functions and programming. The display shows both the installer and subscriber the system and installation status. The 2GIG Control Panel provides touch menus and voice prompts that make installation, programming, and operation easy. No other system on the market can compare with the 2GIG Control Panel's ability to be fully operated and programmed remotely with use of a smart phone or tablet.

The system supports 48 wireless sensors of various types including 8 keyfobs, 4 keypads, 2 hard-wire loops, 15 sensor response types, a supervised bell output, and a programmable solid-state control output. An on-board digital communicator reports alarms and trouble to a Central Station receiver via the standard telephone network and a 2-way voice communication with the Central Station.

An internal 345 MHz narrow-band radio receiver detects signals from wireless system sensors.





When the optional Model 2GIG-XCVR2 900 MHz transceiver is installed, it sends and receives signals with wireless touch screen keypads and image sensors. Touch screen keypads allow remote control of the system through the same graphic interface design as the 2GIG Control Panel.

For enhanced operation, an optional cell radio module can be installed in the field. With the optional cell radio module installed, the 2GIG system has wireless Central Station reporting capability. 2-way voice communication with the Central Station can also go "over-the-air" through the cell radio module.

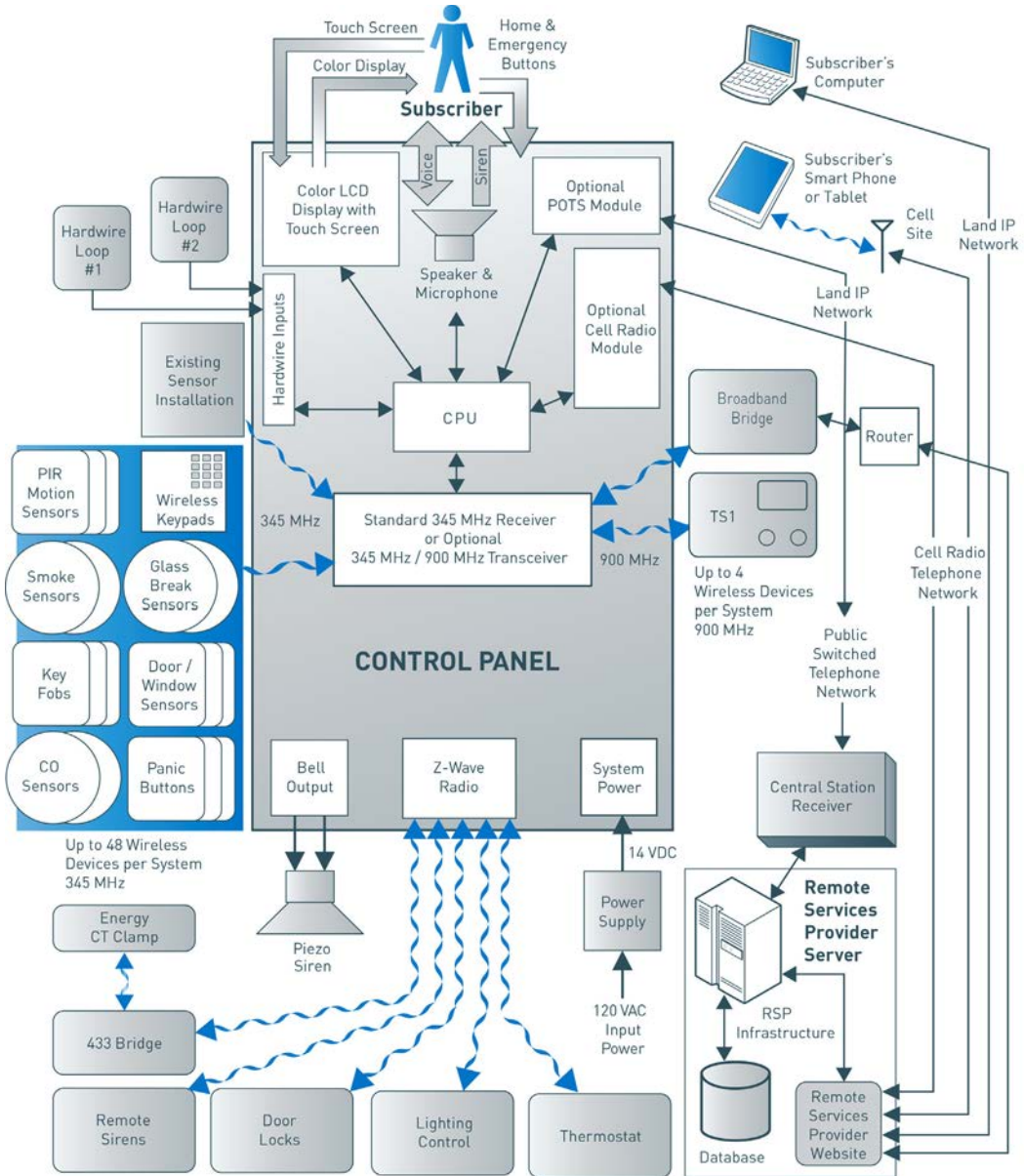
The optional cell radio module also allows 2-way communications with the subscriber's service provider. Through this server, subscribers can query and control their system using a computer browser from anywhere in the world. The service provider server can send messages, time corrections, and software updates to the Control Panel. Special messages from the server are displayed to the subscriber on the 2GIG Control Panel touch screen.

The Control Panel's built-in Z-Wave radio module allows controlling and monitoring various home automation devices such as lighting, locks, heating, and air conditioning. The Z-Wave radio module can also activate Z-Wave remote alarm sirens and strobes.

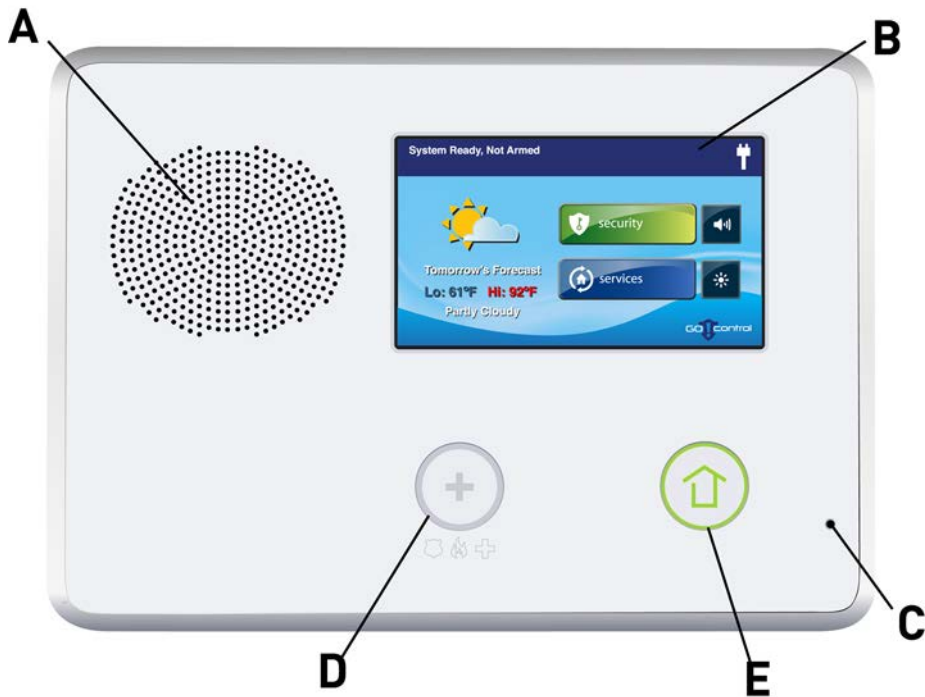
32 User Codes including a Duress Code are supported. User One is the Master User Code that can add or delete the other 31 User Codes. The Installer Code must be unique from any other User Code and is the only code that has access to system programming.

The front panel  and  buttons serve as controls as well as indicators. Pressing the  button displays emergency icons on the display for Panic, Fire, and Emergency alarm activation (each has programmable options and can be enabled or disabled). Pressing the  button changes the system display to the Home Screen.

ENTIRE SYSTEM CONFIGURATION

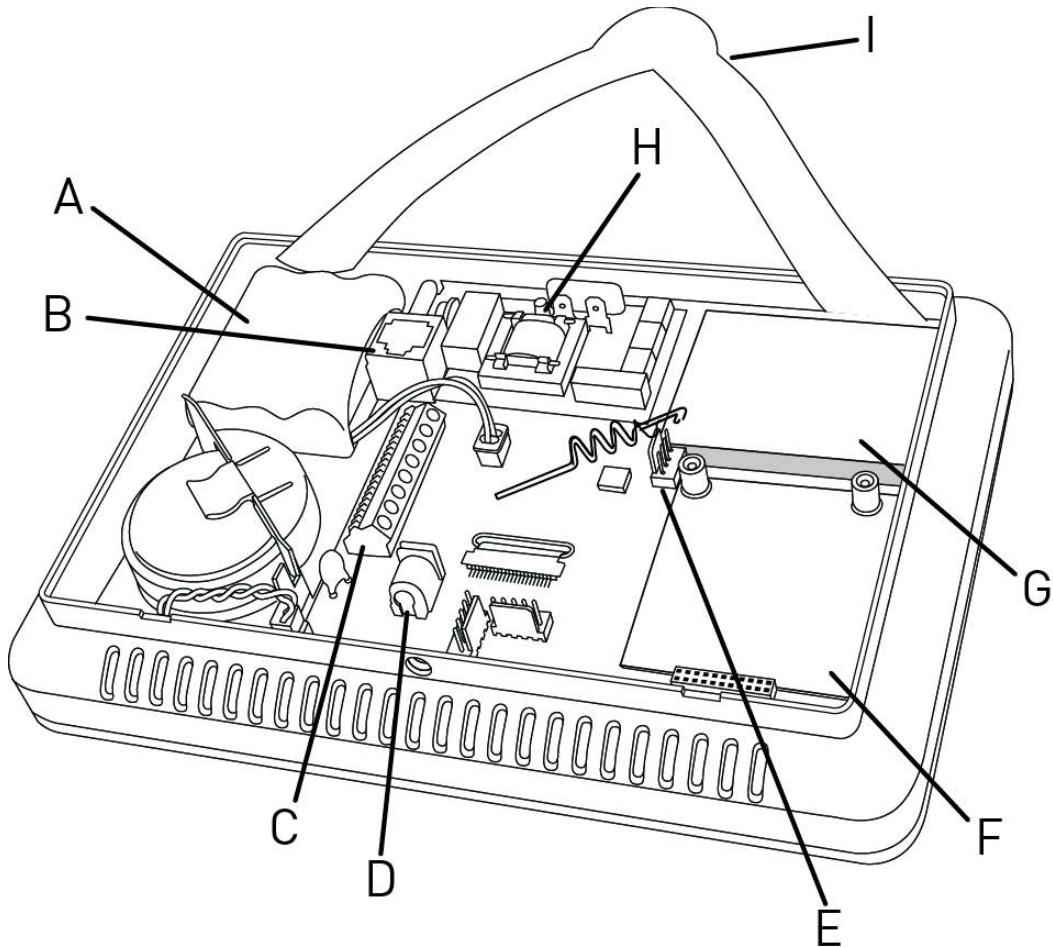


CONTROL PANEL EXTERNAL FEATURES



A Alarm Sounder and Speaker	Sounds all system local alarms, voice prompts, system sounds, and audio for 2-way voice communications with the Central Station
B Color Display with Touchscreen	Shows all system information, status, programming, and functions as the keypad. Display cycles clock, calendar, and weather with ADC account (press manually to change)
C Microphone	For voice communication with the Central Station
D Emergency Button/Indicator	Lights White when enabled for emergency alarms and flashes during emergency alarms
E Home Button/Indicator	<p>Sensor Status Lights Green when <i>all</i> sensors are closed (ready to arm) Not lit when <i>any</i> sensor is open (not ready to arm)</p> <p>Arming Status Lights Red when system is armed Flashes Red during the Entry Delay</p> <p>Alarm Memory Flashes Red during an alarm Flashes Red after an alarm while system is still armed</p> <p>Power Outage Flashes White during power outage (system on battery backup) Flashes Green when all sensors are closed (ready to arm) Flashes Orange when any sensor is open (not ready to arm) Flashes Red while system is armed</p>

CONTROL PANEL INTERNAL FEATURES



A Backup Battery Pack	7.2 Volt Ni-mh battery pack is included with the Control Panel, replacement part number 2GIG-BATT1.
B Telephone Jack	Used for RJ45 connection to installation's RJ31X telephone jack.
C Terminal Block	Connections for power, solid state output bell, and hardwire loops.
D Alternate Power Supply	Alternate connection for power. (Plug-in barrel connector)
E J4 Pin Connector	Connector for the Firmware Update Cable used to update the firmware version on the Control Panel.
F Optional Receiver Module	Module for over-the-air communication with the Central Station.
G Main Receiver Module	345 MHz receiver for wireless sensors Optional Model XCVR2 345 / 900 MHz transceiver for touch screen keypads.
H POTS Module (OPTIONAL)	POTS (Plain Old Telephone System) Module for connecting lineman's "buttset" for monitoring the telephone line.
I THIRD HAND Hanger Strap	Hooks onto mounting plate during installation to hold the Control Panel while wiring.

INSTALLATION OUTLINE

The following outline is intended to guide the installing alarm dealer through the complete installation of a Go!Control system.

Use the following outline in conjunction with this copy of the Install Guide to guide you through the installation.

- 1 Unpack the system. Identify the system components.
- 2 Plan the installation by creating an installation floor plan. Determine the best centralized location for the Control Panel. Decide on where the sensors (either wireless or wired or both) will be installed.
- 3 Identify an **un-switched** wall outlet for plugging in the power supply.
- 4 Install the Cell Radio Module into the Control Panel.
- 5 If installing POTS, identify or install a U.S.O.C. RJ31X telephone jack for connection of the Control Panel's POTS Module (this is optional).
- 13 If you install the POTS Module, plug the telephone line into the Control Panel's POTS Module.
- 14 Plug the backup battery connector into the connector on the circuit board.
- 15 Swing the Control Panel up, placing the bottom over the lip of the mounting bracket. Push the top of the Control Panel into the mounting bracket until it snaps into place, then secure it with the retaining screw.
- 16 Plug the power supply into the un-switched wall outlet.
- 17 Program the system as described in this manual and mark the check boxes in the User Guide to indicate any custom setup to the subscriber.
- 18 Test the system as described in this manual.
- 19 Instruct the subscriber on the system operation and provide the User Guide to the subscriber.

NOTE: Installing the POTS Module is *optional*.

- 6 Use the mounting plate as a template to mark the mounting location for the Control Panel. Mark any drywall cutouts behind the mounting plate required for the installation and make the cutouts.
- 7 Attach the mounting plate to the wall using three screws.
- 8 Install each of the system's wireless sensors. If either of the two hardwire loops are going to be used, install the contacts and route the loop wire to the Control Panel's wall cutout. Use the log in the quick programming guide to document each sensor's ID number and location.
- 9 Install the optional hardwired sounder, and route the connection wire to the Control Panel's wall cutout.
- 10 If used, route the telephone line from the RJ31X jack to the Control Panel's wall cutout.
- 11 For convenience, use the "third hand" strap to hang the Control Panel on the mounting plate.
- 12 Connect all wiring to the Control Panel's terminal block.

System Accessories

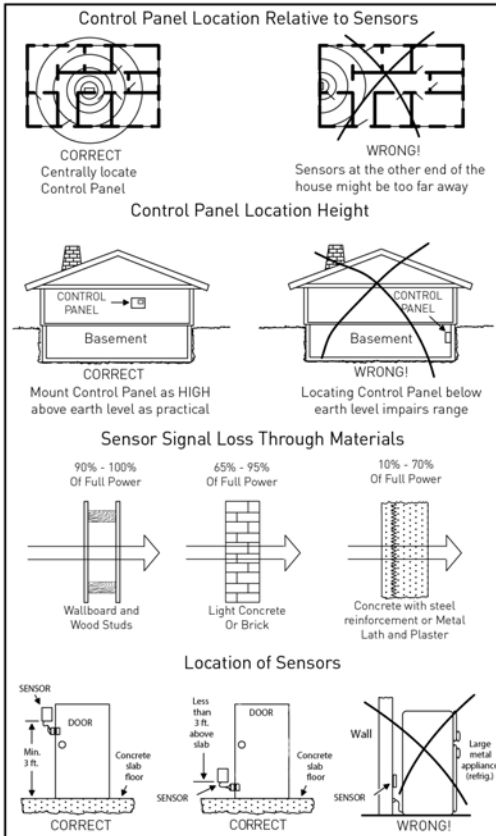
- Cell Radio Module
- Internal Antenna
- External In-Wall Antenna
- External Attic Mount Antenna
- Standard Battery Pack
- Extended Battery Pack
- Replacement Power Supply

Wireless System Sensors

- Thin Door/Window Contact
- Recessed Door Contact
- Passive Infrared Motion Detector
- 4-button Key Ring Remote
- Panic Button Remote
- Glass Break Detector
- Smoke and Heat Detector
- Wireless Touch Screen Keypad
- Wireless Keypad
- Super Switch Wireless Takeover Module

WIRELESS INSTALLATION TIPS

When installing any wireless system, consider certain limitations. Low power wireless transmitter signals do NOT broadcast equally through all types of construction materials. However, the Control Panel contains a very sensitive receiver that should allow for placement of transmitters in almost all locations. Review the following illustration before beginning the installation for the best possible placement of wireless sensors.



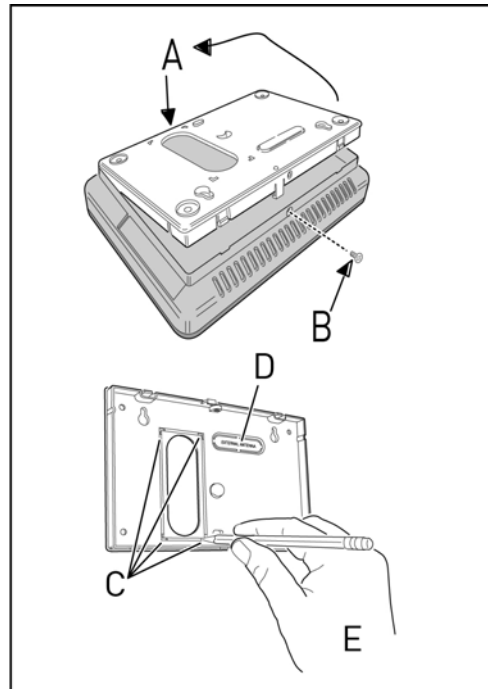
CONTROL PANEL MOUNTING PLATE

Mount the Control Panel on the wall in an easy location (or optional desk mount) for the subscriber to operate the system.

Some special tools may be required to mount the Control Panel onto the wall:

- Screwdriver
- Wire stripper
- Staple gun
- Drywall saw (or equivalent)
- Ladder

- 1 Remove the locking screw from the top of the Control Panel case and remove the mounting plate.
- 2 Use the mounting plate as a template to mark the wall for the wiring cutout slot. Use a drywall saw to cut the slot. If using the optional Cell Radio Module with an external antenna, remove the plastic knockout labeled "EXTERNAL ANTENNA" on the mounting plate. Mark and cut a slot in the drywall for the external antenna.
- 3 Attach the mounting plate to the wall using 3 screws.



- A Mounting plate
- B Remove case screw and mounting plate
- C Use mounting plate as a template to mark wire cutout hole in dry wall.
- D If using external antenna, remove knockout plate.
- E Mount plate with 3 screws.

WIRELESS SENSORS

Following the instructions included with each wireless sensor, install each sensor at its desired location.

HARDWIRED LOOPS

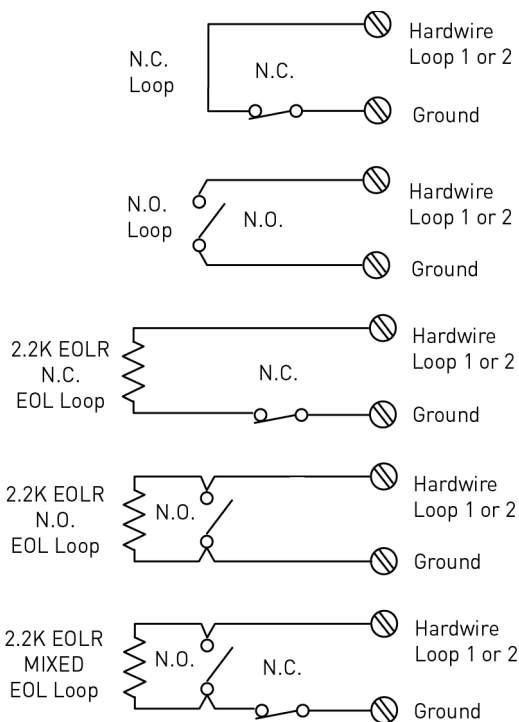
Hardwired loops can be programmed either normally open (N/O) or normally closed (N/C). End-of-line resistors (EOLR) can also be used to supervise the loops. Only contacts should be used with the hardwired loops. The Control Panel does not support powering external devices (PIR's, etc.).

NOTE: Hardwired loops cannot be used for a CO or Fire sensor loop.

- 1 If either of the two hardwired loops are going to be used, install the contacts and route the loop wire to the Control Panel's wall cutout.
- 2 If end-of-line supervision is required for the loop, install a 2.2Kohm resistor (not supplied) as shown in the following illustration.

Hardwire Loop Wiring

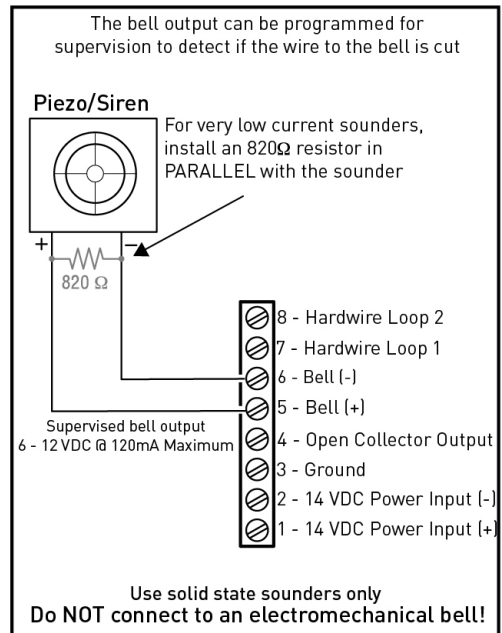
Hardwire loops need to be programmed for contact type.



WARNING: Stranded conductors clamped under wire-binding screws or similar parts shall have the individual strands soldered together or arranged in a construction that has been determined to be the equivalent.

REMOTE ALARM SOUNDER

The Control Panel provides two terminals for an optional connection to a remote electronic alarm sounder.



WARNING: DO NOT connect an electromechanical bell to these terminals. Damage to the output will occur.

The bell terminals can be supervised. If siren supervision is enabled (Q-21), and the wire between the Control Panel and sounder is cut, the Control Panel indicates a trouble alert for siren supervision and reports bell trouble to the Central Station.

- 1 Install the remote sounder in a secure location where it can easily be heard.
- 2 Route wiring from the remote sounder location to the Control Panel's wall cutout.

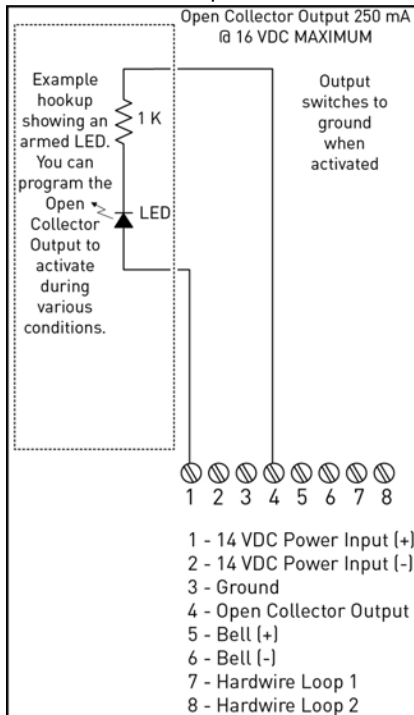
NOTE: If the piezo alarm siren used for a remote sounder has an extremely low current draw or the sounder produces hum or noise, install an 820 Ω resistor in parallel with the sounder.

SOLID STATE OUTPUT

The Control Panel provides one solid state output that can be programmed to activate during various conditions. The output can switch up to 250 mA @ 16 VDC to ground.

NOTE: For ETL Listing, an external DC backup power supply is required for a load connected to Terminal 4.

NOTE: Terminal 1 provides DC Power only when the Control Panel's power supply is connected to an AC power source.



This output only functions while the Control Panel is receiving power from the wall power supply.

- 1 Install the device to be controlled by the solid state output.
- 2 Route wiring from the device location to the Control Panel's wall cutout.

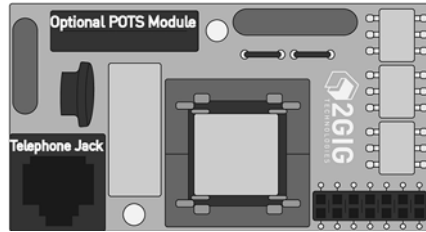
WARNING: Do not connect an electromechanical bell to these terminals. Damage to the output will occur.

NOTE: All conductors and attachments are manufactured in accordance with the Standard for Installation and Classification of Burglar and Holdup Alarm Systems (UL 681). Commercial users must provide for the connection of protective wiring, conductors and attachments.

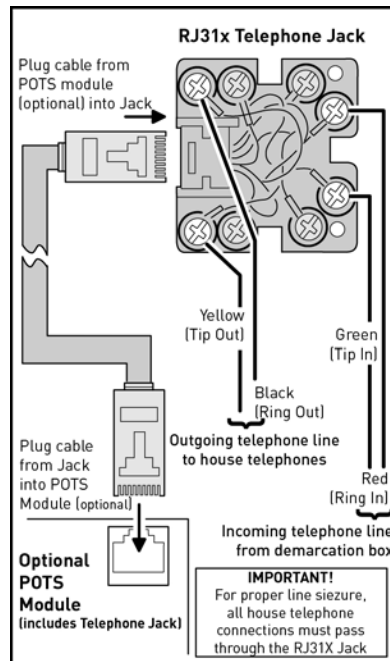
OPTIONAL TELEPHONE LINE COMMUNICATOR (POTS)

You can connect both an incoming telephone line and an outgoing telephone line to the POTS module. Install the POTS module to use the telephone jack.

Optional POTS Module



When the communicator activates, all local telephones are disconnected to prevent an off-hook telephone on the premises from blocking the communicator's call.



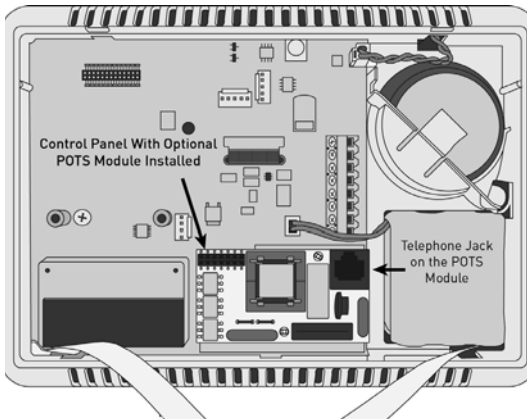
See "Wire Size and Length" on page 14 for wire size and maximum length.

- 1 Run a 4-conductor telephone cable from the telephone company demarcation box to the Control Panel mounting plate. Before continuing, make sure that you have installed the POTS module into the Control Panel.

WARNING: To reduce the risk of fire, use only No. 26 AWG or larger telecommunication line cord for phone line communications.

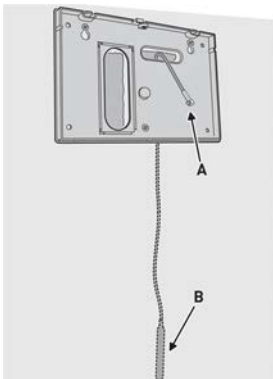
- 2 At the demarcation box, disconnect the house telephones that are wired to the box output. **Do Not disturb the telco input "drop" side of the box or any earth grounds.**
- 3 At the demarcation box, connect the **Red** cable wire to the box Ring, and the **Green** cable wire to the box **Tip**.

- 4 At the demarcation box, connect the **Black** cable wire to the house telephone **Ring** wire(s), and the **Yellow** cable wire to the house telephone **Tip** wire(s).
- 5 At the Control Panel, connect the cable's **Red** wire to the RJ31X jack's **Ring in** terminal, and the Green wire to the RJ31Xjack's **Tip in** terminal.
- 6 At the Control Panel, connect the cable's **Black** wire to the RJ31X jack's **Ring out** terminal, and the **Yellow** wire to the RJ31Xjack's **Tip out** terminal.
- 7 Snap the cover on the jack. Plug one end of the modular cable into the jack and slide it through the hole in the mounting plate into the wall.
- 8 Power up the Control Panel. From the **Menu Screen**, press the **Toolbox / System Configuration**. Press the **Go To** button to jump directly to **Q8, Q11** and **Q12** to program the POTS module. If you do not program the POTS module the Control Panel *will never access or use* the POTS module.



CELL RADIO MODULE INSTALLATION

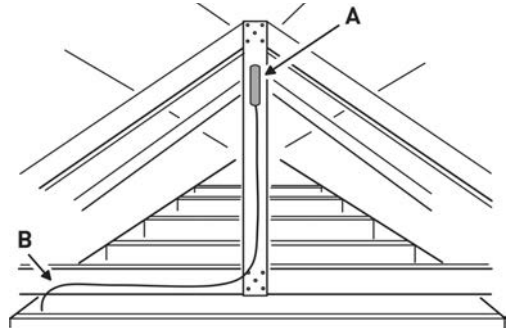
If installing the Cell Radio Module, see below:



- | | |
|----------|---|
| A | Cell Radio Module Connector |
| B | End of antenna hangs down inside the wall |

NOTE: The routing of the antenna wire is critical. Route the wire as directed or cell radio interference will occur!

- 1 when using external antennas, plug the antenna connector into the Cell Radio Module. The antenna drops into the wall or mounts in the attic with the cable passing through the slot in the Control Panel's mounting plate.



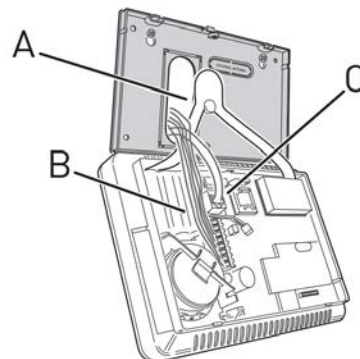
- | | |
|----------|---|
| A | Attic antenna mounted as high as possible |
| B | Coaxial cable to Control Panel |

The cell radio module should already be activated by the factory. If not, contact your service provider. For the Cell Radio Module to function, it needs to be activated before it can be enrolled (by creating an account with the service provider).

CONTROL PANEL WIRING

The "third-hand" plastic strap allows the unit to hang on the mounting plate during installation.

- 1 Using the "third hand" strap, hang the Control Panel on the mounting plate.
- 2 Connect the hardwire loop, external sounder, and open collector output wiring (if used) to the Control Panel's terminal block.
- 3 Plug the telephone line (if used) into the connector on the Control Panel's circuit board.



- | | |
|----------|---|
| A | Hang console on "third-hand" strap. |
| B | Connect hardwire loops, external sounder, and open collector output to terminals. |
| C | Plug telephone line into telephone jack. |

BACKUP BATTERY CONNECTION AND POWER SUPPLY WIRING

The backup battery connects to the Control Panel’s circuit board with a 2-pin header assembly.

The power supply features a 2-position terminal block for connecting the power supply to the Control Panel power terminals (connection wire not included).

- 1 Determine a good location where there’s a wall outlet for the plug-in power supply. The wall outlet must be un-switched.

NOTE: Do not connect the power supply to a receptacle controlled by a switch.

- 2 Route 2-conductor wire from the power supply location to the Control Panel mounting plate. For wire size and maximum length, see *Wire Size and Length* below.

- 3 Being careful to observe polarity, connect the wire to the power supply’s DC + and DC - terminals. Do not plug in power supply yet.

- 4 Being careful to observe polarity, connect the wire to the Control Panel input terminals 14VDC(+) Terminal #1 and 14VDC(-) Terminal #2.

NOTE: Grounding of the Control Panel is NOT required for proper operation.

- 5 Plug the backup battery pack’s connector into the connector on the Control Panel’s circuit board. (The Control Panel does not recognize that the battery is connected until AC power is connected to the power supply).

NOTE: Applicable regulatory agencies require installation of the extended life backup battery inside the Control Panel for 24-hour battery backup applications.

Wire Size and Length

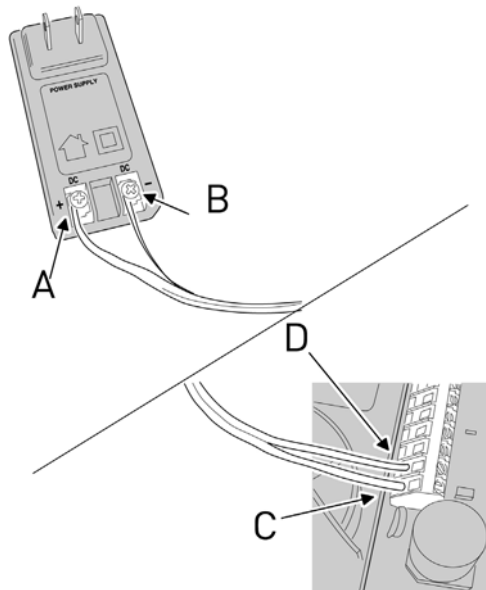
To ensure proper operation, Do Not exceed the following maximum length for the wire size installed:

Wire Size	Maximum Length
22 AWG	55 feet (16.8 meters)
20 AWG	85 feet (25.9 meters)
22 AWG 2-pairs (19 AWG equivalent)	110 feet (33.5 meters)
18 AWG	135 feet (41.1 meters)

To ensure that the appropriate wire size and length are installed, measure the voltage between the power connection terminals at the back of the

control panel. The voltage measured must not fall below 11 volts DC or nuisance “AC Power Loss” messages may be displayed and reported.

NOTE: In the United States, wiring routed inside walls, ceilings, and floors must comply with requirements of the National Electrical Code, ANSI/NFPA 70 and local building codes. For wiring from the output of the 2GIG class II power supply, wiring rated CL2, CL2X, CL2R, or PLTC is recommended to satisfy these requirements. If this wiring is installed in an air plenum (space used for environmental air exchange) it must be rated CL2P (plenum rated).



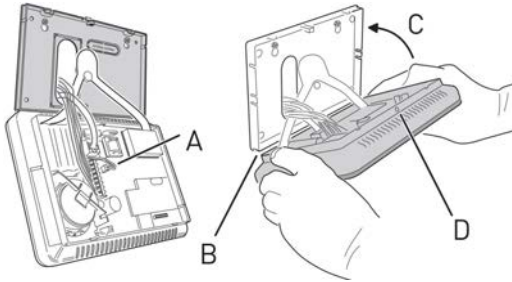
A Left Terminal 14 VDC(+)	C 14 VDC(+) Terminal #1
B Right Terminal 14 VDC(-)	D 14 VDC(-) Terminal #2

Control Panel and Power Supply Wiring

With all the wiring complete, the Control Panel is ready to power up.

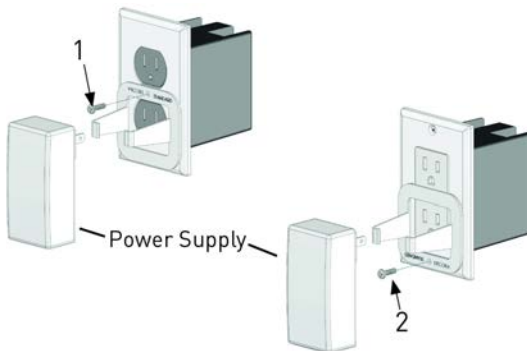
- 1 Swing the Control Panel up, placing the bottom over the lip of the mounting bracket. Push the top of the Control Panel into the mounting bracket until it snaps into place, then secure it with the retaining screw.

- 2 Peel off the adhesive backing from the power supply retaining bracket and attach the bracket to the outlet with a wall plate screw.



A	Connect battery
B	Align mounting plate inside of console bottom edge
C	Swing console up and snap into the mounting plate
D	Secure console with screw in retaining hole

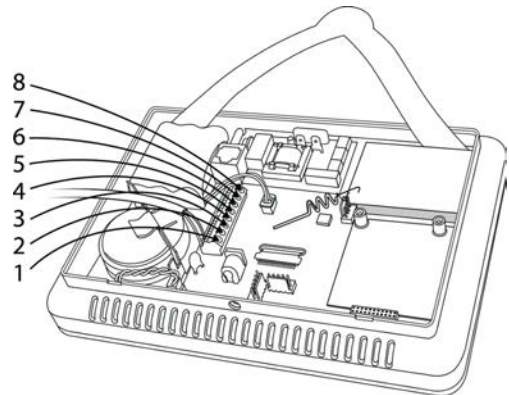
- 3 Spread the retaining bracket ears and plug the Control Panel's power supply into the unswitched outlet. Slots are provided on the bracket to secure the power supply with a zip-tie.
- 4 After about 5 seconds, the Control Panel indicates that power has been applied. If the Control Panel does not power up, check the power supply polarity.



1	Place the screw here for a bracket on a standard style outlet.
2	Place the screw here for a bracket on a decora style outlet.

NOTE: Use the power supply retaining bracket in the United States (and other countries where it is required). Canada does not require the power supply retaining bracket.

Terminal Block Wiring Diagram



1	+14 VDC
2	-14 VDC
3	GND
4	Open Collector
5	+Bell
6	-Bell
7	Hardwire 1
8	Hardwire 2

RECOMMENDED COMMERCIAL INSTALLATIONS

Security systems installed in a commercial location are for use only as a burglar alarm system and not for fire protection.

NOTE: This security system is in compliance with UL 681 (Burglar and Holdup Alarm Systems) and UL 827 (Central Station Alarm Services).

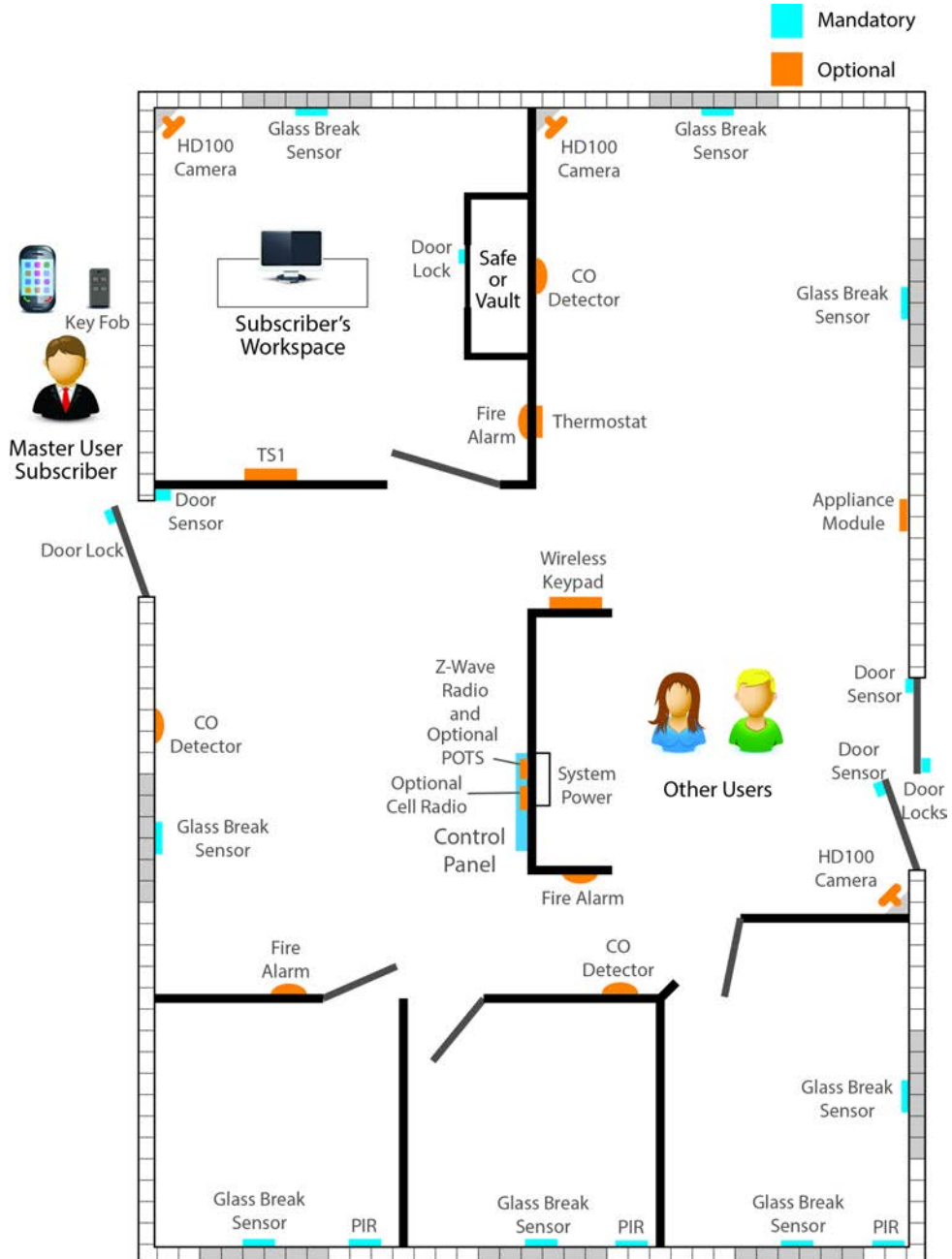
NOTE: All entries and exits within a commercial installation setup must be protected according to UL 681 (Burglar and Holdup Alarm Systems).

Stranded conductors clamped under wire-binding screws or similar parts shall have the individual strands soldered together or arranged in a construction that has been determined to be the equivalent. Note that international requirements do not allow stranded conductors to be soldered together if they are to be clamped because of cold flow of the solder. An approved type crimp connector must be used or bare conductors themselves must be inspected to ensure that there are no stray wire strands.

See "Commercial Regulatory Listings" on page 62.

COMMERCIAL CONTROL PANEL DIAGRAM

Because commercial installations of control panels are for use only as burglary alarm systems and not fire protection, it is important to note that all entries and exits must be fully supervised and protected as shown in the following diagram.



SMOKE ALARM RECOMMENDED LOCATIONS

NATIONAL FIRE PROTECTION STANDARD #72 FOR ALARM LOCATIONS

2-1.1.1 Smoke detectors used with this system should be installed in accordance with Chapter 2 of the National Fire Alarm Code, ANSI/NFPA 72 (National Fire Protection Association, Batterymarch Park, Quincy, MA 02269) which reads as follows:

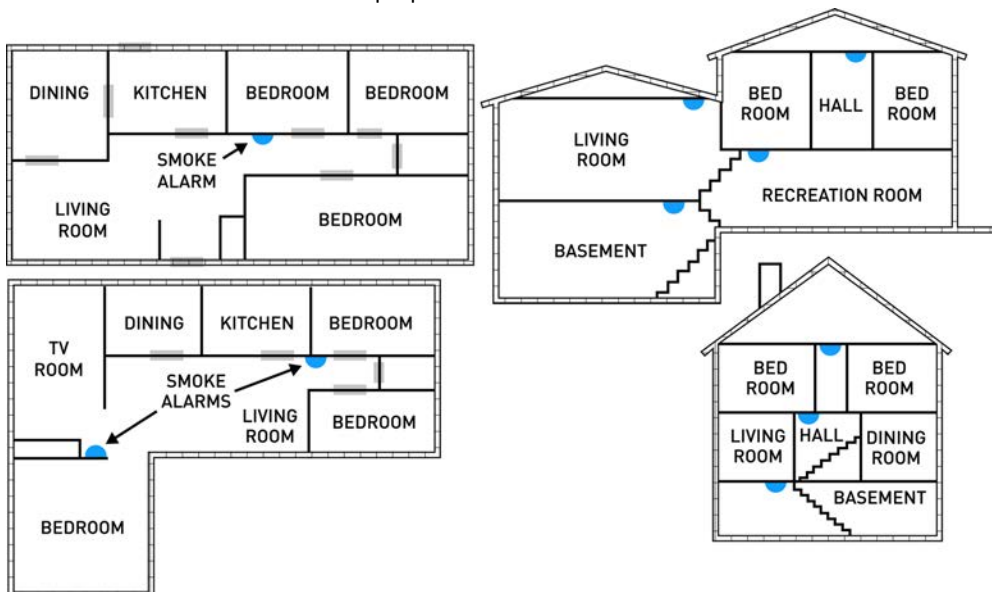
2-1.1.2 Smoke alarms shall be installed outside of each separate sleeping area in the immediate vicinity of the bedrooms and on each additional story of the family living unit including basements and excluding crawl spaces and unfinished attics. In new construction, a smoke alarm shall be installed in each sleeping room.

For family living units with one or more split levels (i.e., adjacent levels with less than one full story separation between levels), a smoke alarm shall suffice for an adjacent lower level, including basements. (Exception: Where there is an intervening door between one level and the adjacent lower level, a smoke alarm shall be installed on the lower level.)

- Ceiling mounted smoke alarms should be located in the center of the room or hall, or not less than 4 inches from any wall. When the alarm is mounted on a wall, the top of the alarm should be 4 to 12 inches from the ceiling.
- Do not install smoke alarms where normal ambient temperatures are above 100°F (37.8°C), or below 40°F (4°C). Also, do not locate alarm in front of air conditioners, heating registers, or other locations where normal air circulation will keep smoke from entering the detector.

A-2.5.2.1 Smoke Detection: Are More Smoke Alarms Desirable? The required number of smoke alarms might not provide reliable early warning protection for those areas separated by a door from the areas protected by the required smoke alarms. For this reason, it is recommended that the residential user consider the use of additional smoke alarms for those areas for increased protection. The additional areas include the basement, bedrooms, dining room, furnace room, utility room, and hallways not protected by the required smoke alarms. The installation of smoke alarms in kitchens, attics (finished or unfinished), or garages is not normally recommended, as these locations occasionally experience conditions that can result in improper operation or false alarms.


NOTE: Smoke alarms are not to be used with detector guards unless the combination has been evaluated and found suitable for the purpose.



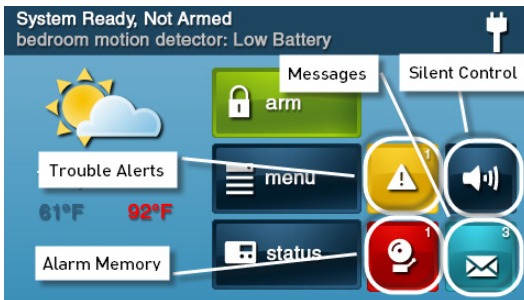
MAIN DISPLAY SCREENS

HOME SCREEN



The Home Screen shows the system status with icons to indicate system conditions. It also displays the time and date. System information scrolls along the top of the display. The Home Screen displays the Security and Services buttons and the Silent Control and Display Off buttons. Pressing the Control Panel's  button displays the Home Screen.

SECURITY SCREEN



The Security Screen displays 3 buttons for Arm, Menu, and Status. The Silent Control button and the time and date are also displayed. If messages, alarms, or trouble alerts are pending, it displays buttons indicating the number of pending messages or issues.

ARMING SCREEN



The Arming Screen is used to arm the security portion of the system. It displays the system status and arming buttons for Stay and Away. Option check boxes for Entry Delay and Silent Exit are displayed. To arm the system without an entry delay, un-check the Entry Delay check box. To arm silently without sounding the Exit Delay beeps, check the **Silent Exit** check box. Stay Mode arming always has a silent exit.

MENU SCREEN



The Menu Screen shows system status and offers buttons for **Arm** and **Toolbox**. If any of the 24-hour emergency options are enabled, an Emergency button is displayed. Check box buttons for Chime and Voice are displayed. You can access Installer setup using the Toolbox button. The **Chime** button enables/disables chimes for the entire system (chimes can be enabled or disabled for each sensor number from the Toolbox). The Voice button enables/disables voice announcements for the entire system (voice announcements can be enabled or disabled for each sensor number from the Toolbox). Voice announcements always sound during alarm conditions.

STATUS SCREEN



The Status Screen lists system status and any alerts. The date and time of alerts are listed in the displayed log. One option button for **Silence** is displayed; it temporarily stops the announcement of the system status during the status display.

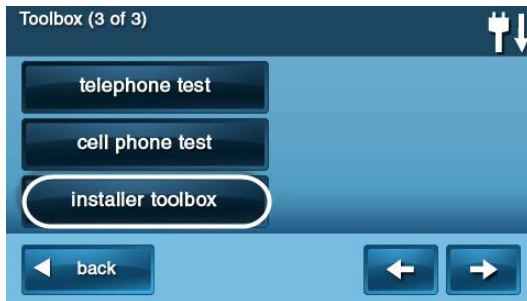
TOOLBOX SCREENS

Use the Toolbox screens to program the Control Panel. Users can access basic programming functions. Installers can access basic and Installer Toolbox functions. Enter a valid code to access the programming functions in the toolbox.

- 1 From the **Menu Screen**, press the **Toolbox** button. The system displays a Code Entry Screen. Entering a correct user code displays Toolbox Screen 1.

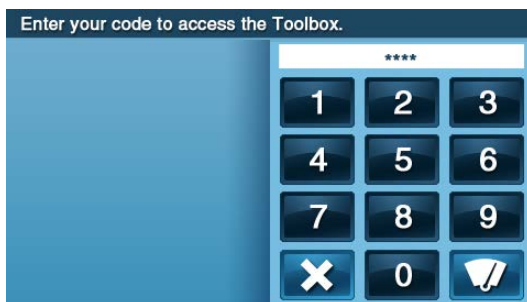


- 2 Use the arrow buttons to display Toolbox Screens 2 and 3.



- 3 Each Toolbox Screen has option buttons that display sub-menus. Access the Installer Toolbox from Toolbox Screen 3.

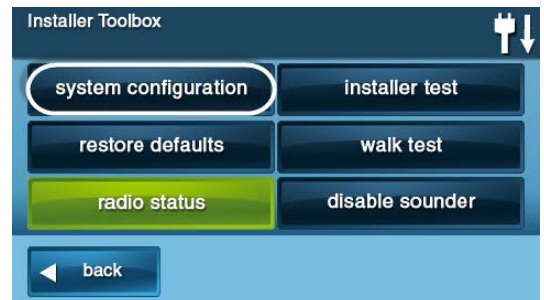
INSTALLER CODE ENTRY



The **Installer Toolbox** button enables access to the Installer Toolbox used to *program the system*. Before access to the Installer Toolbox is allowed, installers must enter their installer code in the Installer Code Entry Screen. The installer code *does not* disarm the system.

TIP: A special shortcut helps the installer access the Installer Toolbox quickly. Pressing the logo in the lower right corner of the Home Screen while the system is disarmed displays a code entry screen. When the correct Installer Code is entered, the system displays the Installer Toolbox.

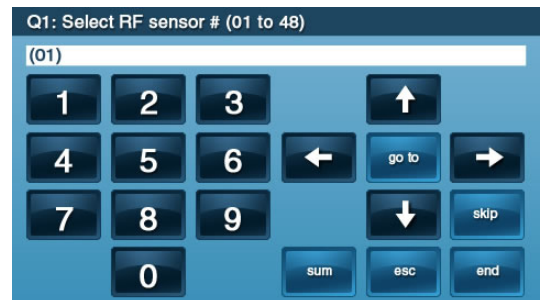
INSTALLER TOOLBOX SCREEN



The Installer Toolbox Screen displays system setup and testing buttons. Main programming is accessed using the **System Configuration** button. The other buttons support system tests and resetting the Control Panel to its programming default values.

SYSTEM CONFIGURATION

- To begin programming, press the **System Configuration**. The Control Panel displays questions used for each programming step.



TIP: To help the installer program the Control Panel quickly, the questions are arranged so that the most commonly used values appear early in the question order.

SYSTEM STATUS ICONS

The top line of the Control Panel's display is the status bar that shows the current system mode, the status of the sensors, and any current system trouble alerts. Special icons are displayed to visually show the system's current condition.



AC Power Icon

The AC power icon indicates the Control Panel's AC line power status. The icon displays a white plug when the AC power is present; the icon will display with a red "X" over the white plug when AC power is absent.



AC
Power
ON



AC
Power
OFF

Phone Line Failure Icon

If the Control Panel detects that the telephone line is disconnected, the phone line failure icon appears.



Phone Line
FAILURE

Sounder Disabled Icon

If the system's internal sounder has been lowered and external sounder has been disabled by the installer for testing, the sounder disabled icon appears. It also flashes to indicate silent arming.



Sounder
Disabled

Backup Battery Status Icon

If the Control Panel's backup battery tests low, the low backup battery icon appears.



Low
Backup
Battery

Test Mode Icon

When the system is being tested in Walk Test Mode, the test mode icon will be displayed on the status bar.



System
in TEST
mode

Touch Screen Keypad Traffic Icon

When the Control Panel is communicating to a touch screen keypad the up arrow icon appears. When a touch screen keypad communicates to the Control Panel the down arrow icon appears.



Remote
Access
Occurring

Cell Radio Icon

If the system's optional cell radio module is installed, the cell radio icon appears while the Control Panel is receiving over-the-air firmware updates.



Cell Radio
MODEM
Active

Interior Sensor Open Icon

If an interior sensor is open (or a motion detector has just been activated) the house icon appears on the status bar. As a warning, the icon flashes during arming.



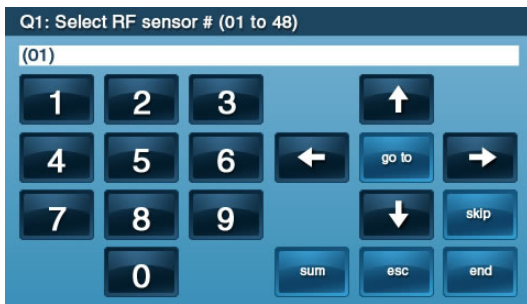
INTERIOR
Sensor
Open

PROGRAMMING NAVIGATION

When you are using the System Configuration menus, the Control Panel presents each programming question sequentially. Most programming questions have a single numeric value response or a simple enabled/disabled selection. Some programming questions have sub-options that can be set. You can display these sub-options for the question selected.

Navigation Arrows and Go To Button

The programming question screens display up, down, left, and right navigation arrows. They are used to move through the programming questions and sub-options.



The **Go To** button is used to jump directly to a programming question. Pressing **Go To** prompts the installer for the two-digit question number to jump to. The **Go To** button changes to **Cancel** while waiting for a question number. Press **Cancel** to back out.

Questions without Sub-options

Most of the programming questions do not have sub-options. They navigate as follows.

NOTE: Questions without sub-options do not display a **Skip** button.



- The ↑ and ↓ arrows select the next or previous programming question.
- The ← and → arrows choose values for the question or move the cursor left and right along the white data entry field.

Questions with Sub-options

Some of the programming questions have sub-options. They navigate as follows. Questions with sub-options display a **Skip** button during the question. The **Skip** button advances to the next programming question/section.



- The ↑ and ↓ arrows select the next or previous programming sub-question.
- The ← and → arrows choose values for the question or move the cursor left and right along the white data entry field.

Questions with Data to Enter

Some of the programming questions require entering numeric or alphabetic data. For devices that can be named, the Control Panel contains a large vocabulary with words to choose from. The **Insert** button displays a word from the vocabulary. The words can be scrolled through using the ← and → arrows, or selected by entering their 3-digit index number.



- The **Backspace** button moves the cursor to the left, deleting one character at a time.
- The **Delete** button deletes a character to the right of the cursor, or any characters that are highlighted.
- The **Forward** button highlights the next word in multi-word data fields.
- The **Back** button highlights the previous word in multi-word data fields. The **Back** button displays the previous screen in some cases.
- When the **Shift** button is displayed, pressing it will display alternate characters on the keypad that can be used for data entry.

Other Buttons Displayed

Depending on the programming question, other buttons may be displayed.



- The **Esc** (escape) button serves as an “undo”. Pressing **Esc** restores the value that was previously stored for the question or sub-question.
- The **Sum** (summary) button displays a summary of the values stored for the programming question and sub-options.
- The **End** button displays a summary of the values stored for the entire Control Panel memory.
- The **Learn** button is used to set the system to receive a sensor’s serial number during programming.
- The **Paste** button repeats the last sensor serial number entered.
- The **Exit** button exits programming.

PROGRAMMING OUTLINE

Each system installed will require programming. Most installations being performed by the professional alarm installer for a specific organization will have common values set in every Control Panel reporting to the same Central Station. Other programming values, such as the account number and sensor setup, will be unique for each installation.

Following is an outline to guide the alarm installer through the programming of the Control Panel.

If you don’t read anything else, read this outline!

Use the following outline in conjunction with this copy of the Installation and Programming Instructions to guide you through the installation.

Because of the many programming options available with this Control Panel, thoroughly reading this manual is very important. Understanding the Control Panel’s programming structure will help to save time during each installation.

At this stage the following should be already completed:

- All hardwired sensors installed
- All wireless sensors installed
- Control Panel mounted
- Control Panel connected
- Control Panel powered-up


1 Start at the Home Screen.



- 2 Press the logo at the lower right corner of the screen. (The **Installer Toolbox** can also be accessed via the third screen of the System Toolbox, but this takes longer.)

- 3 Enter the Installer Code (default = 1561) to display the Installer Toolbox.



- 4 Press **System Configuration** and begin "RF Sensor Programming Steps" on page 30.
- 5 Use the installation log sheet to record programmed options for the system.
- 6 After setting all the required programming values for the sensors and the Control Panel, press **End**, then **Exit**, to save the changes.
- 7 After the Control Panel restarts, press **Security / Menu / Toolbox**, enter the Master User Code (default = 1111), press **User Management** and setup the user's codes. Be sure to set a Duress Code as User #8. Press **Back** when finished.
- 8 Press **Brightness/Volume** and set the levels for the installation.
- 9 The volume setting does not affect the volume of *alarm* sounds.
- 10 Press → to view the second toolbox screen.
- 11 Press **Back Light Timeout** and set the display lighting timeout.
- 12 Press **Set Date** and **Set Time** and set the calendar and clock. If the Cell Radio Module is installed, the date and time sets automatically.
- 13 Press the  button to return to the Home Screen.

After completing all setup and programming, refer to the User Guide for details on operating the system. Check off the programmed options for the system in the User Guide.

NOTE: Be sure to instruct the subscriber on the proper operation of the system, and leave the *User Guide* at the installation site for reference.

SIA CP-01 Defaults

Several system programmable options have the defaults pre-set to provide compliance with the Security Industry Association CP-01 Standard. All other system settings and functions that are required to comply with SIA CP-01 are permanently programmed into the Console and cannot be changed. Refer to the table for each programmable option that has a required SIA CP-01 programming default.

Programming Question	SIA CP-01 Default	Range
Q-1 Wireless Sensor Dialer Delay	30 Seconds	On or Off
Q-2 Wired Sensor Dialer Delay	30 Seconds	On or Off
Q-5 Exit Delay	60 Seconds	45-120 Seconds
Q-6 Entry Delay #1	30 Seconds	30-240 Seconds
Q-7 Entry Delay #2	45 Seconds	30-240 Seconds
Q-10 Call Waiting Disable Code	No Default Code	0-6 Digits
Q-20 Swinger Shutdown Count	2 Trips	1-6 Trips
Q-26 Auto Stay	Enabled	Enabled Disabled
Q-27 Exit Delay Restart	Enabled	Enabled or Disabled
Q-31 Cancel Time	5 Minutes	6-254 Minutes
Q-32 Cancel Display	Enabled	Enabled or Disabled
Q-35 Abort Window Dialer Delay	30 Seconds	15 or 45 Seconds
Q-79 Select Output	Follows Internal Sounder See Q-78 for Options	

PROGRAMMING QUESTION TABLE

Q#	Question	Default	
Q-1	Select RF sensor # (01-48)		
	Select RF sensor (#) type	(00) unused	
	Select RF sensor (#) equipment type	Varies by RF sensor type (only shown for some sensor types)	
	Select RF sensor (#) equipment code	(0000) other	
	Enter RF sensor (#) other equipment code (0-9999)	0-Only shown if other is selected	
	Enter RF sensor (#) serial number (7 digits)	0000000	
	Select RF sensor (#) equipment age (0-1)	(0) new	
	Select RF sensor (#) loop number (1-3)	Varies with sensor model selected	
	Select RF sensor (#) dialer delay (0-1) ‡	(1) enabled-except for fire and CO	
	Construct RF sensor (#) voice descriptor	No default	
	Select RF sensor (#) reports (0-1)	(1) enabled	
	Select RF sensor (#) supervised (0-1)	(1) enabled	
	Select RF sensor # chime (0-5)	(0) disabled	
Q-2	Select wired sensor # (1-2)		
	Select wired sensor (#) type	(00) unused	
	Select wired sensor (#) equipment type	Varies by wired sensor type (only shown for some sensor types)	
	Enter wired sensor (#) equipment code (0-9999)	0	
	Select wired sensor (#) equipment age (0-1)	(0) new	
	Select wired sensor (#) normal state	(0) not used	
	Select wired sensor (#) dialer delay ‡	(1) enabled	
	Construct wired sensor (#) voice descriptor (0-1) ‡	No default	
	Select wired sensor (#) reports (0-1)	(1) enabled	
	Select wired sensor (#) chime (0-5)	(0) disabled	
Q-3	Select fob # (1-8)		
	Select fob (#) used (0-1)	(0) unused	
	Select fob (#) equipment code (0000)	(0000) other	
	Enter fob (#) other equipment code (0-9999)	0-Only shown if other is selected	
	Enter fob (#) serial number (7 digits)	0000000	
	Select fob (#) equipment age (0-1)	(0) new	
	Select fob (#) emergency key (0-4)	(0) disabled	
	Select fob (#) key 2 can disarm (0-1)	(1) enabled	
	Construct fob (#) voice descriptor	keyfob #	
	Select fob (#) arm no delay (0-1)	(0) disabled	
	Select fob (#) key 4 output (0-2)	(0) disabled	
Q-4	Select RF keypad # (1-4)		
	Select RF keypad (#) used (0-1)	(0) unused	
	Select RF keypad (#) equipment code	(0000) other	
	Enter RF keypad (#) other equipment code (0-9999)	0-Only shown if other is selected	
	Enter RF keypad (#) serial number (7 digits)	0000000	
	Select RF keypad (#) emergency age (01)	(0) new	
	Select RF keypad (#) emergency keys (01)	(1) enabled	
	Construct RF keypad (#) voice descriptor	keypad #	
Q5	Enter exit delay, in seconds (45-120) ‡	60 seconds	
Q6	Enter entry delay 1, in seconds (30-240) ‡	30 seconds	
Q7	Enter entry delay 2, in seconds (30-240) ‡	45 seconds	
Q8	Select dialer (0-1)	(0) disabled	
Q9	Enter dialing prefix (0-4 digits)	No default	
Q10	Enter call waiting disable code (0-6 digits) ‡	No default	
Q11	Enter CS #1 phone number (0-25 digits)	No default	
Q12	Enter CS #1 account number (4 digits)	No default	
Q13	Select 2-way voice (0-2)	(1) stay online	
Q14	Select silent panic/burglary listen only (0-1)	(1) enabled	
Q15	Select dialing type (0-1)	(0) touch tone	
Q16	Select police emergency key (0-2)	(1) audible	
Q17	Select fire emergency (0-1)	(1) audible	
Q18	Select emergency key (0-1)	(1) audible	
Q19	Select quick arming (0-1)	(1) enabled	
Q20	Select swinger shutdown count (1-6) ‡	(2) two trips	
Q21	Select siren supervision time (0-3)	(0) disabled	
Q22	Enter CS lack of usage notification time 0-255	7 Days	
Q23	Enter radio modem network failure time 0-255	30 minutes	
Q24	Select radio network failure causes trouble 0-1	(1) enabled	
Q25	Select radio modem network failure reports 0-1	(1) enabled	
Q26	Select auto stay (0-1)	(1) enabled	
Q27	Select exit delay restart (0-1)	(1) enabled	
Q28	Select quick exit (0-1)	(1) enabled	
Q31	Enter periodic test, in days (0-255)		30 days
Q32	Enter cancel time, in minutes (5-255) ‡		5 minutes
Q33	Select cancel display (0-1) ‡		(1) enabled
Q34	Select cross sensor 47-48 (0-1)		(0) disabled
Q35	Enter cross sensor timeout in seconds (10-120)		10 seconds
Q36	Select abort window dialer delay (0-2)		(1) 30 seconds
Q37	Select burglary bell cutoff (0-4)		(0) 4 minutes
Q38	Select fire bell cutoff (0-4)		(0) 4 minutes
Q39	Enter time to detect AC loss report time (0-30)		0 minutes
Q40	Select random AC loss report time (0-1)		(1) enabled
Q41	Enter CS #2 phone number (0-25 digits)		No default
Q42	Enter CS #2 account number (4 digits)		No default
Q43	Select remote control phone (0-3)		(3) data and voice
Q44	Enter installer code (4 digits)		1561
Q45	Select lock installer programming (0-2)		(0) disabled
Q46	Select lock default programming (0-2)		(0) default all
Q47	Select trouble reports to CS (0-1) *		(1) enabled
Q48	Select trouble resound after holdoff (0-7)		(0) disabled
Q49	Enter download csid (6 digits)		000000
Q50	Select programming mode entry reports to CS (0-1)		(0) disabled
Q51	Select trouble reports to CS (0-1)		(1) enabled
Q52	Select manual bypass reports to CS (0-1)		(0) disabled
Q53	Select AC loss reports to CS (0-1)		(1) enabled
Q54	Select system low battery reports to CS (0-1)		(1) enabled
Q55	Select RF low battery reports to CS (0-1)		(1) enabled
Q56	Select opening reports to CS (0-1)		(0) disabled
Q57	Select closing reports to CS (0-1)		(0) disabled
Q58	Select alarm restore reports to CS (0-1)		(0) disabled
Q59	Select trouble restore reports to CS (0-1)		(1) enabled
Q60	Select bypass restore reports to CS (0-1)		(0) disabled
Q61	Select AC restore reports to CS (0-1)		(1) enabled
Q62	Select system low batter restores report to CS (0-1)		(1) enabled
Q63	Select RF low battery restores reports to CS (0-1)		(1) enabled
Q64	Select phone fail detect (0-1)		(0) disabled
Q65	Select smart test reports (0-1)		(0) disabled
Q66	Select RF jam causes trouble (0-1)		(0) disabled
Q67	Select daylight saving (0-1)		(1) enabled
Q68	Select daylight saving start month (01- 12)		(03) March
Q69	Select daylight saving start Sunday (1-7)		(1) 2nd
Q70	Select daylight saving end month (01-12)		(11) November
Q71	Select daylight saving end sunday (1-7)		(1) 1st
Q72	Select system tamper causes trouble (0-1)		(1) enabled
Q73	Select quick bypass (0-1)		(0) disabled
Q74	Select disarming keyfob after alarm alert (0-1)		(0) disabled
Q75	Select keyfob arm/disarm confirmation (0-1)		(0) disabled
Q76	Select auto unbypass for manual bypass (0-1)		(1) enabled
Q77	Select force bypass reports (0-1)		(0) disabled
Q78	Select event log (0-3)		(3) all events
Q79	Select output (00-10)		11 follows internal sounder alarm
Q80	Select Z-Wave feature (0-3)		(1) disabled by visible
Q81	Select Z-Wave switches feature (0-1)		(0) disabled
Q82	Select Z-Wave thermostats feature (0-1)		(0) disabled
Q83	Select Z-Wave switches feature (0-1)		(0) disabled
Q84	Select temperature display units (0-1)		(0) degrees Fahrenheit
Q85	Select services require master code		(0) disabled
Q86	Select master user access to z		(0) disabled
Q87	Select disable siren after two-way audio (0-1)		(0) disabled
Q88	Select keyfob/remote arming mode on system not ready (0-2)		(0) auto-bypass with zone participation on restore
Q89	Select siren mode (0-1)		(0) sound for burglary and Fire/CO
Q90	Select allow backlight always on (demo mode)		(0) disabled
Q91	Select energy feature		(1) enabled
Q91	Select radio modem supplier		(0-2) depends on supplier

‡ Default set for SIA CP-01 compliance

* For UL985 Installations, this feature must be disabled

SYSTEM SENSOR TYPES (ZONES)

Each sensor (wireless or wired) installed in the system is programmed to a specific sensor number and sensor type (zone).

The sensor number identifies the specific sensor when it is displayed on the Control Panel, recorded in the event log, or reported to the Central Station. This allows pin-point information about any sensor in the system.

The sensor type determines how and when the Control Panel responds to signals from the sensor. Some sensors are armed all the time, others are armed only in certain arming levels, some cause Central Station Reports anytime they are activated. The sensor's type, along with other programming options, determine this.

Sensor Types (Zones)

(00) Unused

This is the setting for unused sensor numbers that do not have a sensor programmed into them. No system action occurs at any time from this sensor type.

(01) Exit/Entry 1

This sensor type is reserved for doors that are used for exit and entry of the protected premises. When the system is armed in the Away Mode or Stay Mode, the Exit Delay timer starts. There is an Exit Delay regardless of whether the system is armed in Stay Mode or Away Mode. When the Exit Delay timer expires, the system is fully armed.

With the system fully armed, when this type of sensor is triggered, the Entry Delay #1 timer starts. The system must be disarmed before the Entry Delay #1 time expires, or an alarm will occur.

If the Entry Delay is turned off during arming, the exit/entry delay sensors will act as non-delayed instant sensors at the end of Exit Delay.

(02) Exit/Entry 2

This sensor type operates the same as the Exit/Entry 1 sensor type except it will start the Entry Delay #2 timer. This provides a method of having a longer Entry Delay on certain openings, such as a garage door, to provide the user more time to disarm the system.

(03) Perimeter

This sensor type is for perimeter doors and windows that will not be used to enter or exit the protected premises while the system is armed. An instant alarm will occur when this type of sensor is triggered with the system armed in either the Stay Mode or Away Mode.

(04) Interior Follower

This sensor type is for interior sensors such as motion detector, interior doors, and other sensors that detect human presence inside the protected premises. This type of sensor is called a "follower" due to its action when the system is armed in the Away Mode. After the Exit Delay expires and the system is armed, if an interior follower sensor is triggered, an instant alarm will occur. If an exit/

entry delay sensor is triggered first, the interior follower sensor will also be delayed.

Interior follower sensors are always bypassed and not active when the system is armed in Stay Mode. This allows the premises to be occupied while still protecting the perimeter.

(05) Day Zone

This sensor type is the same as a perimeter zone, except when the system is disarmed, a violation displays a trouble alert on the Console's display. Common uses for this sensor type are protection of sensitive areas that require notification and possibly a Central Station trouble report, but not an alarm when the system is disarmed.

(06) 24-hour Silent Alarm

This sensor type is active independent of the system arming status. The code for silent panic is sent to the Central Station, but for safety, there are no visual or audible indications locally that this sensor type has been triggered.

(07) 24-hour Audible Alarm

This sensor type is continuously armed 24-hours a day. A sensor programmed to this type will trigger a local alarm and the bell output regardless of the mode the system is in. Typical use would be an audible panic alarm.

(08) 24-hour Auxiliary Alarm

This sensor type is continuously armed 24-hours a day. A sensor programmed to this type will trigger an alarm regardless of the mode the system is in. The bell output will not activate, but the local sounder will continue until it's acknowledged at the Control Panel. Typical use would be for a monitoring device such as a flood or temperature sensor. There is no time out for the internal sounder, it will continue until a User Code is entered.

(09) 24-hour Fire †

This sensor type is continuously armed 24-hours a day. A sensor programmed to this type will trigger the local alarm fire sounder and the bell output regardless of the mode the system is in. Typical use would be for wireless smoke detectors. This sensor type is always active and cannot be bypassed.

(10) Interior with Delay

This sensor type operates as a delayed sensor when the system is armed in the Away Mode, and when triggered, will start the Entry Delay #1 timer. If the system is armed in Away Mode with no Entry Delay (armed instant), this sensor type will trigger an instant alarm.

If the system is armed in Stay Mode (or Stay Mode with no Entry Delay), this sensor type will be bypassed.

(14) 24-hour Carbon Monoxide †

This sensor type is continuously armed 24-hours a day. A sensor programmed to this type will trigger the local alarm pulse sounder and the bell output regardless of the

mode the system is in. Typical use would be for wireless carbon monoxide detectors. This sensor type is always active and cannot be bypassed.

(16) 24-hour Fire with Verification †

This sensor type is continuously armed 24-hours a day. A sensor programmed to this type can trigger the local alarm fire sounder and the bell output regardless of the mode the system is in. Typical use would be for wireless smoke detectors. This sensor type is always active and cannot be bypassed.

For verification, this sensor type must be violated twice in two minutes, or remain violated for 30 seconds. If any other fire sensor (verified sensor type or not) violates within two minutes, both sensors will cause a fire alarm.

(23) No Response Type

This sensor type is a special zone that can be monitored for activity or inactivity by the Central Station. It does not affect security system status.

(24) Silent Burglary

This sensor type is for silent triggering the burglary alarm with perimeter doors and windows that will not be used to enter or exit the protected premises while the system is armed. The Control Panel's sounder and the bell output will not activate.

An instant silent alarm will occur when this type of sensor is triggered with the system armed in either the Stay Mode or Away Mode.

† Indicates Sensor types that are not allowed for hardwired loops.

SYSTEM VOCABULARY TABLE

#	WORD	#	WORD
002	ABORT	070	ENTRY
003	AC	071	ERROR
004	ACCESS	072	EXERCISE
005	ALARM	073	EXIT
006	AND	074	EXIT NOW
007	ANNOUNCEMENT	075	EXTERIOR
008	AREA	076	EXTERNAL
009	ARM	077 FAILURE	
010	ARMED	078	FAMILY
011	ARMING	079	FAN
012	AT	080	FIFTEEN
013	ATTIC	081	FIFTY
014	AUDIO	082	FIRE
015	AUTO	083	FIRE ALERT
016	AUTOMATION	084	FIRE DETECTOR
017	AUXILIARY	085	FIRST
018	AWAY	086	FIVE
019	BABY'S	087	FLOOD
020	BACK	088	FLOOR
021	BASEMENT	089	FLUID
022	BATHROOM	090	FOIL
023	BATTERY	091	FOR
024	BEDROOM	092	FORTY
025	BONUS	093	FOUR
026	BREAK	094	FOURTEEN
027	BUTTON	095	FOURTH
028	BYPASS	096	FREEZE
029	BYPASSED	097	FREEZER
030	CABINET	098	FRONT
031	CANCEL	099	FURNACE
032	CARBON MONOXIDE	100 GAME	
033	CELLAR	101	GARAGE
034	CELLULAR	102	GAS
035	CELL RADIO	103	GLASS
036	CENTER	104	GLASS BREAK
037	CHECK	105	GUEST
038	CHEST	106	GUN
039	CHILDREN'T	107 HALL	
040	CHIME	108	HALLWAY
041	CLOSET	109	HANGING
042	CODE	110	HANG UP
043	COMMUNICATIONS	111	HEAT
044	COMPUTER	112	HIGH
045	CONTROL	113	HOME
046	COOL	114	HOUSE
047	CRAWL	115 ICE	
048	CURRENT	116	INSIDE
049	DAY	117	INSTANT
050	DEGREES	118	INTERIOR
051	DEN	119	INTRUSION
052	DETECTOR	120	IS
053	DIM	121 KEY	
054	DINING	122	KEYFOB
055	DISARM	123	KEYPAD
056	DISARMED	124	KIDS
057	DOCK	125	KITCHEN
058	DOOR	126 LAUNDRY	
059	DOWNSTAIRS	127	LEFT
060	DRIVEWAY	128	LEVEL
061	EAST	129	LIBRARY
062	EIGHT	130	LIGHT
063	EIGHTEEN	131	LIGHTS
064	EIGHTY	132	LIQUOR
065	ELECTRIC	133	LIVING
066	ELEVEN	134	LOADING
067	EMERGENCY	136	LOCK
068	ENTER	136	LOFT
069	ENTRANCE	137	LOW

#	WORD	#	WORD
138	MAIN	206	SKYLIGHT
139	MAINTENANCE	207	SLIDING
140	MASTER	208	SMOKE
141	MEDICAL	209	SOUNDER
142	MEDICINE	210	SOUTH
143	MENU	221	SPACE
144	MIDDLE	212	SPARE
145	MONITOR	213	STAIRS
146	MOTION	214	STAR
147	MOTION DETECTOR	215	STATUS
148	MUD	216	STAY
149	NINE	217	STOP
150	NINETEEN	218	STORAGE
151	NINETY	219	STUDY
152	NORTH	220	SUMP
153	NOT	221	SUPERVISION
154	NOT READY	222	SYSTEM
155	NO DELAY	223 TAMPER	
156	NO ENTRY DELAY	224	TEMPERATURE
157	NURSERY	225	TEN
158	OFF	226	TERMINATED
159	OFFICE	227	THERMOSTAT
160	ON	228	THIRD
161	ONE	229	THIRTEEN
162	ONE HUNDRED	230	THIRTY
163	OUTPUT	231	THREE
164	OUTSIDE	232	TO
165	PANEL	233	TOOL
166	PANIC	234	TRANSMITTED
167	PANTRY	235	TRANSMITTER
168	PATIO	236	TROUBLE
169	PERIMETER	237	TURN
170	PHONE LINE	238	TWELVE
171	PLAY	239	TWENTY
172	POLICE	240	TWO
173	POOL	241	UNLOCK
174	POUND	242	UPPER
175	POWER	243	UPSTAIRS
176	PRESS	244	USER
177	PREVIOUS	245	UTILITY
178	PUMP	246	VALVE
179	RADIO	247	VOICE
180	READY	248	WALL
181	REAR	249	WATER
182	RELAY	250	WEST
183	REMOTE	251	WINDOW
184	REPEAT	252	WIRELESS
185	RF JAM	253 YARD	
186	RIGHT	254 ZERO	
187	ROOM	255	ZONE
188	SAFE	256	BALCONY
189	SECOND	257	COURTYARD
190	SECURITY	258	DECK
191	SENSOR	259	DETACHED
192	SENSORS	260	OVERHEAD
193	SESSION	261	REFRIGERATOR
194	SET	262	SERVICE
195	SEVEN	263	SUNROOM
196	SEVENTEEN	264	WAREHOUSE
197	SEVENTY	265	GATE
198	SHED	266	APARTMENT
199	SHOP	267	FOYER
200	SIDE	268	TV
201	SILENT	269	VIDEO
202	SIREN	270	PORCH
203	SIX	271	CORNER
204	SIXTEEN		
205	SIXTY		

INSTALLER PROGRAMMING

ACCOUNT REGISTRATION

The account registration data was created from the installation contract and is stored in a database at the Central Station. The data includes items such as the customer name, address, and the Central Station telephone number and assigned Control Panel account number.

The registration process is used to enroll the Control Panel with the Central Station and involves the following:

- Selecting the sensor number for a particular device
- Selecting the RF sensor type
- Learning-in the RF sensor's serial number
- Selecting the other options for the sensor as shown in the following diagram

IMPORTANT: RF sensors are reported to the Control Panel as sensors #1-48.

Q-1 Sub-Questions

The options that can be set for each RF sensor are:

- Sensor number — 01-48
- Sensor Type — Exit/Entry, perimeter, interior...
- Sensor Equipment Type — Certain sensor types will ask for equipment type
- Sensor Equipment Code — Sensor model (door/window, PIR, smoke detector, etc.)
- Sensor Other Equipment Code — Enter special equipment code (only shown for sensors set as "other")
- Sensor Serial # — Serial number labeled on sensor; manually enter or "learn" by sending signal
- Sensor Equipment Age — New install or existing sensor
- Sensor Loop Number — Built-in contacts or external contacts on DW11 Door/Window sensor
- Sensor Dialer Delay — Delayed or instant communicator reports for the sensor (delay time is set by dialer abort window)
- Sensor Voice Descriptor — Name assigned to the sensor and announced if programmed
- Sensor Reports — Communicator reports or no communicator reports for the sensor
- Sensor Supervised — Control Panel checks for status reports from the sensor, or does not check for status reports
- Sensor Chime — Select voice announcement and chime options for the sensor

- 1 Scroll between options using the ← and → arrows. Move to the previous or next prompt by pressing the ↑ and ↓ arrows.

Programming RF Sensor (Question 1)
Click the down arrow for the next option

Select RF Sensor #

Select RF Sensor Type

Select RF Sensor Equipment Type

Select RF Sensor Equipment Code

Select RF Sensor Other* Equipment Code

Select RF Sensor Serial Number

Select RF Sensor Equipment Age

Select RF Sensor Loop Number

Select RF Sensor Dialer Delay

Construct RF Sensor Voice Descriptor**

Select RF Sensor Reports

Select RF Sensor Supervised

Select RF Sensor Chime

- 2 To program another sensor click **next**.
- 3 To exit programming, click **skip** then **end** and **exit**. Upon exit, the panel takes a several seconds to reboot.

*Only used for "other" equipment

Press **insert for each word. To select from the list, you can use the keypad or press the ← or → arrows.

RF Sensor Summary Screen

After setting all the options for a sensor, the RF sensor summary screen is displayed. The screen can also be displayed for programmed sensors during RF sensor program editing by pressing the **Sum** button.

- While programming each RF sensor remember that the ← and → arrow buttons step through each of the RF sensor numbers.
- To return to programming, click the **edit current** or **edit next** buttons.
- Pressing **Skip** goes to question number Q-2 (Wired Sensor Programming). See "Wired Sensor Programming Outline" on page 33.



RF SENSOR PROGRAMMING STEPS

Q-1 SELECT RF SENSOR # (01-48)

Up to 48 wireless RF sensors can be used with each Control Panel. The options for each sensor are programmed with sub-option questions.

- 1 Begin by entering the RF sensor number or select it using the ← or → arrows.
- 2 After selecting the sensor number, program the sensor details by using the ↑ and ↓ arrows to select each of the sub-options.

NOTE: To skip RF sensor programming, press **Skip** to jump from question Q-1 to question Q-2 (wired sensor programming).

Select RF sensor (#) type DEFAULT: Unused (00)

Each RF sensor needs to be assigned to a sensor type. The sensor type determines how and when the Control Panel responds to signals from the sensor.

Use this step to assign the sensor to a sensor type (zone).

- Select the sensor type that matches the sensor's function using the ← or → arrows, or enter the sensor type number directly on the keypad.

Sensor Types
(00) unused
(01) exit/entry 1
(02) exit/entry 2
(03) perimeter
(04) interior follower
(05) day zone
(06) 24-hour silent alarm
(07) 24-hour audible alarm
(08) 24-hour auxiliary alarm
(09) 24-hour fire
(10) interior with delay
(14) 24-hour carbon monoxide
(16) 24-hour fire verification
(23) no response type
(24) silent burglary

Select RF sensor (#) equipment type

DEFAULT: Varies by RF sensor type

NOTE: This question is only displayed when certain sensor types are selected. The equipment type selection will affect the sensor's extended reporting code.

The following sensor types require equipment type selection:

Sensor Type	Equipment Types Available
(04) interior follower	(1)=motion (2)=contact
(06) 24-hour silent alarm	(1)=contact (11)=emergency
(07) 24-hour audible alarm	(1)=contact (11)=emergency
(08) 24-hour auxiliary	(1)=contact (6)=freeze (8)=water (10)=temperature (11)=emergency
(10) interior with delay	(1)=motion (2)=contact
(23) no response type	(1)=contact (2)=motion

- Select the equipment type that matches the sensor equipment using the ← or → arrows, or enter the equipment type number directly on the keypad.

Select RF sensor (#) equipment code

DEFAULT: (0000) other

The equipment code is a 4-digit code that is assigned to the model of sensor being used. The Control Panel displays a list of sensor models and their associated 4-digit equipment code.

- 1 Select the model of RF sensor being programmed for this sensor number using the ← or → arrows, or enter the equipment code number directly on the keypad.
- 2 Select "(0000) other" if the sensor model is not shown on the list. The equipment code for the sensor can be entered using the next sub-question.

Sensor Equipment Codes
(0000) other
(0862) DW10-345Thin Door/Window Contact
(0863) DW20R-345 Recessed Door Contact
(0869) PIR1-345 PIR with Pet Immunity
(0864) GB1-345 Glass break detector
(0895) SMTK2-345 GE Smoke/Heat detector (USA/Canada)
(1058) SMTK3-345 2GIG Smoke Detector
(0872) SMKE1-345 Smoke Detector (USA)
(0871) SMKE1-345C Smoke Detector (Canada)
(0868) PANIC1-345 Panic Button Remote
(0860) CO1-345 CO Detector (USA)
(0859) CO1-345 CO Detector (Canada)
(1026) CO3-345 2GIG CO Detector (USA/Canada)
(0873) TAKE-345 Takeover Module
(0637) HWD/W"5816"
(0470) HW R-D/W "5818MNL"
(0533) HW PIR "5890"
(0530) HW PIR "5894Pi"
(0519) HW Glass Break "5853"
(0589) HW Smoke "5808W3"
(0557) HW Heat Sensor "5809"
(0624) HW Flood Sensor "5821"
(0491) HW Panic Pendant "5802MN2"
(0655) Existing Door/Window Contact
(0609) Existing Motion Detector
(0475) Existing Glass Break Detector
(0616) Existing Smoke Detector
(0692) Existing CO Detector
(0708) Existing Heat Sensor
(0556) Existing Flood/Temp Sensor
(1061) Garage01 Resolution Products Tilt Sensor
(1063) DBELL1-345 2GIG Doorbell

Enter RF sensor (#) serial number (0-9999)

DEFAULT: 0

NOTE: This question is only displayed if "(0000) other" is selected for a sensor's equipment code.

The equipment code is a 4-digit code that is assigned to the model of sensor being used. If new equipment becomes available, the new equipment code should be entered here if the new equipment is not listed in the Sensor Equipment Codes table above.

- Enter the equipment code number directly on the keypad for the RF sensor. (Enter "0" if the new equipment code is unknown.)

Enter RF sensor (#) serial number (7 digits)

DEFAULT: 0000000

RF sensor serial numbers can be manually entered or learned from the sensor.

- For manual entry, enter the sensor number that was logged for the sensor being programmed. Use the **Shift** button to access alpha characters.
- For automatic entry, press **Shift**, then press **Learn**. The Control Panel will wait for a sensor transmission. Trigger the sensor being programmed and the Control Panel will beep four times and learn the sensor's serial number.

If the sensor being learned is already in memory, the Control Panel will display a sensor learning failure screen when the programming changes are being saved.

For certain sensors with more than two loops, the tamper switch must be used to send a signal to the Control Panel during sensor learning. First press of tamper switch will learn as Loop #1, the second press of tamper switch will learn as Loop#2, the third press of tamper switch will learn as Loop #3.

Wait 15 seconds between each press of the tamper switch.

The programmed loop number of the sensor in the Control Panel may need changing to suit the operation of the device. See the Install Instructions of the sensor for details.

Select RF sensor (#) equipment age (0-1)

DEFAULT: New (0)

The Control Panel can be used with new or existing RF sensors.

- If this RF sensor is new for the installation, leave the default of new(0).
- If this RF sensor is already installed, select existing (1).

NOTE: If the RF sensor has more than one loop and is being programmed into multiple sensor numbers to support the loops, set only one loop as "new" and the other loops as "existing". This will prevent incorrect inventory of the installed sensors.

Select RF sensor (#) loop number (1-3)

DEFAULT: Varies with sensor model selected

2GIG-DW10 door/window sensors have two inputs: an internal magnetic contact and an external normally closed hardwired input. Either or both sensor inputs can be used.

TIP: Some sensors are capable of three loop inputs.

When using both the internal magnetic contact *and* the external input, **the magnet contact and the external contact need to be assigned a different RF sensor number. Both sensor numbers will share the same sensor serial number.**

- When programming the sensor to use the built-in magnetic contact, set the loop number to (2).
 - When programming the sensor to use its hardwired input, set the loop number as (1).
 - When programming a 3-loop sensor to use an additional input, set the loop number as (3).
 - When entering the sensor number for the sensor's loop 2 or 3, the paste button can be used to recall the last programmed sensor's serial number. (The sensor number will be filled in automatically if **Learn** is used.)
-

Select RF sensor (#) dialer delay (0-1)

**DEFAULT: Enabled (1)
(Required SIA CP-01 Default)**

RF sensors can trigger the communicator immediately or after a delay. The delay time is set by the abort window dialer delay programming question Q-35 (the default delay is 30 seconds).

- The default (1) causes delayed dialing for this RF sensor number.
- For immediate dialing for this RF sensor number, select disabled (0).

NOTE: This setting for CO and smoke detectors is automatically set to disabled (0), and this sub-question is skipped for these sensor types.

NOTE: This default can be changed without affecting SIA CP-01 compliance.

Construct RF sensor (#) voice descriptor

DEFAULT: No default

The voice descriptors are the words the Control Panel will announce for this RF sensor if this sensor is programmed for voice annunciation. Up to five words are allowed.

- 1 Press **insert** to place a word from the vocabulary into the data entry field.
 - 2 Use the ← or → arrows to scroll through the words, or enter the word's 3-digit index number (see "System Vocabulary Table" on page 27).
 - 3 Press **insert** again for the next word. Up to five words are allowed.
 - 4 To move between words, press the **Fwd** and **Back** buttons.
 - 5 To remove a word, press **Delete**.
-

Select RF sensor (#) reports (0-1)

DEFAULT: Enabled (1)

RF sensors can be programmed to trigger a report to the Central Station or not.

- The default (1) enables reporting for this RF sensor number.
 - To prevent reporting for this RF sensor number, select disabled (0).
-

Select RF sensor (#) supervised (0-1)

DEFAULT: Enabled (1)

When a sensor is set to supervised, the Control Panel will expect regular timed signals from this sensor or else a sensor supervisory trouble alert will occur.

- The default (1) allows supervision for this RF sensor.
- To turn off supervision for this RF sensor, select disabled (0).

NOTE: Portable sensors such as panic buttons should not be set as supervised if the sensor will be removed from the premises at times.

Select RF sensor (#) chime (0-5) DEFAULT: Disabled (0)

Each RF sensor can be set to sound a “ding-dong” chime and/or sound its voice descriptor when the sensor is triggered. This step determines the initial setting for the sensor. The end user can change the chime setting for sensors using **Chime Setup** in the User Toolbox.

- The default (0) disables the chime for this RF sensor.
- If a chime and/or voice is required for this RF sensor, choose one of the other chime options:

RF Sensor Chime	
(0) disabled	(7) ding-ding with voice
(1) voice only	(8) ding-dong #3
(2) ding-dong with voice #1	(9) ding-dong with voice #3
(3) ding-dong #2	(10) chime #1
(4) ding-dong with voice #2	(11) chime #1 with voice #1
(5) ding-dong #1	(12) chime #2
(6) ding-ding	(13) chime #2 with voice #2

WIRED SENSOR PROGRAMMING

Wired Sensor Programming Outline

The Control Panel can be programmed with up to 2 wired sensors. The wired sensors are hardwired contact loops connected to the loop input terminals on the Control Panel’s terminal strip. To see where the 2 hardwired sensors can be wired into the Terminal Block, see the "Terminal Block Wiring Diagram" on page 15.

CAUTION: Wired Sensors CANNOT be used for a CO or Fire Sensor Loop!

To program the wired sensors into the Control Panel, do the following:

- Select the sensor number (between 1 or 2)
- Select the wired sensor type
- Set the equipment code
- Program the loop type:
 - Open
 - Closed
 - End-of-line resistor
- Select the other options for the sensor (see the diagram on the next page)

IMPORTANT: Wired sensors 1 and 2 report to the Control Panel as sensors 49 and 50.

Wired Sensor Reporting Codes

Wired Sensor #1 = Reports as Sensor #49

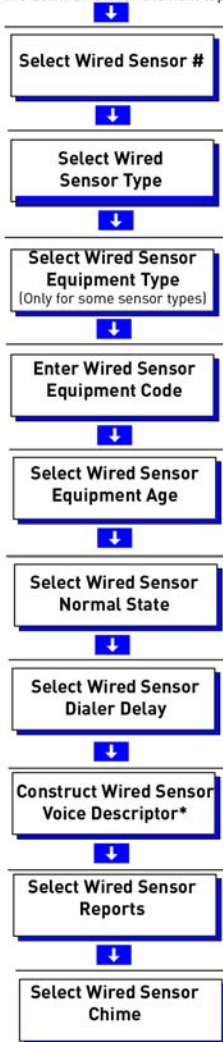
Wired Sensor #2 = Reports as Sensor #50

See the diagram on the next page for the steps required to program wired sensors into the Control Panel. The options that can be set for each wired sensor are:

- Wired Sensor Number — Sensor #1 or 2
- Wired Sensor Type — Exit/entry, perimeter, interior, etc.
- Wired Sensor Equipment Type — Certain sensor types will require the installer to enter an equipment type (but not all)
- Wired Sensor Equipment Code — 4-digit equipment code that matches installed sensor
- Wired Sensor Equipment Age — New install or existing sensor
- Wired Sensor Normal State — normally open, closed, or end-of-line resistor loop
- Wired Sensor Dialer Delay — Delayed or instant communicator reports for the sensor (delay time is set by dialer abort window)
- Wired Sensor Voice Descriptor — Name assigned to the sensor
- Wired Sensor Reports — Communicator reports or no communicator reports for the sensor
- Wired Sensor Chime — Select voice announcement and chime options for the sensor

- 1 Scroll between options using the ← and → arrows. Move to the previous or next prompt by pressing the ↑ and ↓ arrows.

Programming Wired Sensor (Question 2)
Click the down arrow for the next option



*Press **insert** for each word. To select from the list, you can use the keypad or press the left or right arrows.

- 2 To program another sensor click **next**.
- 3 To exit programming, click **skip** then **end** and **exit**. Upon exit, the panel takes a several seconds to reboot.

Wired Sensor Programming Screen

After setting all the options for a sensor, the wired sensor summary screen is displayed. The screen can also be displayed for programmed sensors during wired sensor program editing by pressing the **Sum** button.

- While programming each wired sensor remember that the ← and → arrow buttons step through each of the wired sensor numbers.
- To return to programming, click the **edit current** or **edit next** buttons.
- Pressing **skip** goes to question number Q-3 (RF Key Fob Programming). See "RF Key Fob Programming" on page 37.



NOTE: For the detailed steps of programming a wired sensor, see the following page.

WIRED SENSOR PROGRAMMING STEPS

Q-2 SELECT WIRED SENSOR # (1-2)

Two hardwired loops can be used as sensors with each Control Panel. The options for each wired sensor are programmed with sub-option questions.

- Begin by entering the wired sensor number or select it using the ← or → arrows.
- After selecting the wired sensor number, program the wired sensor details by using the ↑ and ↓ arrows to select each of the sub-options.

NOTE: To skip wired sensor programming, press Skip to jump from question Q-2 to question Q-3 (RF key fob programming).

Select wired sensor (#) type

DEFAULT: Unused (00)

Each wired sensor needs to be assigned to a sensor type.

Select the sensor type that matches the wired sensor's function using the ← or → arrows or enter the sensor type number directly on the keypad.

Sensor Types
(00) unused
(01) exit/entry 1
(02) exit/entry 2
(03) perimeter
(04) interior follower
(05) day zone
(06) 24-hour silent alarm
(07) 24-hour audible alarm
(08) 24-hour auxiliary alarm
(09) 24-hour fire
(10) interior with delay
(14) 24-hour carbon monoxide
(16) 24-hour fire verification
(23) no response type
(24) silent burglary

Select wired sensor (#) equipment type

DEFAULT: Varies by wired sensor type

This question is only displayed when certain sensor types are selected.

The equipment type selection will affect the sensor's extended reporting code.

The following sensor types require equipment type selection:

Sensor Type	Equipment Types Available
(04) interior follower	(1)=motion (2)=contact
(06) 24-hour silent alarm	(1)=contact (11)=emergency
(07) 24-hour audible alarm	(1)=contact (11)=emergency
(08) 24-hour auxiliary	(1)=contact (6)=freeze (8)=water (10)=temperature (11)=emergency
(10) interior with delay	(1)=motion (2)=contact
(23) no response type	(1)=contact (2)=motion

- Select the equipment type that matches the sensor equipment using the ← or → arrows, or enter the equipment type number directly on the keypad.

NOTE: This Control Panel does not provide auxiliary accessory output power.

Connecting a hardwire PIR using equipment type "motion" will require an external stand-alone battery backed-up power supply for the PIR.

Select wired sensor (#) equipment code (0-9999)

DEFAULT: (0)

The wired sensor equipment code defines the sensor's manufacturer and type.

- Enter the 4-digit equipment code for the sensor.

Select wired sensor (#) equipment age (0-1)

DEFAULT: New (0)

The Control Panel can be used with new or existing wired sensors.

- If this wired sensor is new for the installation, leave the default of new(0).
- If this wired sensor is already installed, select existing (1).

Select wired sensor (#) normal state

DEFAULT: Not used (0)

The two hardwired loops can be wired for normally open (N/O) or normally closed (N/C) contacts, or for end-of-line (EOL) resistor.

- The default (0) disables this wired sensor.
- To use this wired sensor, select the way the loop is wired:

Wired Sensor Normal State

- (0) not used
- (1) closed
- (2) open
- (3) end-of-line resistor

Select wired sensor (#) dialer delay (0-1)

DEFAULT: Enabled (1) (Required SIA CP-01 Default)

Wired sensors can trigger the communicator immediately or after a delay. The delay time is set by the abort window dialer delay programming question Q-35 (the default delay is 30 seconds).

- The default (1) causes delayed dialing for this wired sensor number.
- For immediate dialing for this wired sensor number, select disabled (0).

NOTE: This default can be changed without affecting SIA CP-01 compliance.

Construct wired sensor (#) voice descriptor

DEFAULT: No default

The voice descriptors are the words the Control Panel will announce for this wired sensor if this wired sensor is programmed for voice annunciation. Up to five words are allowed.

- 1 Press Insert to place a word from the vocabulary into the data entry field.
- 2 Use the ← or → arrows to scroll through the words, or enter the word's 3-digit index number (see the System Vocabulary Table).
- 3 Press Insert again for the next word. Up to five words are allowed.
- 4 To move between words, press the **Fwd** and **Back** buttons.
- 5 To remove a word, press **Delete**.

Select wired sensor (#) reports (0-1)

DEFAULT: Enabled (1)

Wired sensors can be programmed to trigger a report to the Central Station or not.

- The default (1) enables reporting for this wired sensor number.
- To prevent reporting for this wired sensor number, select disabled (0).

Select wired sensor (#) chime (0-5)

DEFAULT: (0) Disabled

Each wired sensor can be set to sound a “ding-dong” chime and/or sound its

voice descriptor when the sensor is triggered.

- The default (0) disables the chime for this wired sensor.
- If a chime and/or voice is required for this wired sensor, choose one of the other chime options:

Wired Sensor Chime

(0) disabled	(7) ding-ding with voice
(1) voice only	(8) ding-dong #3
(2) ding-dong with voice #1	(9) ding dong with voice #3
(3) ding-dong #2	(10) chime #1
(4) ding-dong with voice #2	(11) chime #1 with voice #1
(5) ding-dong #1	(12) chime #2
(6) ding-ding	(13) chime #2 with voice #2

RF KEY FOB PROGRAMMING

The Control Panel can be programmed with up to 8 RF Key Fobs.

Programming the RF Key Fobs into the Control Panel involves selecting the sensor number for a particular device, setting or learning the RF Key Fob's serial number, and selecting the other options for the sensor.

IMPORTANT: RF Key Fobs 1 - 8 report to the Control Panel as sensors 51 - 58 (opening/closing, emergency, and low battery reports).

RF Key Fob #1	Reports as sensor #51
RF Key Fob #2	Reports as sensor #52
RF Key Fob #3	Reports as sensor #53
RF Key Fob #4	Reports as sensor #54
RF Key Fob #5	Reports as sensor #55
RF Key Fob #6	Reports as sensor #56
RF Key Fob #7	Reports as sensor #57
RF Key Fob #8	Reports as sensor #58

See the diagram for the steps required to program RF Key Fobs into the Control Panel. The options that can be set for each RF Key Fob are:

- Key Fob Number — Key Fob number 1-8
- Key Fob Used — Key Fob used or not
- Key Fob Equipment Code — Key Fob model
- Key Fob Other Equipment Code — Enter special equipment code (only shown for Key Fobs set as "other")
- Key Fob Serial # — Serial number labeled on Key Fob; "learn-in" by sending signal
- Key Fob Equipment Age — New unit or existing Key Fob
- Key Fob Emergency Key — Choose function of double-press on top buttons
- Key Fob Can Disarm — Choose whether a Key Fob is allowed to disarm the system
- Key Fob Voice Descriptor — Name assigned to the Key Fob
- Key Fob Arm No Delay — Choose if Key Fob will arm instantly without an Exit Delay
- Key Fob Key 4 Output — Select action for Key Fob auxiliary button

- 1 Scroll between options using the ← and → arrows. Move to the previous or next prompt by pressing the ↑ and ↓ arrows.

Programming Key Fob Sensor (Question 3)

Click the down arrow for the next option

↓

Select Key Fob #

↓

Select Key Fob Used

↓

Select Key Fob Equipment Code

↓

Enter Key Fob Other Equipment Code
(only for "other" equipment)

↓

Enter Key Fob Serial Number

↓

Select Key Fob Equipment Age

↓

Select Key Fob Emergency Key

↓

Select Key Fob Key 2 Can Disarm

↓

Construct Key Fob Voice Descriptor*

↓

Select Key Fob Arm No Delay

↓

Select Key Fob Key 4 Output

- 2 To program another sensor click **next**.
- 3 To exit programming, click **skip** then **end** and **exit**. Upon exit, the panel takes a several seconds to reboot.

TIP: Pressing **Skip** goes to question Q-4. See "RF Keypad Programming Steps" on page 40.

RF KEY FOB PROGRAMMING STEPS

Q-3 SELECT FOB # (1-8)

Up to eight wireless 4-button key fobs can be used with each Control Panel. Key fobs reports as sensors 51-58. The options for each Fob are programmed with sub-option questions.

- Begin by entering the Fob number or select it using the ← or → arrows.
- Program the key fobs by using ↑ and ↓ arrows to select the sub-options.

NOTE: To skip RF Key Fob programming, press **Skip** to jump from question Q-3 to question Q-4 (RF keypad programming). See "RF Keypad Programming Steps" on page 40.

Select Fob (#) used (0-1)

DEFAULT: Unused (0)

Key fobs can be used with the Control Panel or not.

- The default (0) sets all key fobs as unused (0).
- To enable programming for this Key Fob, select used (1).

Select Key Fob (#) equipment code (0-9999)

DEFAULT: (0000) other

The Key Fob equipment code defines the sensor's manufacturer and type.

- The default is (0000) other.
- Select (0866) KEY2-345 4-button Key Fob remote for a 2GIG-KEY2 Key Fob remote.
- Select (0577) Existing Key Fob remote for an existing Key Fob remote.

NOTE: Only 2GIG-KEY1-345 or 2GIG-KEY2-345 key fobs can be used with this system.

Enter Key Fob (#) other equipment code (0-9999)

DEFAULT: 0

NOTE: This question is only displayed if "(0000) other" is selected for a Key Fob's equipment code.

- The equipment code is a 4-digit code that is assigned to the model of Key Fob being used.

- Enter the equipment code number for the Key Fob.

Enter Fob (#) serial number (7 digits)

DEFAULT: 0000000

Key fob serial numbers can be manually entered or learned from the fob.

- For manual entry, enter the fob number that was logged for the fob being programmed. Use the **Shift** button to access alpha characters.
- For automatic entry, press **Shift**, then press **Learn**. The Control Panel will wait for a fob transmission. Trigger the fob being programmed and the Control Panel will learn the fob's serial number.

Select Fob (#) equipment age (0-1)



DEFAULT: New (0)

The Control Panel can be used with new or existing key fobs.

- If this fob is new for the installation, leave the default of new(0).
- If this fob is already installed, select existing (1).


Select Fob (#) emergency key (0-4)

DEFAULT: Disabled (0)

Pressing the  and  buttons on a key fob at the same time for 5 seconds can trigger an emergency alarm.

- The default (0) disables the emergency function for this Fob.
- To enable the emergency function for this Fob, select 1 of the 4 options:
 - (0) disabled
 - (1) auxiliary alarm
 - (2) audible alarm
 - (3) silent panic
 - (4) fire

Select Fob (3) key 2 can disarm (0-1) Default: Enabled (1)

As an installer, consult the user as to whether to set the Key Fob to allow disarming the Control Panel with the Key Fob's  button. If the user wants the Key Fob used as a stationary wall Fob, it can also be set to prevent using the Key Fob to disarm the system.

- The default (1) allows the Fob to disarm the system.
- To not allow the Fob to disarm the system, select disabled (0).

Construct Fob (#) voice descriptor DEFAULT: Keyfob (#)

The voice descriptor are the actual the words that the Control Panel use for this Fob for low battery *announcements* and log entries. Up to five words are allowed.


- 1 Press **Insert** to place a word from the vocabulary into the data entry field.
- 2 Use the ← or → arrows to scroll through the words, or enter the word's 3-digit index number.
- 3 Press **Insert** again for the next word. Up to five words are allowed.
- 4 To remove a word, press **Delete**.

Select Fob (#) arm no delay (0-1) DEFAULT: Disabled (0)

Key fobs can be set to arm the Control Panel with or without an Entry Delay.

- The default (0) sets this Fob to arm the system *with* an Entry Delay.
- To set this Fob to arm the system without an Entry Delay, select enabled (1).

Select Fob (#) key 4 output (0-2) DEFAULT: Disabled (0)

The Key Fob's  auxiliary button can be used to trigger the Control Panel's open collector output.

The default (0) disables this Fob's auxiliary button.

To use this Fob's auxiliary button, select the output function:

- (0) disabled
- (1) toggle output
- (2) momentary output

RF KEYPAD PROGRAMMING

The Control Panel can be programmed with up to 4 RF remote control keypads or wireless touch screen (TS-1) keypads.

NOTE: RF Keypads 1 - 4 report to the Control Panel as sensors 59 - 62 (for emergency, and low battery reports).

RF Keypad Reporting Codes

RF Keypad #1	Reports as sensor #59
RF Keypad #2	Reports as sensor #60
RF Keypad #3	Reports as sensor #61
RF Keypad #4	Reports as sensor #62

- User Codes #1 - #8 are reported for openings and closings
- User Code #0 is reported for Quick Arming

The following options can be set for each RF Remote Control Keypad:

RF Keypad Number — Keypad number 1-4

Q-4 Sub-Questions:

- RF Keypad Used — Keypad used or not
- RF Keypad Equipment Code — Sensor model
- RF Keypad Other Equipment Code — Enter special equipment code (only shown for sensors set as "other")
- RF Keypad Serial # — Serial number labeled on keypad; manually enter or "learn" by sending signal
- RF Keypad Equipment Age — New unit or existing keypad
- RF Keypad Emergency Keys — Enable or disable Keypad emergency keys
- RF Keypad Voice Descriptor — Name assigned to the Keypad

RF Keypad Summary Screen

After setting all the options for a sensor, the RF keypad summary screen is displayed. The screen can also be displayed for *programmed* RF keypads by pressing the **Sum** button.

- To return to programming, click the **edit current** or **edit next** buttons.
- Pressing **skip** goes to question Q-5 (Control Panel programming).
- To exit programming, click **skip** then **end** and **exit**. Upon exit, the Control Panel takes a several seconds to reboot.

RF KEYPAD PROGRAMMING STEPS

Q-4 SELECT RF KEYPAD # (1-4)

Up to four wireless keypads can be used with each Control Panel. The options for each sensor are programmed with sub-option questions.

- Begin by entering the RF Keypad number or select it using the ← or → arrows.
- Program the RF keypads by using the ↑ and ↓ arrows to select the sub-options.

To skip RF Keypad programming, press **Skip** to jump from question Q-4 to question Q-5 (Exit Delay programming).

Select RF Keypad (#) used (0-1)

DEFAULT: Unused (0)

Users can use RF keypads together with a Control Panel or not.

- The default (0) sets all RF keypads as unused.
- To enable programming for this RF Keypad, select used (1).

Select RF Keypad (#) equipment code (0-9999)

DEFAULT: (0000) other

The RF Keypad equipment code defines the sensor's manufacturer and type.

- The default is (0000) other.
- Select (867) PAD1-345 wireless Keypad for a 2GIG-PAD1 RF Keypad.
- Select (1059) TS-1 wireless touchscreen Keypad for a 2GIG-TS1 Wireless Touch Screen Keypad.

NOTE: The TS-1 wireless keypad is not for UL985 installations.

Enter RF Keypad (#) other equipment code (0-9999)

DEFAULT: 0

NOTE: This question is only displayed if "(0000) other" is selected for an RF Keypad's equipment code.

IMPORTANT: The equipment code is a 4-digit code that is assigned to the model of Keypad being used.

- Enter the equipment code number for the RF Keypad.

Enter RF Keypad (#) serial number (7 digits)

DEFAULT: 0000000

or

RF Keypad (#) Keypad id (read-only)

RF Keypad serial numbers for standard keypads can be manually entered or learned from the RF Keypad. Model 2GIG-TS1 wireless touch screen keypads serial numbers can **only** be learned from the Keypad. Read-only with Keypad id's refer to the installer being unable to manually input an id.

Standard Keypads:

- For manual entry, enter the RF Keypad number that was logged for the RF Keypad being programmed. Use the **Shift** button to access alpha characters.
- For automatic entry, press **Shift** then press **Learn**. The Control Panel waits for an RF Keypad transmission. Trigger the RF Keypad being programmed, and the Control Panel will learn the RF Keypad's serial number.

TS1 Wireless Touch Screen Keypads:

- For 2GIG-TS1 Wireless Touch Screen Keypads press **Learn**. The Control Panel will display "Pair with TS-1. Initiating learning process." Press the TS1 Keypad's **pair with panel** button. Both the TS1 and the Control Panel display "The learn operation succeeded" when complete.
- The Control Panel will display "RF Keypad (#1-4)" for Keypad identification.
- The TS1 displays "Network ID: xxxx" which is the unique serial number identifying the specific Keypad.
- Press **Ok** on both the Control Panel and the TS1 to continue.

NOTE: The Model 2GIG-TS1 wireless touch screen Keypad will display "The security system is temporarily not operational" after learning the Keypad. This is normal, and will be displayed anytime the Control Panel is in system configuration (programming) mode.

Select RF Keypad (#) equipment age (0-1)

DEFAULT: New (0)

The Control Panel can be used with new or existing RF keypads.

- If this RF Keypad is new for the installation, leave the default of new(0).
 - If this RF Keypad is already installed, select existing (1).
-

Select RF Keypad (#) emergency keys (0-1)

DEFAULT: Enabled (1)

NOTE: This step is not displayed for Model 2GIG-TS1 keypads.

Standard RF keypads have 24-hour emergency buttons labeled Fire and Police.

- The default (1) enables this RF Keypad's emergency keys.
- To disable this RF Keypad's emergency keys, select disabled (0), the keys will not be able to trigger an alarm or report.

NOTE: The RF Keypad's POLICE button triggers a silent alarm if programming question Q-16 is set to silent panic.

IMPORTANT: To ensure that a signal is sent, instruct the end user to press the RF Keypad's emergency keys until the Keypad's indicator lights.

Construct RF Keypad (#) voice descriptor

DEFAULT: Keypad (#)

The voice descriptor is the words the Control Panel will announce for this RF Keypad. Up to five words are allowed.

- 1 Press **Insert** to place a word from the vocabulary into the data entry field.
- 2 Use the ← or → arrows to scroll through the words, or enter the word's 3-digit index number.
- 3 Press **Insert** again for the next word. Up to five words are allowed.
- 4 To remove a word, press **Delete**.

CONTROL PANEL PROGRAMMING QUESTIONS

Q-5 Enter exit delay, in seconds (45-120)

DEFAULT: 60 seconds

(Required SIA CP-01 Default)

The Exit Delay can be set from 45 to 120 seconds.

- The default (60) sets the Exit Delay to 60 seconds.
- To change the Exit Delay, enter a value from (45-120) seconds.

NOTE: This default can be changed without affecting SIA CP-01 compliance.

Q-6 Enter entry delay 1, in seconds (30-240)

DEFAULT: 30 seconds (Required SIA CP-01 Default)

The Entry Delay #1 can be set from 30 to 240 seconds.

- The default (30) sets the Entry Delay #1 to 30 seconds.
- To change the Entry Delay #1, enter a value from (30-240) seconds.

NOTE: Per SIA CP-01, the combination of the Abort Window Dialer Delay (Q-35) and the Entry Delay (Q-6 or Q-7) cannot exceed one minute.

Q-7 Enter entry delay 2, in seconds (30-240)

DEFAULT: 45 seconds (Required SIA CP-01 Default)

The Entry Delay #2 can be set from 30 to 240 seconds.

- The default (45) sets the Entry Delay #2 to 45 seconds.
- To change the Entry Delay #2, enter a value from (30-240) seconds.

NOTE: Per SIA CP-01, the combination of the Abort Window Dialer Delay (Q-35) and the Entry Delay (Q-6 or Q-7) cannot exceed one minute.

Q-8 Select dialer (0-1)

DEFAULT: Disabled (0)

The dialer (digital communicator) can be enabled for a monitored system or disabled for a local alarm or when the cell radio module is used exclusively for reporting.

- The default (0) sets the dialer as disabled.
- To turn on the dialer, select enabled (1).

NOTE: If the dialer is disabled with this programming question, telephone line failure detection is also disabled regardless of the setting of the telephone fail detection question Q-63.

Q-9 Enter dialing prefix (0-4 digits)

DEFAULT: No default

Some telephone PBX systems require a dialing prefix to acquire a dial tone.

- If the telephone system that the Control Panel is connected to requires a dialing prefix, enter up to four digits.
 - The **Shift** button accesses the pound and star symbols. The P button adds a 3-second pause to the dialing.
-

Q-10 Enter call waiting disable code (0-6 digits)

DEFAULT: No default (Required SIA CP-01 Default)

If the subscriber's telephone line has call waiting, incoming call tones on the line could interfere with a communicator report to the Central Station. To prevent this, the communicator can send the call waiting disable code before making a report.

- If call waiting is active on the telephone line, enter the call waiting disable code.
- The **Shift** button accesses the pound and star symbols. The P button adds a 3-second pause to the dialing.

NOTE: If the first attempt fails, this code will be ignored on the rest of the attempts.

Q-11 Enter CS #1 phone number (0-25 digits)

DEFAULT: No default

The telephone number for Central Station #1 can be up to 25 digits.

- Enter the Central Station #1 telephone number.
- You can access the pound and star symbols using the **Shift** button. The **P** button adds a 3-second pause to the dialing.

NOTE: If a second Central Station telephone number is programmed with question Q-41, the Control Panel alternates between the two Central Station telephone numbers. After two failed telephone dialing attempts, the Control Panel attempts to connect using the Cell Radio Module if it is installed. If the Cell Radio Module is not installed, the Control Panel will make 8 dialing attempts.

Q-12 Enter CS #1 account number (4 digits)

DEFAULT: No default

The account number for Central Station #1 is always four digits and can include some alpha characters.

- Enter four digits for the Central Station #1 account number.
- The **Shift** button accesses B, C, D, E, and F characters.

Q-13 Select 2-way voice (0-2)

DEFAULT: Stay on line (1)

The Control Panel supports 2-way voice communications between the subscriber and the Central Station operator over the telephone line or the Cell Radio Module (if installed) after an alarm has been reported.

- The default (1) allows 2-way audio over the telephone line or cell radio.
- Selecting (2) allows 2-way audio over the telephone line or cell radio during fire and CO alarms.
- To turn off the 2-way audio feature, select disabled (0).

When the Control Panel connects with the operator, it will beep once per second (every 6 seconds with a cell radio connection). The beep alternates between two tones and indicates the

Control Panel is waiting for a session command. If the operator fails to issue a command within one minute (three minutes with a cell radio connection), the call is terminated. Once the operator presses a command option, the beeps will stop and a 5-minute audio session will start (3-minute audio session with a cell radio connection).

When 2-way voice communications have been established, the Central Station operator can use the following telephone keys to control the communications. Each time the operator uses a command key, the session is extended for five additional minutes (three minutes with a cell radio connection). During the last minute of communications, the system beeps twice every 15 seconds to indicate that time is running out.

- Pressing 1 enables Talk Mode one-way communication from the Central Station to the Premises and allows the operator to talk.
- Pressing 2 enables VOX Mode two-way communications from the Central Station to the premises.
- Pressing 3 enables Listen Mode one-way communication from the premises to the Central Station.
- Pressing 4 extends the session five minutes without changing the mode of operation.
- Pressing 5 causes the audio session to end and terminates the call.

Q-14 Select silent panic/burglary listen only

DEFAULT: Enabled (1)

The Control Panel supports audio listen-in of the subscriber premises from the Central Station over the telephone line after a silent panic (police emergency), silent burglary, or duress alarm has been reported.

- The default (1) enables audio listen-in after a silent panic, silent burglary, or duress alarm.
- This option is permanently set and cannot be disabled.

Q-15 Select dialing type (0-1)


DEFAULT: Touch tone (0)

The digital communicator uses tones or pulses.

- The default (0) is for touch tone (DTMF) dialing.
- For rotary dialing, select pulse (1).

Q-16 Select police emergency key (0-2)

DEFAULT: Audible (1)


The Control Panel's panic emergency button action can be programmed. The panic emergency button is displayed by pressing the  button.

- The default (1) allows the panic emergency button to sound an audible alarm.
- For silent activation, select silent panic (2).
- To disable and not display the panic emergency button, select disabled (0).

NOTE: Setting this programming question for silent panic (2) makes the **Police** button on all RF keypads silent also.

Q-17 Select fire emergency key (0-1)


DEFAULT: Audible (1)

The Control Panel's fire emergency button can be enabled or disabled. The fire emergency button is displayed by pressing the Control Panel's  button.


- The default (1) allows the fire emergency button to sound an audible alarm.
 - To disable and not display the fire emergency button, select disabled (0).
-

Q-18 Select emergency key (0-1)

DEFAULT: Audible (1)

The Control Panel's emergency button can be enabled or disabled. The panel's emergency button is displayed by pressing the Control Panel's  button.

- The default (1) allows the emergency button to sound an audible alarm.
- To disable and not display emergency button, select disabled (0).

NOTE: If all three emergency buttons are disabled, pressing the Control Panel's  button displays a message that the emergency buttons are disabled.

Q-19 Select quick arming (0-1)

DEFAULT: Enabled (1)

Quick arming allows the subscriber to arm the system without having to enter their User Code. (Quick arming reports as User 0 if open/close reports are sent.)

- The default (1) allows quick arming.
 - To turn off quick arming, select disabled (0).
-

Q-20 Select swinger shutdown count (1-6)

DEFAULT: Two trips (2) (Required SIA CP-01 Default)

An unwanted series of multiple faults (usually caused by a bad contact or sensor) is called a "swinger." Swinger shutdown sets the maximum number of alarms that any sensor or hardwire loop can trigger during a single arming period.

NOTE: CO and smoke detector alarms are not limited by the swinger shutdown count. Other types of 24-hour zones are limited by the swinger shutdown count.

- The default (2) sets the swinger shutdown count at two trips.
- To change the swinger shutdown count, select (1-6).

NOTE: This default can be changed without affecting SIA CP-01 compliance.

Q-21 Select siren supervision time (0-3)

DEFAULT: Disabled (0)

The wiring connection to the external sounder can be supervised. If the wiring to the sounder is cut for 15, 30, or 45 seconds, a bell trouble report can be sent to the Central Station.

- The default (0) disables external sounder supervision.
 - To supervise the external sounder wiring, select:
 - (1) for 15 seconds
 - (2) for 30 seconds
 - (3) for 45 seconds
-

Q-22 Enter CS lack of usage notification time (0-255)

DEFAULT: Seven days (7)

Inactivity reports can be sent to the Central Station if the system has not been armed for a period of days.

- The default (7) sets the lack of usage feature at seven days.
 - To change the lack of usage feature duration, select (1-255) days.
 - To turn off the lack of usage feature, select disabled (0).
-

Q-23 Enter radio modem network failure time (0-255)

DEFAULT: 30 minutes

NOTE: Cell Radio Module must be installed to use this function.

Sets the amount of time required for triggering a trouble condition if the system detects that the optional cellular radio module has lost its cellular connection. (After cellular service has been restored for 5 minutes, the trouble condition clears.)

- The default (30) sets the failure detection time at 30 minutes.
- To disable radio module failure detection, select disabled (0).
- To choose a different failure detection time, select (1-255) minutes.

Q-24 Select radio modem network failure causes trouble (0-1)

DEFAULT: Enabled (1)

NOTE: Cell Radio Module must be installed to use this function.

Selects whether the control panel will sound and display trouble if the optional cell radio module has lost its cellular connection. The trouble sounder can be silenced by the user at the Control Panel (cell radio trouble is logged regardless of this setting). When the cellular radio module connection is restored, the trouble indications automatically clear.

- The default (1) allows radio module failure trouble indications.
- To turn off radio module failure trouble indications, select disabled (0).

Q-25 Select radio modem network failure reports (0-1)

DEFAULT: Enabled (1)

NOTE: Cell Radio Module must be installed to use this function.

If the optional cell radio module loses its cellular connection, the Control Panel can report the fault and restore via land-line if telephone reporting is enabled.

- The default (1) allows radio module failure/restore reporting.
- To turn off radio module failure/restore reporting, select disabled (0).

Q-26 Select auto stay (0-1)

DEFAULT: Enabled (1) (Required SIA CP-01 Default)

When auto stay is enabled and the system is armed in the Away Mode, if an exit/entry sensor is not violated during the Exit Delay, the system will arm in the Stay Mode.

- The default (1) enables the auto stay feature.
- To turn off the auto stay feature, select disabled (0).

NOTE: The auto stay feature does not switch the system to Stay Mode if the system is armed to Away Mode using a Key Fob remote or remotely armed via telephone, mobile app, or computer.

Q-27 Select exit delay restart (0-1)

DEFAULT: Enabled (1) (Required SIA CP-01 Default)

When Exit Delay restart is enabled, re-entering the premises through an exit/entry door during the Exit Delay will restart the Exit Delay. The restart of the Exit Delay will only occur one time; further violations of an exit/entry sensor will not extend the Exit Delay.

- The default (1) enables the Exit Delay restart feature.
- To turn off the Exit Delay restart feature, select disabled (0).

Q-28 Select quick exit (0-1)

DEFAULT: Enabled (1)

The quick exit feature allows the user to start the Exit Delay while the system is armed. When this feature is enabled, a **Quick Exit** button appears on the Security Screen. Pressing **Quick Exit** while the system is armed allows the user to leave through an exit/entry door. After the Exit Delay expires, the system will return to being armed in the mode it was in before (either Stay or Away Mode).

- The default (1) enables the quick exit feature.
- To turn off the quick exit feature, select disabled (0).

Q-29 Enter periodic test, in days (0-255)

DEFAULT: 30 days

Automatic test reports can be sent to the Central Station every certain number of days.

- The default (30) sends an automatic test report every 30 days.
 - To set a different period for automatic test reports, select (1-255) days.
 - To disable automatic test reports, select (0).
-

Q-31 Enter cancel time, in minutes (5-255)

DEFAULT: 5 minutes (Required SIA CP-01 Minimum)

A cancel report will be sent to the Central Station after an alarm, if the system is disarmed within the programmed time.

- The default (5) sets the cancel time at five minutes.
- For a longer cancel time, select (6-254) minutes.
- To have the Control Panel always send a cancel report when the system is disarmed after an alarm, select (255).

NOTE: See Q-32 for information on displaying when a cancel report is sent.

NOTE: This default can be changed without affecting SIA CP-01 compliance.

Q-32 Select cancel display (0-1)

DEFAULT: Enabled (1) (Required SIA CP-01 Default)

A cancel report will be sent to the Central Station after an alarm, if the system is disarmed within the programmed time. The Control Panel can also display that a cancel report was sent.

- The default (1) enables the cancel display feature.
- To turn off the cancel display feature, select disabled (0).

NOTE: See Q-31 for information on setting the cancel report trigger time.

NOTE: This default can be changed without affecting SIA CP-01 compliance.

Q-33 Select cross sensor 47-48 (0-1)

DEFAULT: Disabled (0)

The Control Panel can be programmed so sensors 47 and 48 must both be violated during a set time to trigger an alarm. This is called “cross sensor” verification. When enabled, if only one sensor (47 or 48) is violated, the alarm will not trigger, but a trouble report will be sent for the sensor that triggered.

NOTE: CO and fire zone cannot be used for cross sensors.

- The default (0) disables the cross sensor feature.
- To use the cross sensor feature, select enabled (1).

NOTE: See Q-34 for information on setting the cross sensor timeout.

Q-34 Enter cross sensor timeout, in seconds (10-120)

DEFAULT: 10 seconds

The cross sensor timeout is the maximum period of time allowed between violation of sensors 47 and 48 that will trigger an alarm. If both sensors are violated within this time period, an alarm will be triggered. If both sensors are not violated within this time period, an alarm will not be triggered.

NOTE: Cross sensor verification must be enabled with Q-33 for this feature to function.

- The default (10) sets the cross sensor timeout at 10 seconds.
 - To change the cross sensor timeout duration, select (11-120) seconds.
-

Q-35 Select abort window dialer delay (0-2)

DEFAULT: 30 seconds (1) (Required SIA CP-01 Default)

The dialer (digital communicator) delays calling the Central Station to allow the user enough time to cancel a false alarm before it is reported.

- The default (1) sets the dialer delay at 30 seconds.
- To change the dialer delay, select (0) for 15 seconds or (2) for 45 seconds.

NOTE: Per SIA CP-01, the combination of the Abort Window Dialer Delay (Q-35) and the Entry Delay (Q-6 or Q-7) cannot exceed one minute.

NOTE: The dialer delay can be disabled per sensor without affecting SIA CP-01 compliance. See "RF Sensor Programming Steps" on page 30.

Q-36 Select burglary bell cutoff (0-4)

DEFAULT: 4 minutes (0)

When a burglary alarm is triggered, the bell will sound until the burglary bell cutoff time expires.

- The default (0) sets the burglary bell cutoff to 4 minutes.
- To change the burglary bell cutoff time, select (1), (2), (3), or (4).

Burglary Bell Cutoff Time

- (1) 8 minutes
- (2) 12 minutes
- (3) 16 minutes
- (4) Unlimited time

NOTE: The 24-hour Auxiliary Alarm Zone (08) does not follow the burglary bell cutoff time and will sound the Control Panel's local alarm until a User Code is entered. The Auxiliary Alarm Zone does not trigger the external siren (if used).

Q-37 Select fire bell cutoff (0-4)

DEFAULT: 4 minutes (0)

When a fire alarm is triggered, the bell sounds until the fire bell cutoff time expires.


- The default (0) sets the fire bell cutoff time to 4 minutes.
- To change the fire bell cutoff time, select (1), (2), (3), or (4)


Fire Bell Cutoff Time

- (1) 8 minutes
- (2) 12 minutes
- (3) 16 minutes
- (4) Unlimited time


Q-38 Enter time to detect AC loss, in minutes (0-30)

DEFAULT: 10 minutes (10)

AC power loss will cause an AC power loss alert  to be displayed, and the length of time before it is displayed can be set. When power returns, the

time required before the AC power loss alert  automatically clears is fixed at one minute.

- The default (10) sets the AC power loss alert display time to ten minutes.
- To change the AC power loss alert display time, enter (0-30) minutes.

NOTE: After the AC power alert  is displayed or clears, the AC power loss report or AC power restore report can be sent to the Central Station immediately, or at a random time, see Q-39.

NOTE: The Control Panel's AC power icon displays the power status immediately. A red "X" over the icon indicates no AC power.

Q-39 Select random AC loss report time (0-1)

DEFAULT: Enabled (1)

This feature allows the system to report AC power loss and AC power restore at a random time of up to 45 minutes after the event occurs. This helps to reduce Central Station congestion due to a widespread power outage affecting many Control Panels at once. The random AC power status report timer is triggered based on the time set by Q-38.

- The default (1) allows random timed AC power reports.
- To turn off random timed AC power reports, select disabled (0).

Q-40 Enter CS #2 phone number (0-25 digits)

DEFAULT: No default

The telephone number for Central Station #2 can be up to 25 digits. Central Station telephone #2 is dialed as backup in case telephone #1 does not connect.

- Enter the Central Station #2 telephone number.
- The **Shift** button accesses the pound and star symbols. The **P** button adds a 3-second pause to the dialing.

Q-41 Enter CS #2 account number (4 digits)

DEFAULT: No default

The account number for Central Station #2 is always four digits and can include some alpha characters.

- Enter four digits for the Central Station #2 account number.
- The **Shift** button accesses B, C, D, E, and F characters.

Q-42 Select remote control phone (0-3)

DEFAULT: Data and voice (3)

This setting controls remote telephone access to the system. The data option is for the installer. It allows access for programming and operating the system with custom PC downloader software.

The voice option is for the subscriber. It allows the subscriber to call the system from an off-site phone, to get the status of the system, and to perform remote commands. These commands are executed by entering touch tones. The status is reported back via voice prompts. A valid User Code is required for remote telephone access. The user will be able to perform the following functions: arm in any mode, disarm, bypass, get system status, and turn on or turn off the open collector output.

If voice access is enabled, to connect to the panel, the subscriber will need to call the telephone number that the Control Panel is connected to, wait for one or two rings, then hang up. The subscriber needs to call again, within 10-45 seconds. The Control Panel answers the call.

When the panel answers the phone, the user will be prompted to enter their code. If a valid code is entered, the system will announce the current system status. If an invalid code is entered, the panel will ask for the code again. After two invalid attempts, the panel will disconnect. After two calls, with two invalid attempts each, the panel will lock out. The lock out will last for 30 minutes.

- The default (3) enables data and voice access.
- For data only access, select (1).
- For voice access only, select (2).
- To disable remote access, select (0).

Remote Control Phone Mode

- (1) data only
- (2) voice only
- (3) data and voice

Telephone Key	Remote Control Phone Mode
1	System status report
2	Arm the system in Away Mode
3	Arm the system in Stay Mode
4	Disarm the system

Telephone Key	Remote Control Phone Mode
5	Turn on the auxiliary output
6	Turn off the auxiliary output
7	Stop the system status report
8	Disconnect (hangup)
9	Repeat command menu
#	Bypass all open sensors and arm system

NOTE: Remotely arming the system to Away Mode will not start an Exit Delay or activate Auto Stay Mode (if enabled).

Q-43 Enter installer code (4 digits) DEFAULT: 1561

The Installer Code is the code required to enter the Installer Toolbox.

- The default for the Installer Code is 1561.
- To change the Installer Code, enter a new 4-digit code.

BE SURE TO WRITE DOWN THE NEW CODE!

NOTE: The Installer Code must be unique from any User Codes.

Q-44 Select lock installer programming (0-2) DEFAULT: Disabled (0)

The installer programming lockout feature is provided to prevent takeovers. The Control Panel can be set to limit an installer's access to programming questions after a period of 48 hours. The 48 hour lockout timer starts when the installer exits system configuration mode. Three options are available:

- unlimited full access to programming (no lockout)
- limited access to programming after 48 hours
- no access to programming after 48 hours

The default (0) selects unlimited full access to programming (no lockout).

To deny access to programming after 48 hours, select no access to programming (1).

To select limited access to programming after 48 hours, select (2). After the system has run for 48 hours, installer will be able to view, but not change, the Central Station phone number, Central Station account number, lock installer programming, download ID, and default lockout fields.

After the 48 hour lockout timer has locked out the system, the timer can be reset through the cell radio or PC downloader by remotely setting this question Q-44 to (0) or (2). Setting the option to (0) or (2) will restart the 48 hour lockout timer.

Q-45 Select lock default programming (0-2) DEFAULT: Default all (0)

The Control Panel may be able to be hard reset (or soft reset from the Installer Toolbox) to its factory default values depending on the value entered for this programming question.

The Control Panel is hard reset by pressing and holding the  and  buttons while applying power to the Control Panel.

The default lockout feature is provided to prevent takeovers. Three options are available: allow default of all options, allow default of some but not all options, not allow default of any options.

- The default setting of default all (0) allows resetting the Control Panel to all its factory defaults.
- To allow resetting the Control Panel to all its factory defaults except the Central Station phone number, Central Station account number, lock installer programming, download ID, and default lockout fields, select (1).
- To deny hard and soft resetting of the Control Panel, select default none (2).

If option 1 or 2 is selected, the option takes effect after the system runs for 48 hours. This allows the installer to go back and make changes if required.

Q-46 Select trouble doesn't sound at night (0-1) DEFAULT: Enabled (1)

The Control Panel will sound trouble beeps caused by AC loss, system low battery, sensor low battery or RF supervision, failure to communicate, Control Panel tamper while disarmed, and cell radio faults.

To prevent annoying the subscriber, the system can be set to suppress trouble beeps from sounding from 10pm to 9am. The trouble alerts are still displayed and immediately reported to the Central Station, and can be acknowledged, but they won't sound beeps until after 9am.

If the trouble condition(s) self-clear or are acknowledged before 9am, no trouble beeps sound after 9am (the conditions are still recorded in the event log).

- The default (1) suppresses trouble beeps from 10pm to 9am
- To allow trouble beeps at any time, select disabled (0)

WARNING: For UL985 Installations, this feature MUST BE disabled.

Q-47 Select trouble resound after hold off (0-7) DEFAULT: Disabled (0)

Fire and CO sensors are required to re-sound trouble beeps every four hours until the trouble is resolved, even if the trouble is acknowledged at the Control Panel. The Control Panel can be set to delay re-sounding these types of trouble beeps for 1-7 days.

NOTE: This feature is not allowed in UL 985 installations. The setting must be disabled (0) in this grade of installation.

- The default (0) allows trouble beeps for CO and fire sensors to re-sound every four hours after being acknowledged
- To delay re-sounding trouble beeps for CO and fire sensors, select (1-7) days

Q-48 Enter download CSID (6 digits) DEFAULT: 000000

The system supports a 6-digit CSID code that is used for remote telephone programming of the Control Panel. This code is verified when the Control Panel connects with the downloading software. If the CSID code doesn't match the downloading software, the Control Panel will deny the connection.

- The CSID code can be entered manually with this programming question.
- If this field is left with the default (000000), the first time the downloading software connects with the Control Panel, the field will be filled with the software's CSID.

Q-49 Select programming mode entry reports to CS (0-1) DEFAULT: Disabled (0)

A report can be sent to the Central Station any time installer programming mode is entered and exited.

- The default (0) prevents reporting programming mode entry and exit.
- To report programming mode entry and exit, select enabled (1).

NOTE: This report can only be sent through the telephone dialer. It is not supported through the cell radio module.

Q-50 Select trouble reports to CS (0-1)

DEFAULT: Enabled (1)

Trouble reports can be sent to the Central Station when any sensor trouble condition occurs.

- The default (1) allows reporting sensor trouble conditions.
- To not report sensor trouble conditions, select disabled (0).

NOTE: This setting does not affect trouble reports caused by Control Panel conditions, only trouble reports caused by sensors.

Q-51 Select manual bypass reports to CS (0-1)

DEFAULT: Disabled (0)

Manual bypass reports can be sent to the Central Station when any sensor has been manually bypassed by the user.



- The default (0) prevents sending manual bypass reports.
 - To allow sending manual bypass reports, select enabled (1).
-

Q-52 Select AC loss reports to CS (0-1)

DEFAULT: Enabled (1)

AC power loss reports can be sent to the Central Station if the Control Panel loses AC power.

- The default (1) allows AC power loss reports.
- To turn off AC power loss reports, select disabled (0).

NOTE: The AC power will have to be absent from the Control Panel for the time set by programming question Q-38 before the AC power loss trouble alert  is displayed (the default is 10 minutes). If programming question Q-39 is enabled, the actual AC power loss report will occur at a random time of up to four hours after the AC power loss trouble alert  is displayed.

NOTE: The Control Panel's AC power icon displays the power status immediately. A red "X" over the icon indicates no AC power.

Q-53 Select system low battery reports to CS (0-1)

DEFAULT: Enabled (1)

Low battery reports can be sent to the Central Station if the Control Panel's battery tests low.

- The default (1) allows Control Panel low battery reports.
 - To turn off Control Panel low battery reports, select disabled (0).
-

Q-54 Select RF low battery reports to CS (0-1)

DEFAULT: Enabled (1)

Sensor low battery reports can be sent to the Central Station if a sensor battery tests low and sends a low battery transmission to the Control Panel.

- The default (1) allows sensor low battery reports.
 - To turn off sensor low battery reports, select disabled (0).
-

Q-55 Select opening reports to CS (0-1)

DEFAULT: Disabled (0)

Opening reports can be sent to the Central Station each time the system is disarmed. The user or Key Fob number is indicated in the opening report.

- The default (0) prevents opening reports.
 - To allow opening reports, select enabled (1).
-

Q-56 Select closing reports to CS (0-1)

DEFAULT: Disabled (0)

Closing reports can be sent to the Central Station each time the system is armed. The user or key fob number is indicated in the closing report. If Quick Arming is enabled, User #0 is indicated for the closing report.

- The default (0) prevents closing reports.
 - To allow closing reports, select enabled (1).
-

Q-57 Select alarm restore reports to CS (0-1)

DEFAULT: Disabled (0)

Alarm restore reports can be sent to the Central Station after an alarm when either the bell timeout

has been reached or the system is disarmed. If alarm restores are enabled and swinger shutdown is set to two, a restore will be reported if the sensor is closed (normal state) at bell cutoff or becomes closed after bell cutoff. If swinger shutdown is set to one, a restore will only be sent if the sensor is closed at the time of disarm. Restores are not sent if a sensor is in swinger shutdown until the time of disarm and the sensor is closed.

- The default (0) prevents alarm restore reports.
- To allow alarm restore reports, select enabled (1).

Q-58 Select trouble restore reports to CS (0-1)

DEFAULT: Enabled (1)

Trouble restore reports can be sent to the Central Station when any sensor trouble condition clears.

- The default (1) allows trouble restore reports.
- To turn off trouble restore reports, select disabled (0).

Q-59 Select bypass restores reports to CS (0-1)

DEFAULT: Disabled (0)

Bypass restore reports can be sent to the Central Station when any sensor that was force bypassed or manually bypassed gets restored.


- The default (0) prevents bypass restore reports.
- To allow bypass restore reports, select enabled (1).


Q-60 Select AC restore reports to CS (0-1)

DEFAULT: Enabled (1)

AC power restore reports can be sent to the Central Station when the Control Panel regains AC power after an AC power loss.

- The default (1) allows AC power restore reports.
- To turn off AC power restore reports, select disabled (0).

NOTE: The AC power will have to be restored to the Control Panel for one minute before the AC power loss trouble alert  automatically clears. If programming question Q-39 is enabled, the actual AC power restore report will occur at a

random time of up to four hours after the AC power loss trouble alert  has cleared.

NOTE: The Control Panel's AC power icon displays the power status. A red "X" over the icon indicates no AC power.

Q-61 Select system low battery restore reports to CS (0-1)

DEFAULT: Enabled (1)

Control Panel low battery restore reports can be sent to the Central Station if the Control Panel battery had tested low and is now Ok.

- The default (1) allows Control Panel low battery restore reports.
- To turn off Control Panel low battery restore reports, select disabled (0).

Q-62 Select RF low battery restores reports to CS (0-1)

DEFAULT: Enabled (1)

Sensor low battery restore reports can be sent to the Central Station if a sensor battery had tested low and is now Ok.

- The default (1) allows sensor low battery restore reports.
- To turn off sensor low battery restore reports, select disabled (0).

Q-63 Select phone fail detect (0-1)

DEFAULT: Disabled (0)

The system can monitor the telephone line connected to the Control Panel. If the telephone line is shorted or cut, the Control Panel will indicate telephone line trouble by sounding trouble beeps and displaying the no-phone icon.

If the optional cell radio modem is installed, the telephone line failure will still be reported if this question is enabled.

- The default (0) disables this feature.
- To turn on this feature, select enabled (1).

NOTE: If the dialer is disabled with programming question Q-8, telephone line failure detection is also disabled regardless of the setting of this programming question.

Q-64 Select smart test reports

DEFAULT: Disabled (0)

Smart test reports are a way to reduce Central Station traffic. If smart test reports are enabled and regular periodic test reports are enabled, any non-test report to the Central Station (alarm, restore, trouble, etc.) during the normal operation of the system will reset the periodic test report timer. Periodic test reports would only be sent if the Control Panel has not reported in any way to the Central Station.

- The default (0) prevents smart test reports.
 - To allow smart test reports, select enabled (1).
-

Q-65 Select RF jam causes trouble (0-1)

DEFAULT: Disabled (0)

The system can monitor the Control Panel's sensor receiver and detect whether a transmitter is stuck on the air causing jamming. When jam detect is enabled, the Control Panel will indicate a trouble condition if RF jamming is detected.

NOTE: This programming question only functions if trouble reports are enabled with programming question Q-50.

- The default (0) disables RF jam detection.
 - To turn on RF jam detection, select enabled (1).
-

Q-66 Select daylight saving (0-1)

DEFAULT: Enabled (1)

The Control Panel can adjust its displayed clock and internal clock for daylight saving time. If the cell radio is used, the time will be automatically adjusted regardless of this setting. The system default is set for post 2007 daylight saving changeover dates. These dates can be modified in case the daylight saving changeover date moves again.

- The default (1) enables daylight saving time adjustment.
- To turn off automatic daylight savings adjust, select disabled (0).

NOTE: If required, use programming questions Q-67, Q-68, Q-69, and Q-70 to modify the daylight saving start and stop dates.

Q-67 Select daylight saving start month (01-12)

DEFAULT: March (03)

- The default (03) sets March as the daylight saving start month.
 - To change the start month, enter the month, January - December (01-12), that the new daylight saving time will start.
-

Q-68 Select daylight saving start Sunday (1-7)

DEFAULT: 2nd Sunday (2)

- The default (2) sets the second Sunday as the daylight saving start week.
 - To change the start week, enter the 1st, 2nd, 3rd, 4th, last, second from last, third from last (1-7) as the daylight saving start week.
-

Q-69 Select daylight saving end month (01-12)

DEFAULT: November (11)

- The default (11) sets November as the daylight saving end month.
 - To change the end month, enter the month, January - December (01-12), that the custom daylight saving time will end.
-

Q-70 Select daylight saving end Sunday (1-7)

DEFAULT: 1st Sunday (1)

- The default (1) sets the first Sunday as the daylight saving end week.
 - To change the end week, enter the 1st, 2nd, 3rd, 4th, last, second from last, third from last (1-7) as the daylight saving end week.
-

Q-71 Select system tamper causes trouble (0-1)

DEFAULT: Enabled (1)

A tamper switch on the Control Panel detects if the case has been opened. The system can be programmed so that a tamper switch activation will cause a trouble indication if the system is disarmed, and an alarm if the system is armed.

- The default (1) allows the Control Panel tamper switch to trigger trouble when the system is disarmed, and alarm when the system is armed.

- To have the system ignore the Control Panel tamper switch, select disabled (0).

Q-72 Select quick bypass (0-1)

DEFAULT: Disabled (0)

Normally, sensors that are violated (open) at the time the system is armed will require the user to enter their code to force bypass them. The Control Panel can be programmed so that when the system is armed with open sensors, a code is not required to bypass the open sensor(s) and complete the arming.

- The default (0) requires entering a code to bypass sensors.
- To allow bypassing sensors without a code, select enabled (1).

Q-73 Select disarming keyfob after alarm (alert) (0-1)

DEFAULT: Disabled (0)

The system can produce a unique sound when it's disarmed with a key fob after an alarm has occurred. Four beeps will sound from the Control Panel's speaker, four chirps will sound from the external sounder (if installed). This feature serves as a safety alert to the user so they can enter the protected premises with caution.

- The default (0) will not cause a unique sound when disarming after an alarm.
- To cause unique sound when disarming after an alarm, select enabled (1).

Q-74 Select keyfob arm / disarm confirmation (0-1)

DEFAULT: Disabled (0)

The system can produce a unique sound when it's armed or disarmed with a key fob. The Control Panel's speaker will sound one beep when arming and two beeps when disarming. The external sounder (if installed) will sound one chirp when arming and two chirps when disarming (four beeps after an alarm if Q-73 is enabled). This feature indicates to the user that their key fob signal was received by the Control Panel in case other arm/disarm indications (armed LED, etc.) are not available or visible to the user.

- The default (0) will not cause a unique sound when controlled by a key fob.
- To cause a unique sound when controlled by a key fob, select enabled (1).

Q-75 Select auto un bypass for manual bypass (0-1)

DEFAULT: Enabled (1)

Violated (open) sensors can be manually bypassed by the user through the User Toolbox or force bypassed at the time of arming.

Force bypassed sensors automatically have their bypasses removed when the system is disarmed.

Manually bypassed sensors can have their bypass automatically removed at disarming or have their bypasses remain in place.

- The default (1) automatically removes bypasses from manually bypassed sensors when the system is disarmed.
- To have manually bypassed sensors remain bypassed when the system is disarmed, select disabled (0).

Q-76 Select force bypass reports (0-1)

DEFAULT: Disabled (0)

The system can report which sensors have been force bypassed by the user when the system is armed. Forced bypassed sensors are always recorded in the event log, regardless of the setting of this programming question.

- The default (0) prevents reporting forced bypassed sensors.
- To report forced bypassed sensors, select enabled (1).

Q-77 Select event log (0-3)

DEFAULT: All events (3)

To control the amount of event log entries, the events that get recorded into the system's event log can be selected by type. This setting filters the events that populate the event log.

- The default (3) records all events in the event log.
- For different event log filtering options, select (0), (1), or (2):

Event Log Filters

- (1) all events except open, closing, and bypass
- (2) all events except open closing
- (3) all events

Q-78 Select output (00-10) **DEFAULT: Follows internal sounder alarm (11) (Required SIA CP-01 Default)**

The system's open collector output is available on the Control Panel's terminal block to connect to an external device. The conditions that will cause the open collector output to activate are programmable.

- Select one activation option for the Control Panel's open collector output:

Open Collector Output Mode

- (01) activated when armed
- (02) activated when disarmed
- (03) activated on FTC (failure to communicate)
- (04) activated on siren supervision
- (05) activated on radio fault
- (06) activated on burglary alarm
- (07) activated on fire alarm
- (08) activated on any alarm
- (09) activated on any system trouble
- (10) Z-wave activation (Option #10 not currently active)
- (11) follows internal sounder alarm
- (12) follows exit/entry beeps

Q-79 Select Z-Wave feature (0-3) **DEFAULT: Disabled but visible (1)**

The Z-Wave home services feature can be enabled or disabled with various remote control access options.

- The default (1) displays the **Services** button, but will show a message that the feature is currently disabled and the user should call the installer.
- To hide the **Services** button, select disabled and hidden (0).
- To show the **Services** button and disable off-site remote control, select (2).
- To show the **Services** button, with Z-Wave rules disabled and off-site remote control enabled, select (3).

Q-80 Select Z-Wave switches feature (0-1)

DEFAULT: Disabled (0)

Display of the Home Service's **Switches** button can be enabled or disabled.

NOTE: This programming question only functions if the Z-Wave feature enable question Q-79 is set to (2) or (3).

- The default (0) hides the **Switches** button.
- To display the **Switches** button, select enabled (1).

Q-81 Select Z-Wave thermostats feature (0-1)

DEFAULT: Disabled (0)

Display of the Home Service's Thermostats button can be enabled or disabled.

This programming question only functions if the Z-Wave feature enable question Q-79 is set to (2) or (3).

- The default (0) hides the **Thermostats** button.
- To display the **Thermostats** button, select enabled (1).

Q-82 Select Z-Wave door locks feature (0-1)

DEFAULT: Disabled (0)

Display of the Home Service's **Doorlocks** button can be enabled or disabled. This programming question only functions if the Z-Wave feature enable question Q-79 is set to (2) or (3).

- The default (0) hides the **Doorlocks** button.
- To display the **Doorlocks** button, select enabled (1).

Q-83 Select temperature display units (0-1)

DEFAULT: Degrees Fahrenheit (0)

The Home Service's Z-Wave thermostat display screens can show the temperature in degrees Fahrenheit or degrees Celsius.

NOTE: This programming question only functions if the Z-Wave feature enable question Q-79 is set to (2) or (3) and the thermostat feature is enabled with Q-81.

- The default (0) displays temperature in degrees Fahrenheit.
- To display temperature in degrees Celsius, select (1).

Q-84 Select services require master code (0-1)

DEFAULT: Disabled (0)

The Services button can be configured to require the use of the Master User Code to access Services.

- The default (0) disables the requirement for the Master User Code to access the Services menu.
- To require the use of the Master User Code to access the Services menu, select enabled (1).

When enabled then the Master User Code is required to access the Services and the Z-wave device configurations. This keeps unauthorized users from being able to change Z-wave settings, such as temperature, lights and locks.

Q-85 Select master user access to z-wave toolbox (0-1)

DEFAULT: Disabled (0)

The Z-Wave Toolbox menu can be set to require the use of the Master User Code or the Installer Code. By default, the Installer Code is required for users to access the Z-Wave Toolbox.

- The default (0) requires the use of the Installer Code to access the Z-Wave Toolbox menu and all of its features, including the Advanced Toolbox.
- To require the use of the Master User Code or the Installer Code to access the Z-Wave Toolbox menu, select enabled (1).

NOTE: When enabled (1) the Installer code will still be required to access the Advanced Toolbox menu. This prevents end users from adding or removing Z-Wave devices.

Q-86 Select disable siren after two-way audio (0-1)

DEFAULT: Disabled (0)

This setting enhances system operation in personal emergency applications and also provides the dealer with the option of the siren sounding until the bell cut off or to the end of a two-way-voice session.

- The default (0) will cause the siren to resume after two-way audio (if the bell cut off timer has not expired).
- Enable (1) will cause the siren to shut off after a two-way audio session.

Q-87 Select keyfob/remote arming mode on system not ready (0-2)

DEFAULT: Auto bypass with zone participation on restore (0)

This setting controls how the system will react when there are open sensors and the system is armed remotely.

- The default (0) will automatically bypass all sensors that are open when the system is armed remotely. If a sensor restores while the system is armed, the sensor's bypass will be removed, and the sensor will be ready to trigger an alarm.
- To automatically bypass all sensors that are open when the system is armed remotely, and keep all bypasses in place during the arming cycle, even if a sensor restores, select auto-bypass (1).
- To prevent arming remotely when any sensor is open, select arm only when ready (2).

Q-88 Select siren mode (0-1)

DEFAULT: Sound for burglary and fire/CO (0)

This setting selects which alarm types will activate a Z-Wave siren linked to the system.

- The default (0) will cause a Z-Wave siren to sound during burglary and fire/CO alarms.
- To have a Z-Wave siren sound only during burglary alarms, select sound for burglary only (1).

Q-89 Select allow backlight always on (demo mode) (0-1)

NOTE: May cause ghost / image retention

DEFAULT: Disabled (0)

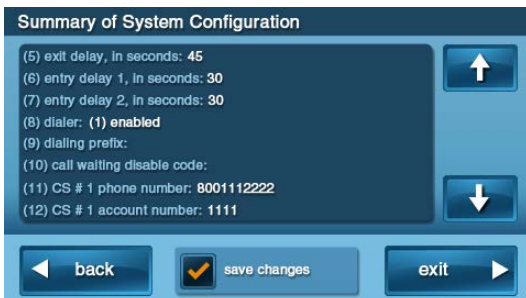
When enabled (1) allows the customer to program the "always on" option for backlight programming. Due to a small percentage of image "ghosting" on the panel (because the backlight never goes off), this question was been created but has been defaulted to (0) disabled.

FINAL INSTALLATION SETUP

EXITING PROGRAMMING (SYSTEM CONFIGURATION)

After programming the Control Panel, all the changes need to be saved in memory. After saving, the programmed settings will remain in memory, even after a total power loss.

- 1 After setting all the required programming values for the sensors and the Control Panel, press **End**.
- 2 Review the **Summary of System Configuration Screen**. Use the ↓ and ↑ arrows to scroll through the listing. Verify that each option is set correctly.



- 3 To save the programming changes, be sure the Save Changes option is checked. To exit without saving programming changes uncheck the **Save Changes** option (for verification, an additional confirmation screen appears). Press **Exit**.
- 4 The Control Panel takes a few seconds to restart and display the Home Screen.

Customizing the Installation

After programming the Control Panel, go to the User Toolbox and customize the system to suit the installation. To access the User Toolbox, do the following:

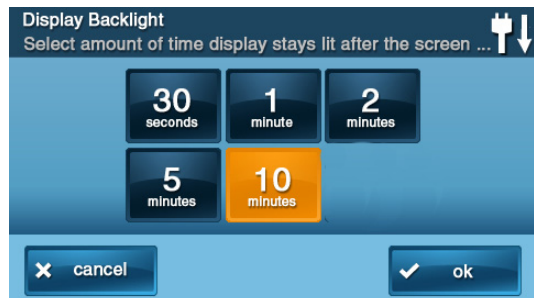
- 1 From the Home Screen, press **Security**.
- 2 From the Security Screen, press, **Menu**.
- 3 From the Menu Screen, Press **Toolbox**.
- 4 Enter the Master User Code (default = 1111).
- 5 Press **User Management**.
- 6 To add, change, or delete a User Code, press a User button. The system asks to confirm the

code entered. Be sure to set a Duress Code as User #8.



NOTE: User codes 0000, 0001, and the Installer Code are not permitted.

- 7 Setup each User Code with the User Access Option Screen. Each User Code can be set to be currently valid or not, or to have conditional validity. Refer to the *User Guide* for details on setting User Code Access Schedules. When done, press **Back**.
- 8 Press **Brightness/Volume**. Set the level for the display brightness. Set the chime & voice volume. When done, press **Ok**.




- 9 To view the 2nd Toolbox Screen, press →. To set the display lighting timeout, press **Back Light Timeout**. Choose the length of time that the display will remain lit *after it is idle*. When done, press **Ok**.

- 10 To set the calendar and the clock press **Set Date** and **Set Time**.



On the Set Date screen, use the ↓ and ↑ arrows to set the month, day, and year. On the Set Time screen, use the ↓ and ↑ arrows to set the hours, minutes, and AM/PM. When done, press **Ok**. A confirmation screen appears. Verify the time and date, then press **Ok** again.

- 11 If the cell radio module is installed and registered, the date and time is set automatically.
- To return to the Security Screen, press **Back** OR
 - To return to the Home Screen, press the  button.

INSTALLER TESTING

Testing the System

After the installation is complete and the Control Panel programming is complete, the system must be tested to ensure proper operation.

System testing is performed through the Installer Toolbox screen.

- 1 Press the lower right corner of the Home screen.
- 2 To access the Installer Toolbox, enter the Installer Code (default = 1561).

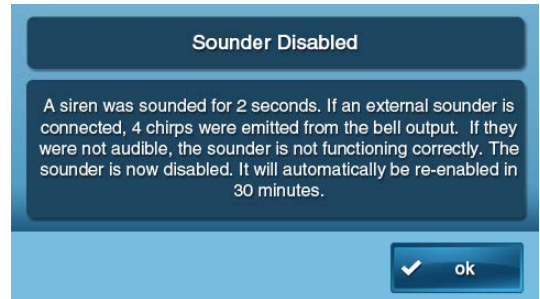
Sounder Disable/Enable

Because testing causes the Control Panel's internal and external alarm sounder to activate, an option to lower the sounder is available.

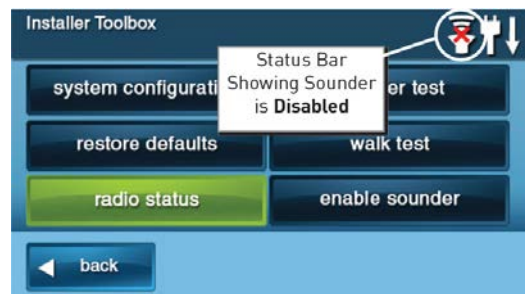
- 1 From the **Installer Toolbox Screen**, press **Disable Sounder**.
- 2 A confirmation screen appears. Press **Ok**. Four beeps will sound from the internal sounder,

and a short siren will sound from the external sounder. The external siren will be disabled and the internal sounder will be lowered for 30 minutes.

- 3 A second confirmation screen appears to verify that the test sounds occurred. Press **Ok**.



- 4 While the sounder is disabled, the Sounder Disable Icon appears on the status bar.



- 5 The Sounder Disable automatically times out after 30 minutes, and the sounder automatically becomes active again.

To re-enable the sounder manually, follow these steps:

- 1 From the **Installer Toolbox Screen**, press **Enable Sounder**.
- 2 A confirmation screen appears. Press **Ok**.

Zone Reporting Test

To verify that the Central Station correctly receives reports from each zone (sensor type), do the following tests:

- 1 Inform the Central Station that test signals will be sent.
- 2 Trigger a 24-hour fire sensor (if installed) or press the **Fire** emergency button (if enabled), wait about 45 seconds for the report to complete, then disarm the Console.

- 3 Trigger a 24-hour panic sensor (if installed) or press the **Panic** emergency button (if enabled), wait about 45 seconds for the report to complete, then disarm the Console.
- 4 Trigger a 24-hour emergency sensor (if installed) or press the **Emergency** emergency button (if enabled), wait about 45 seconds for the report to complete, then disarm the Console.
- 5 Arm the system then trigger a burglary sensor, and wait for the system to go into alarm, wait about 45 seconds for the report to complete then disarm the Console.
- 6 Check with the Central Station that each zone (sensor type) was reported, then inform the Central Station that the testing is complete.

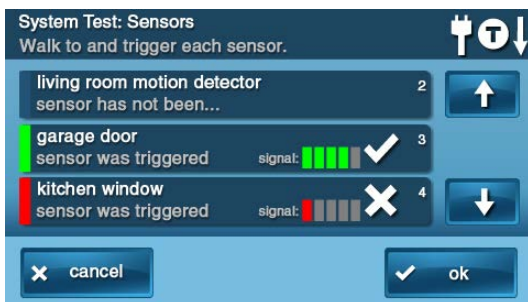
WALK TEST MODE

Walk Test Mode is for testing all the sensors. It verifies that each sensor is being received correctly by the Control Panel. The walk test also tests the Control Panel’s indicators and sounder.

NOTE: The Walk Test Mode will automatically end after 25 minutes.

Signal Strength Indicators

An important feature is the received signal strength indicators displayed by the Control Panel for each of the sensors. Even though the Control Panel’s RF receiver is high-sensitivity, reception quality of sensors at the Control Panel can vary over time, depending on the amount of background RF noise on the receiver’s operating frequency. The signal strength indicators are an important aid to the installer for determining the best location to mount the sensors and Control Panel.



During the walk test, the Control Panel displays the signal strength of the RF transmissions received from each of the sensors. This helps to identify any sensors with a weak signal at the Control Panel.

- Re-mount sensors with low signal strength to a location that produces stronger reception at the Control Panel. The higher the sensor signal strength, the better.

During the test, the system will beep every 30 seconds to indicate that the system is in Walk Test Mode. During the last 5 minutes of the test, the system will beep two times every 30 seconds.

NOTE: Entering the Walk Test Mode sends a “start test” report to the Central Station. Exiting the Walk Test Mode sends a “stop test” report to the Central Station.

To perform a walk test, do the following:

- 1 From the Installer Toolbox screen, press **Walk Test**.
- 2 The **T** icon displays on the Control Panel Status Bar and a beep will sound every 30 seconds to indicate that the system is in Walk Test Mode.
- 3 Each of the sensors and their status are shown on the on the sensor test screen. Use the ↓ and ↑ arrows to scroll through the sensor list.
- 4 Activate the first sensor listed and view the result on the display:
 - When a sensor is received by the Control Panel, three beeps occur and the display lights a green bar to the left of the sensor’s name.
 - The received signal strength of the sensor displays as one to five green bars. The more bars, the higher the signal strength.
 - If the signal level is sufficient, a check mark displays for that sensor.
 - If the signal level is insufficient or the signal test fails, the display lights a red bar, and an “x” displays for that sensor.



- **For sensors with multiple loops, wait 15 seconds between triggering each loop.**
- 5 Continue testing with each of the other sensors listed.

After all the sensors have been tested, press **OK** to test the Control Panel’s indicators and sounder.

- Press each test item displayed, observe the Control Panel item being tested, and answer the **yes/no** question for the test.
- When all sensors and devices have been tested, press **Ok**. The Control Panel displays a summary of the test results. To return to the Installer Toolbox, press **Ok**.



RADIO STATUS MODE

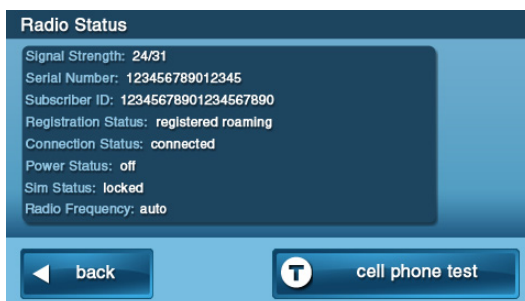
The Cell Radio Module must be installed to use this function.

The Cell Radio Status screen displays data for the Cell radio (if installed). The screen displays signal strength, serial number, registration status, and other information about the cell radio module status. The information may be helpful for radio installation troubleshooting.

Cell Radio Test

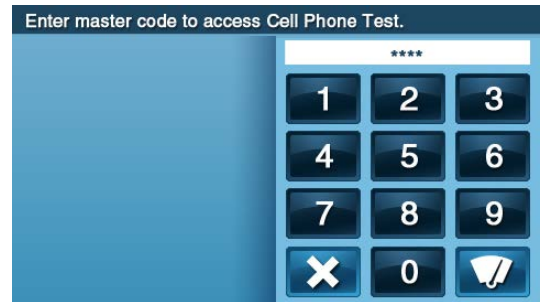
To check the radio status, do the following:

- From the **Installer Toolbox** screen, press the **Radio Status** button.

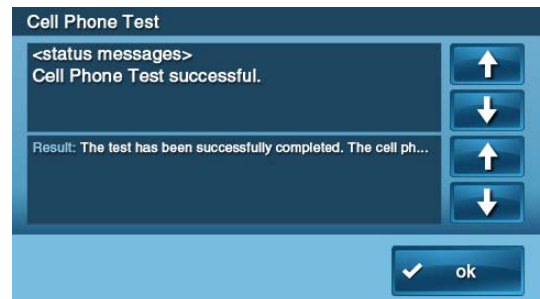


- Press the **Cell Phone Test** button.

- Enter the Master User Code.



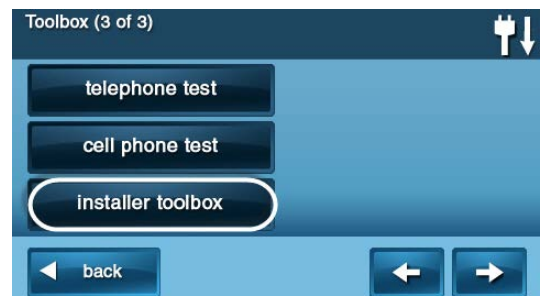
- The **Cell Phone Test Screen** appears. Each test item is displayed, followed with its current condition. Scroll through the info screen with the ↓ and ↑ arrows.
 - Text is displayed in red if the tested signal strength is zero or too low, or the cell radio module is not registered.
 - Text is displayed in orange if the connection is idle and the cell radio module is registered.
 - Text is displayed in green if the signal strength is good and the cell radio module is registered.
- When the test is complete, press **Ok** to return to the Toolbox.



Telephone Test

The telephone test checks the land-line connection to the Central Station through the Control Panel's built-in digital communicator. The test is accessed through the User Toolbox screen #3.

- On toolbox screen #3, press the **Telephone Test** button.



- 2 Enter the Master User Code to proceed with the test.
- 3 The Telephone Test screen appears. The top portion of the screen shows the actions that the Control Panel is taking. The bottom portion of the screen shows the results of the actions. Scroll through the status screen with the ↓ and ↑ arrows.
- 4 When the test is complete, press **Ok** to return to the Toolbox.

RESTORING PROGRAMMING DEFAULTS

To soft reset the Control Panel back to the factory defaults, use the Restore Default option in the Installer toolbox.

NOTE: The Control Panel may also be “hard” reset to out-of-the-box factory defaults by pressing and holding the emergency and home buttons while applying power (if not disabled through programming questions Q-44 & Q-45).

Restore Defaults

The Restore Defaults screen provides a method to selectively reset the Control Panel to its default programming values instead of using a full *hard* reset. Two check box options are available (one or both must be checked):



- If the Zones box is checked, all data for the 48 sensors will be erased and replaced with the default values.
- If the Console box is checked, all the Control Panel programming questions (except Z-Wave questions Q79-Q83) will be erased and replaced with the default values:
 - The User Codes will be erased
 - The backlight timeout will be reset to five minutes
 - Brightness/Volume settings will be reset

REGULATORY INFORMATION

WIRELESS PRODUCT NOTICE

Radio controls provide a reliable communications link and fill an important need in portable wireless signaling; however, there are some limitations which must be observed.

- For U.S. installations only: The radios are required to comply with FCC Rules and Regulations as Part 15 devices. As such, they have limited transmitter power and therefore limited range.
- A receiver cannot respond to more than one transmitted signal at a time and may be blocked by radio signals that occur on or near their operating frequencies, regardless of code settings.
- Changes or modifications to the device may void FCC compliance.
- Infrequently used radio links should be tested regularly to protect against undetected interference or fault.
- A general knowledge of radio and its vagaries should be gained prior to acting as a wholesale distributor or dealer, and these facts should be communicated to the end users.

FCC NOTICE

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Relocate the Console away from the TV/radio receiver.

- Plug the Console into a different wall outlet so that the Console is on a different branch circuit.
- Re-orient the TV/radio antenna.
- If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions.

FCC Telephone Rules and Regulations

The FCC requires that this alarm dialer system not make more than 15 repetitive dialing attempts to a single telephone number. There are no limitations when the calls are made sequentially to two or more alternative numbers, or when these calls are spaced 10 minutes apart to a single number. The FCC Rules and Regulations do not specify the re-attempt period as this can vary for specific applications. When setting this period, take into consideration local, interstate, foreign and special network call completion characteristics, network processing time, a sufficient number of rings and busy/don't answer modes.

Industry Canada Notices

NOTICE: The ringer equivalence number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the ringer equivalence numbers of all the devices does not exceed 5.

NOTICE: The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements. The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

CAUTION: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

Commercial Regulatory Listings

IMPORTANT: If this installation is a commercial installation, please inform the customer (or end user) that *commercial* Control Panels are for use only as burglar alarm systems (and not for fire protection) under UL 1610.

All conductors and attachments are manufactured in accordance with the Standard for Installation and Classification of Burglar and Holdup Alarm Systems (UL 681). Commercial users must provide for the connection of protective wiring, conductors and attachments.

The Control Panel contains hard wiring that is protected and not exposed. All conductors and attachments are manufactured in accordance with the Standard for Installation and Classification of Burglar and Holdup Alarm Systems (UL 681).

Stranded conductors clamped under wire-binding screws or similar parts shall have the individual strands soldered together or arranged in a construction that has been determined to be the equivalent.

IMPORTANT: A local alarm sounding device, alarm housing, and control unit shall comply with the mercantile requirements in the Standard for Police Station Connected Burglar Alarm Units and Systems, UL 365.

Operating and Storage Temperature

The recommended storage temperature for all Control Panels is -10°C to 60°C (14°F to 140°F).

For optimal Control Panel use, operation temperature is 0°C to 49°C (32°F to 120°F).

NOTE: No altitude range limitations have been reported while transporting Control Panels.

LIMITED WARRANTY

This 2GIG Technologies Inc. product is warranted against defects in material and workmanship for 1 year. This warranty extends only to wholesale customers who buy through 2GIG Technologies Inc. authorized distribution channels.

2GIG Technologies Inc. does not warrant this product to consumers. Consumers should inquire from their selling dealer as to the nature of the dealer's warranty, if any. There are no obligations or liabilities on the part of 2GIG Technologies Inc. for consequential damages arising out of or in connection with use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation, or reinstallation. All implied warranties, including implied warranties for merchantability and implied warranties for fitness, are valid only until the warranty expires. This 2GIG Technologies Inc. Warranty is in lieu of all other warranties express or implied.

For technical support in the USA and Canada:

855-2GIG-TECH (855-244-4832)

Email: techsupport@2gig.com

Internet: dealer.2gig.com

Visit web site for technical support hours of operation

For technical support outside of the USA and Canada:

Contact your regional distributor

Visit dealer.2gig.com for a list of distributors in your region



tech support
855.2GIG.TECH

YOUR LOCAL ALARM INSTALLATION AND SERVICE PROFESSIONAL:

