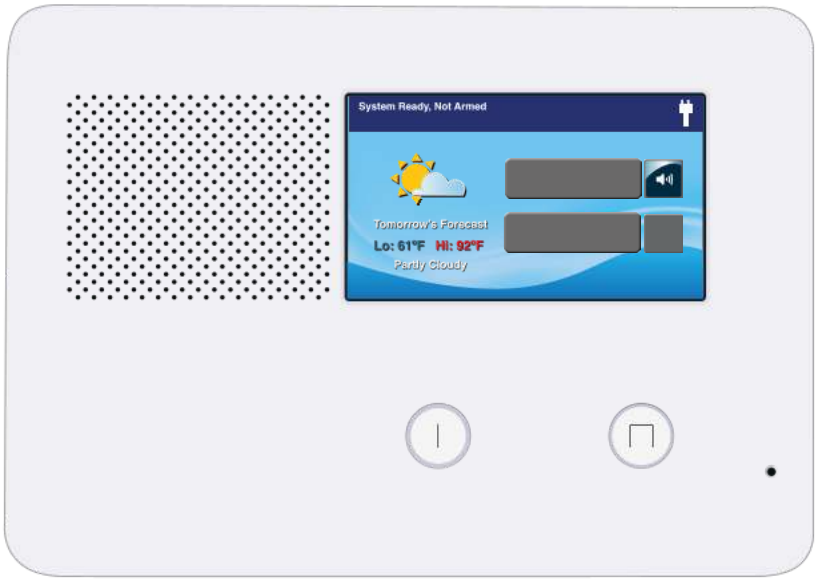
2GIG®

eSeries™

GC2e Panel Installation and Programming Guide



WIRELESS SECURITY SYSTEM

PROTECTED BY CALLAWAY SECURITY

CALLAWAY SECURITY

Security Solutions from Local Professionals

CONTENTS

Introduction

About this Guide

This guide provides distributors, dealers, and authorized installation personnel with information about installing, testing, and maintaining the 2GIG Go!Control system . 2GIGproducts are not sold directly to consumers and can only be obtained from authorized distribution channels. For a list of authorized distributors, visit: http://www.nortekcontrol.com

About the 2GIG Go!Control System

Depending on the options set during the installation, the 2GIG Go!Control system has the ability to provide three forms of protection: burglary, fire, and emergency, The system consists of the 2GIG Control Panel, wireless sensors for perimeter and interior burglary protection, and wireless smoke and carbon monoxide detectors. In addition, optional remote control key fobs, wireless panic buttons, and keypads may also be installed.

The system monitors all protection sensor types (a.k.a., “zones”) and the system’s status. The Control Panel displays monitoring information and controls the alarm siren. The system can also be setup to send alarm and status reports to a Central Station and has the capability for two (2)-way voice communications with the Remote Service Provider (RSP).

When a security system is installed, insurers may offer discounts on the homeowners’ or renters’ insurance policy. Although the requirements and discount credits vary for each different insurer, users can generally save money as the level of protection increases. It is recommended that you inform the end user to check with their insurance agent to determine if the insurer has specific requirements and/or offers any discount(s).

Important Information

The 2GIG Go!Control security system conforms to the Security Industry Alarm Coalition’s *ANSI/SIA CP-01: Control Panel Standard-Features for False Alarm Reduction*. It also meets the residential security system certification criteria for the ETL Listed Mark .

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). No altitude range limitations have been reported while transporting Control Panel.

Installing the System in Residential Settings

When installing the system in a residential setting, be aware of the following:

- **Fire warning systems must be installed in accordance with national codes.** In the United States, fire warning systems must be installed in accordance with *ANSI/NFPA 72 National Fire Alarm and Signaling Code and ANSI/NFPA 70 National Electric Code* .
- **A permit may be required for this alarm system**. Some cities and municipalities may require an alarm system permit. Before installing this system, always ensure that you are in compliance with any national, regional, and local laws, rules, and/or guidelines .
- **This system is intended for use with approved-model smoke alarms only** . For use as a smoke alarm system, there must be at least one (1) smoke alarm programmed into the Control Panel and must use only approved model smoke alarms . Visit the 2GIG Dealer Web Site at dealer .2gig .com .
- **Failure to follow ETL requirements voids this system’s ETL Listed mark** . Failure to install the Control Panel and accessories in accordance with the ETL requirements documented in this manual voids its ETL Listed Mark.

Installing the System in Commercial Settings

When installing the system in a commercial setting, be aware of the following:

- **The system cannot be used for fire protection in commercial settings**. In a commercial setting, it is important to know that the Control Panel is neither designed nor intended for use as a fire protection system.
- **The system is intended only for security protection of premises**. In a commercial setting, this system is only intended for protection of commercial premises, such as a mercantile or office. It is neither designed nor intended to protect commercial bank vaults . **A permit may be required for this alarm**. Some cities and municipalities may require an alarm
- system permit. Before installing this system, always ensure that you are in compliance with any national, regional, and local laws, rules, and/or guidelines .

System Features

The 2GIG Go!Control system offers security protection for your property, 24-hour emergency monitoring, and can optionally be used for fire detection in the home. Features include:

- **Full Voice Response**. The panel gives clear notifications that indicate system status, zone descriptions, alarms, and emergencies .
- **Date, Time, and Weather Display.*** Scroll through the date, time, and daily weather forecast. Provides the ability to receive messages, including severe weather warnings .
- **Quick Access**. The one touch access buttons allow the quickest help possible in an emergency. The front panel y and buttons serve as controls as well as indicators. Pressing theamm button displays and can be enabled or disabled). for Panic, Fire, and Emergency alarm activation (each has progr
Pressing the button changes the system display to the Home screen.
- Full Color Touch Screen. Control all system functions with an easy-to-use color touch screen puts a wide range of security and home automation controls at your fingertips.
- Multiple Arming Options. Secure your home by arming your system “AWAY” or “STAY”. The Quick Arm/Exit and Bypass features offer added convenience.
- Home Automation Radio Module. The built in Z-Wave radio enables various home automation functions including HVAC, appliances, lighting, and lock control.
- Two (2)-way Response Over Cellular.* Two-way voice lets central station operators listen in and talk to you when a signal is received, ensuring that the proper emergency response personnel will be dispatched if necessary .
- Fully Self-Contained. The fully self-contained panel contains a backup battery, and allows 60 user codes and monitors up to 60 wireless zones including eight (8) key fobs and four (4) keypads. It also provides two (2) hardwired loops, 15 sensor types, a supervised bell output, and a programmable solid-state control output.
- Over-The-Air (OTA) Updates.* There’s no need to worry about the panel’s software becoming outdated. With the OTA function, the panel can be remotely updated with the latest software.
- Remote Control Options.* Always be in control by remotely managing your system from a computer or web enabled mobile phone (iPhone, Android, etc,) .

* Feature requires the optional LTE (Cellular) Radio module and an active account with an Remote Service Provider.

Optional Accessories

Optional modules, keypads, radios, and sensors that can be purchased to enhance the system include:

- **2GIG LTE (Cellular) Radio Module**. An on-board digital communicator reports alarms and trouble to a Central Station receiver and a two (2)-way voice communication with the Central Station. It also supports OTA updates and remote control of the system using a Web-enabled device through the Internet. **2GIG 900 MHz Transceiver**
- **Module** . 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. Note that the 2GIG 900 MHz Transceiver Module, touch screen keypad, and image sensor are only available in some regions .
- **2GIG Wireless Touch Screen Keypad**. A wall-mounted, full-color, touch screen interface that provides many of the same easy-to-use keypad functions available on the Control Panel. It is designed for indoor use only and gives users the ability to control lights, thermostats, and door locks, as well as to view the status of every sensor zone . When the 2GIG 900 MHz Transceiver Module is installed in the Control Panel, the system can be programmed to communicate with up to four (4) Wireless Touch Screen Keypads . **2GIG Go!Bridge IP Communicator**. The
- Go!Bridge provides Internet connectivity between the monitoring service's Central Station and the Go!Control® Panel (requires the 2GIG 900 MHz Transceiver Module and supports automatic firmware updates, provides interactive security services, and increases supervision using signal-forwarding to the Central Station.
- **2GIG Super Switch Takeover Module** . The takeover module communicates with the 2GIG Control Panel and is designed to convert up to eight (8) pre-wired zones to supervised wireless zones.
- **2GIG Hardwire Conversion Kit**. This kit provides installers with an easy way to convert the zones of a pre-wired security alarm system to 2GIG wireless zones . The kit includes one (1) Super Switch Takeover Module (Wireless Takeover of an Alarm System, US Patent No. 8,638,218). You can also install two (2) additional modules, which provides installers with the capability to convert up to 24 pre-wired security zones to wireless zones.

2GIG GC2e Security Panel XCVR Compatibility

The GC2e panel with the factory-installed XCVR2a is compatible with the new eSeries encrypted sensors and legacy non-encrypted 345 sensors. This receiver is not compatible with the TS1 or Image Sensor 1 or 3 accessories.

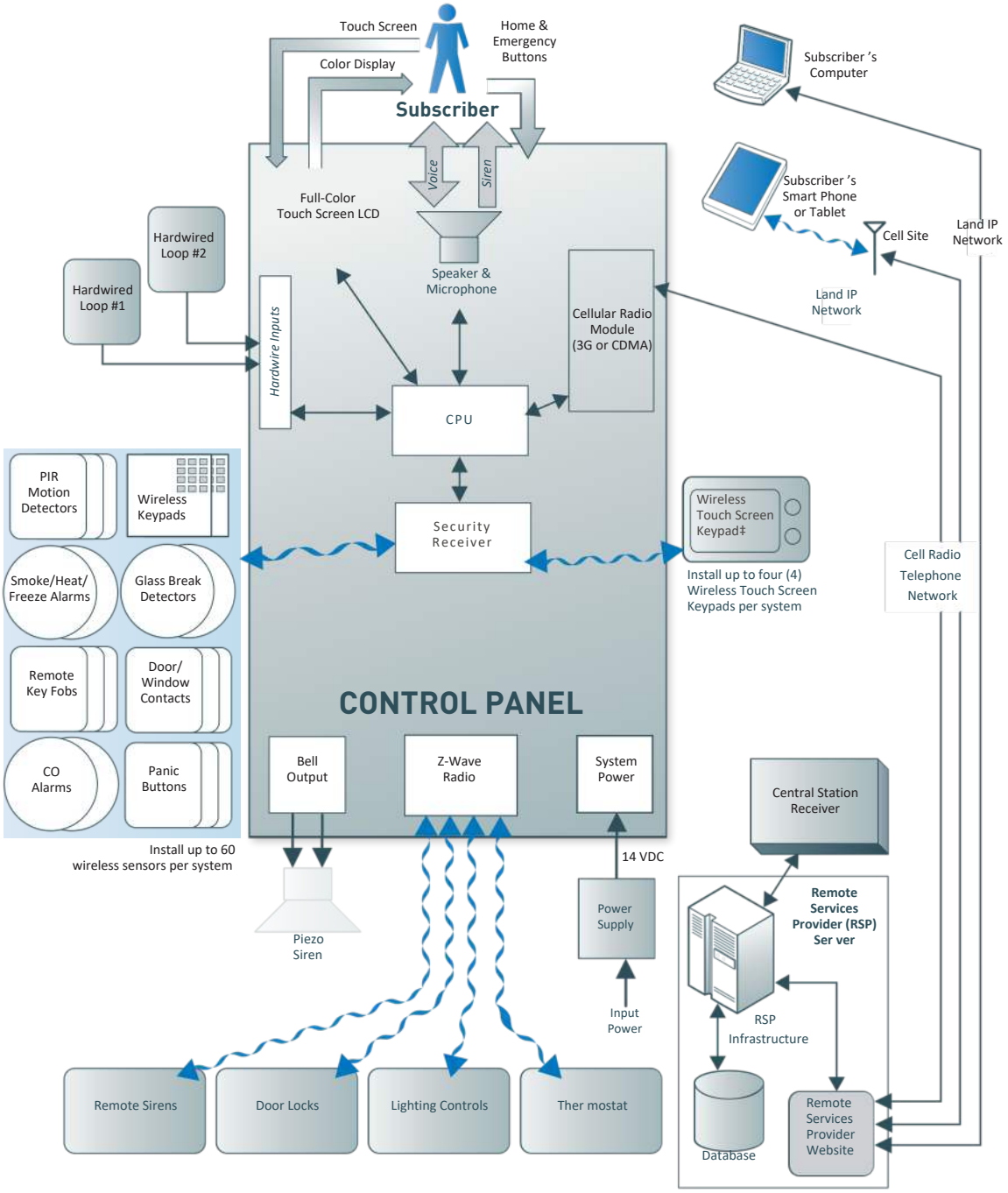
The TS1 and Image Sensor 1 can be used with the GC2e by replacing the XCVR2a with a 2GIG-XCVR2e-345, which is compatible with the TS1 keypad, the Image Sensor 1 and eSeries sensors and legacy security sensors.

The Image Sensor 3 can be used with the GC2e by replacing the XCVR2a with a 2GIG-XCVR5e-345, which is compatible with Image Sensor 3, eSeries sensors and legacy security sensors. (2GIG-XCVR5e-345 is not compatible with TS1 keypads .)

System Configuration

This illustration details the entire system configuration (including optional features). See *"Optional Accessories"* on page 6 .

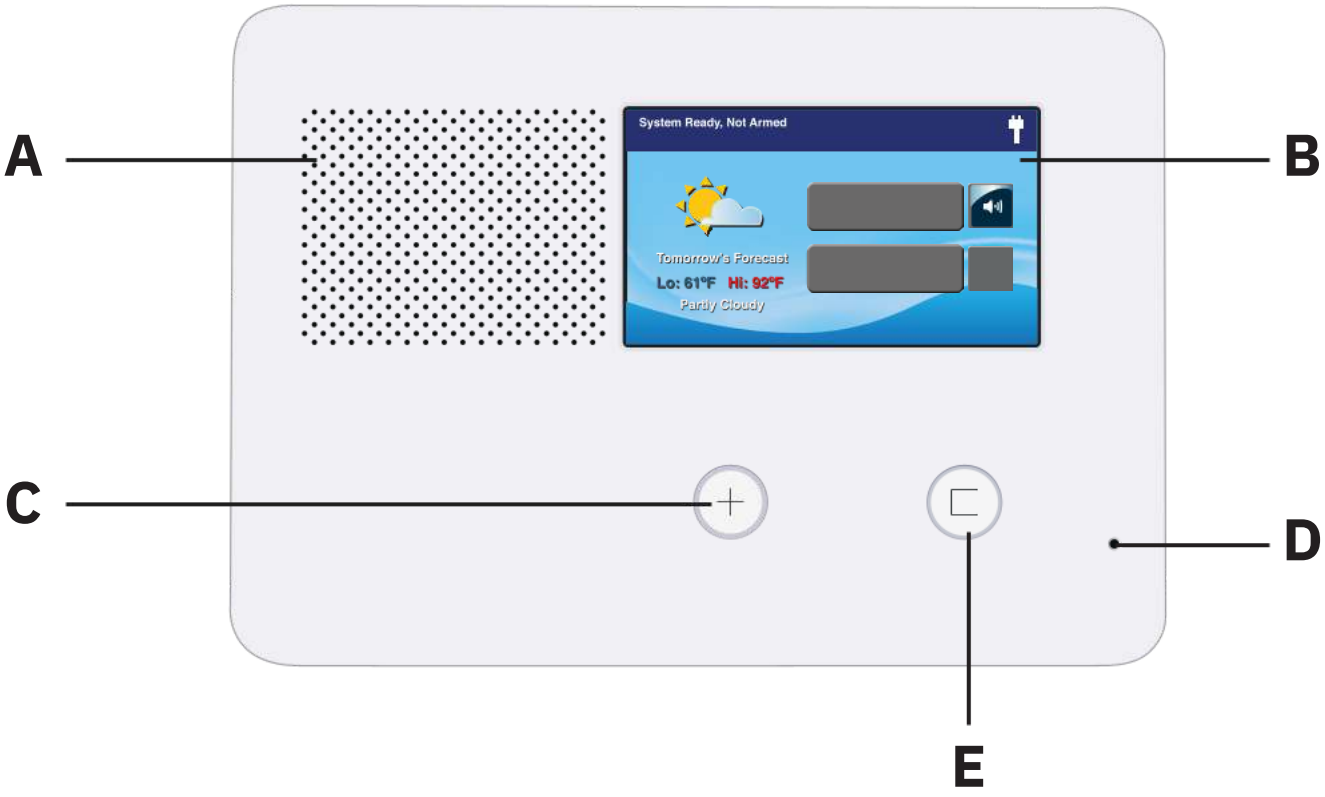
Figure 1 Complete System Configuration



Control Panel Features

External Features

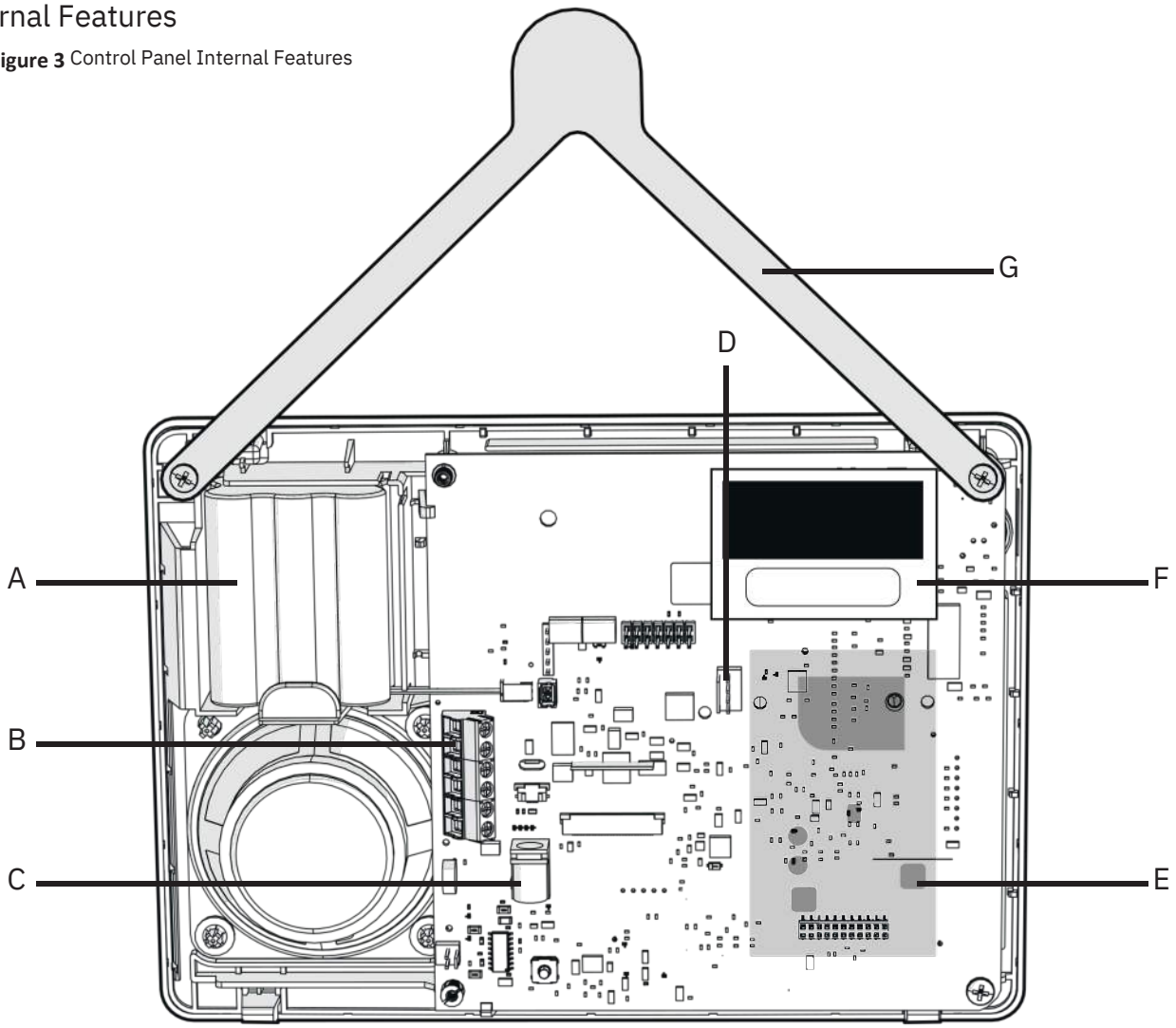
Figure 2 Control Panel External Features



A	**Alarm Sounder and Speaker**	Sounds all system local alarms, voice prompts, system sounds, and audio for two (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 your service provider account (tap manually to change)
C	**Emergency Button/Indicator**	Lights WHITE when enabled for emergency alarms and flashes during emergency alarms
D	**Microphone**	For voice communication with the Central Station
E	**Home Button/Indicator**	**Sensor Status** Lights BLUE when all sensors are closed (ready to arm) Not lit when any sensor is open (not ready to arm) **Arming Status** Lights RED when system is armed Flashes RED during the Entry Delay **Alarm Memory** Flashes RED during an alarm Flashes RED after an alarm while system is still armed **Power Outage** Flashes WHITE during power outage (system on battery backup) Flashes BLUE 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

Internal Features

Figure 3 Control Panel Internal Features



A	**Backup Battery Pack**	The standard backup battery that is included with all 2GIG Control Panels does not support UL 985 installations To comply with the secondary supply requirement in UL 985 Household Fire Warning System Units, you must install the 2GIG Console Battery Pack (2GIG-BATT2X).
B	**Terminal Block**	Connections for power, solid state output bell, and hardwire loops.
C	**Alternate Power Supply**	Alternate connection for power. (Plug-in barrel connector)
D	**J4 Pin Connector**	Connector for the Firmware Update Cable used to update the firmware version on the Control Panel.
E	**Cell Radio Module**	2GIG Go!Control Module for over-the-air communication with the Central Station.
F	**Main Receiver Module**	Receiver for peripheral device transmissions (or an optional 2GIG 900 MHz Transceiver Module for use with the Wireless Touch Screen Keypad).
G	**Third-Hand Hanger Strap**	Hooks onto mounting plate during installation to hold the Control Panel while wiring.

Installation Outline

Use the following outline in conjunction with this *Installation and Programming Guide* to guide you through the installation steps.

1. 2. 3. Unpack the system and identify the system components.

   Create an Installation Floor Plan to determine the best centralized location for the Control Panel.

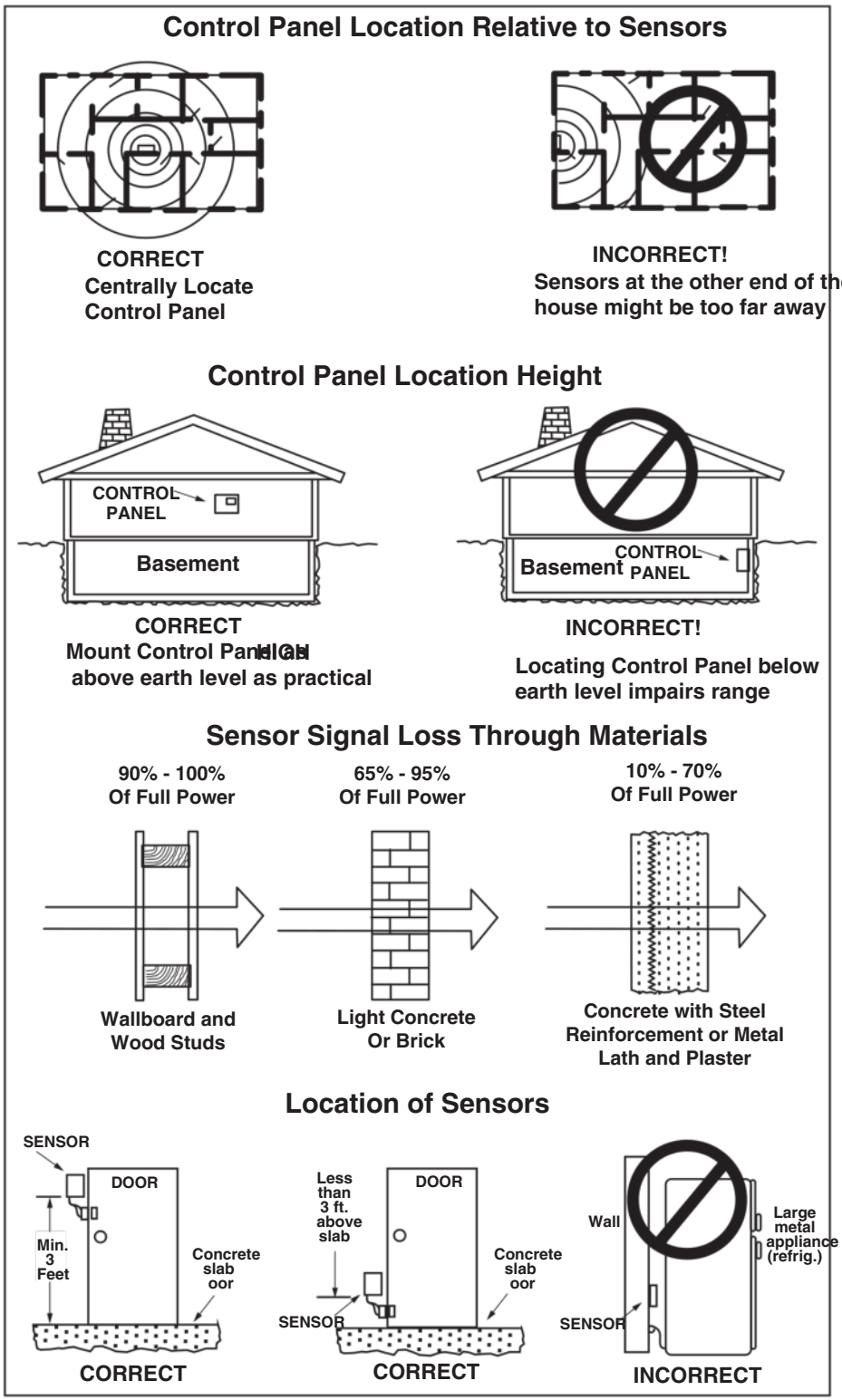
   Decide where to best install the wired and/or wireless sensors. Guidelines are available in the Installation Instructions included with each sensor .

4. Identify an unswitched wall outlet to use for the Control Panel's power supply.
5. (Optional) Install the LTE (Cellular) Radio Module in the Control Panel. See "LTE (Cellular) Radio Module" on page 15 .
6. Use the Control Panel's backplate to mark the drywall cutouts for the Control Panel. Then make the cutouts and attach the backplate to the wall . See "Control Panel Mounting Plate" on page 13 .
7. Install each of the system's wireless sensors . If the hardware zone is used, install the contacts and route the loop wire to the Control Panel's wall cutout .
8. Install the optional hardwired sounder, and route the connection wire to the Control Panel's wall cutout.
9. Use the third-hand hanger strap to hang the Control Panel on the mounting plate. Then connect all wiring to the Control Panel's terminal block . See "Control Panel Wiring" on page 17 and "Terminal Block Wiring Diagram" on page 17 .
10. Plug the backup battery connector into the connector on the circuit board.
11. 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.
12. Plug the power supply into the unswitched wall outlet .
13. Program the system as described in this manual and document any custom setup options for the end user in the space provided in the User Guide .
14. Test the system as described "Installer Testing" on page 61 .
15. Educate the end user(s) about basic system operations and provide them with the Control Panel's User Guide.

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 does contain a sensitive receiver that typically allows for placement of transmitters in nearly all locations. To determine the best possible placement for wireless sensors, review the following illustration.

Figure 4 Wireless Installation Tips



Sensors and Accessories

Wireless System Sensors

- Thin Door/Window Contact
- Recessed Door Contact
- Passive Infrared (PIR) Motion Detector
- Four (4)-Button Keyfob Remote
- Panic Button Remote
- Glass Break Detector
- Wireless Smoke/Heat Alarm
- Wireless Touch Screen Keypad
- Wireless Keypad
- Super Switch Takeover Module (Wireless Takeover of an Alarm System, US Patent No . 8,638,218)

Wireless System eSensors

- eSeries Smoke Detector (USA)
- eSeries Tilt Sensor
- eSeries Flood Sensor
- eSeries Repeater
- eSeries FireFighter SMKT/CO Listener
- eSeries Water Sensor
- eSeries CO Detector (USA)
- eSeries Thin Door/Window Contact
- eSeries Recessed Door Contact
- eSeries Glass Break Detector
- eSeries Outdoor Door/Window Sensor
- eSeries Key FOB
- eSeries Panic
- eSeries PIR with Pet Immunity
- eSeries Takeover Module

System Accessories

- LTE (Cellular) Radio Module
- Internal Antenna
- External In-Wall Antenna
- External Attic Mount Antenna
- Standard Battery Pack (UL 1023)
- Extended Battery Pack (UL 985)
- Replacement Power Supply
- Go!Bridge™ IP Communicator
- Hardwire Conversion Kit

Installation

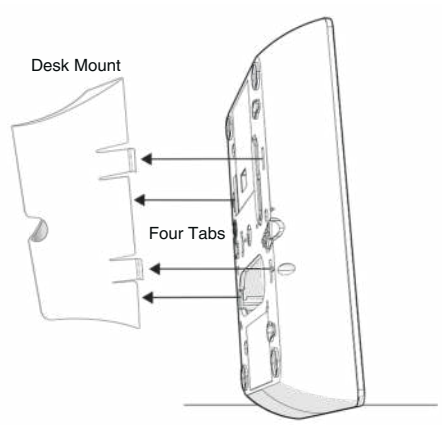
Control Panel Mounting Plate

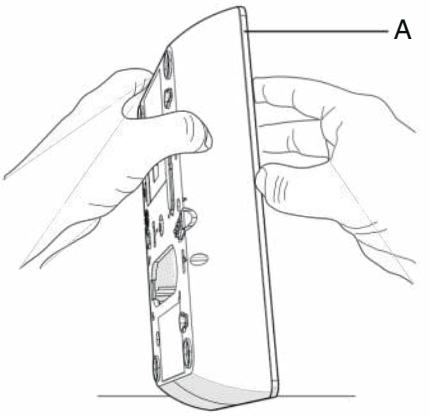
Mount the Control Panel on the wall in a convenient location (or use the optional desk mount). These tools may be required to mount the Control Panel onto the wall:

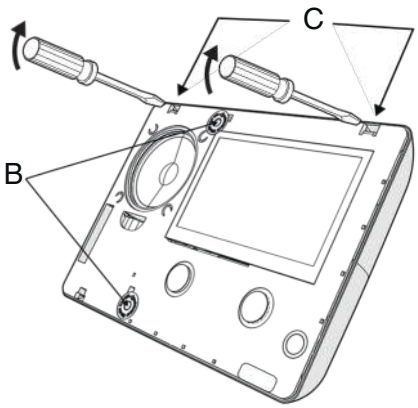
- Screwdriver
- Wire Stripper
- Staple Gun
- Drywall Saw (or equivalent)
- Ladder

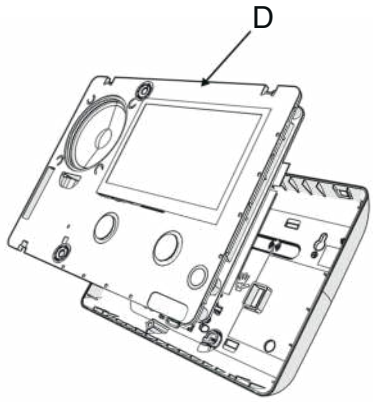
1. To remove the optional desk mount, press the inward on the tabs connecting the base and panel .
2. Hold firmly, then use your fingernail to detach and remove the panel faceplate (A).
3. Unlock the two captive screws (B) and two latches (C) with a small flathead screwdriver to separate the panel (D) from the bottom mounting plate.
4. Depress the two tabs and pull apart to unlock the unit from the mounting plate.
5. Use the level on the mounting plate, then mark the wall for the wiring cutout slot. Use a drywall saw to cut the slot .
6. If using the optional LTE (Cellular) Radio Module with an external antenna, remove the plastic knockout labeled "((•))" on the mounting plate (E). Mark and cut a slot in the drywall for the external antenna .
7. Attach the mounting plate to the wall using four (4) screws.
8. Remove the two top screws from the Panel, then replace the screws attaching the Hanger (G).
9. Hang the panel from the mounting plate.

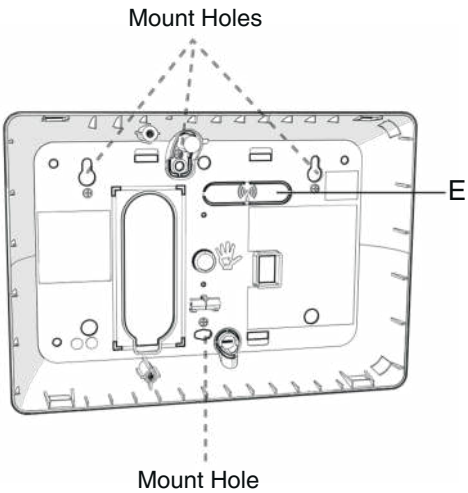
Figure 5 Control Panel Mounting Procedure

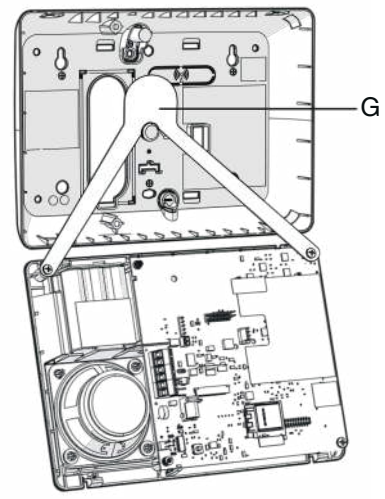












A	Remove Face Plates
B	Unlock Locking Screws
C	Unlatch Latches
D	Remove from Mounting Plate
E	If using external antenna, remove knockout plate. Use mounting plate as a template to mark wire cutout hole in dry wall (four screws).
G	Hanger

Wireless Sensors

Install wireless sensors in the appropriate location using the *Installation Instructions* included with each wireless sensor as a guide .

Hardwired Loop

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 .

NOTE: The Control Panel does not support powering external devices (PIR's, etc .) .

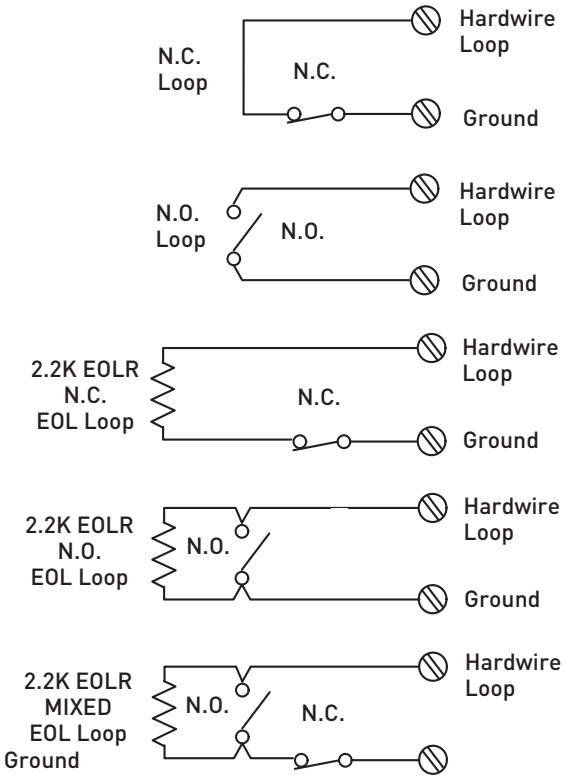
NOTE: Hardwired loops cannot be used for a CO or Fire sensor loop .

1. If either of the two (2) hardwired loops are going to be used, install the contacts and then route the loop wire to the Control Panel's wall cutout .
2. If end-of-line supervision is required for the loop, install a 2.2kΩ resistor (not supplied) as shown in *Figure 6 Hardwired Loop Wiring* .

Wiring

Hardwired loops need to be programmed for contact type .

Figure 6 Hardwired Loop Wiring

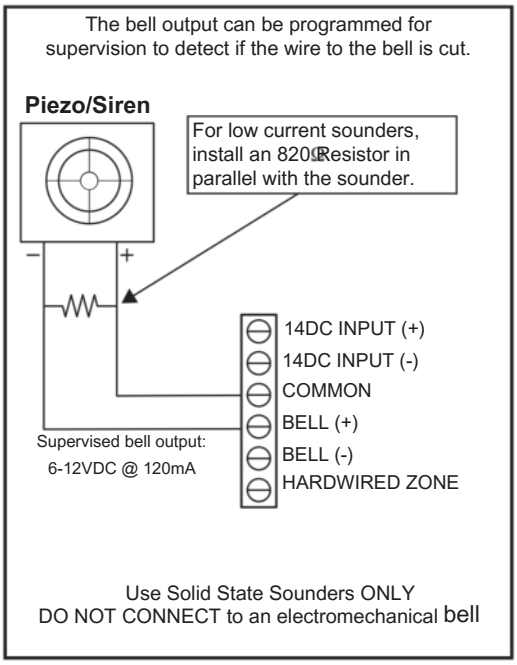


WARNING: Stranded conductors clamped under wire-binding screws or similar parts shall have the individual strands soldered together or arranged in a construction that has been determined to be the equivalent.

Remote Alarm Sounder

The Control Panel provides two (2) terminals for an optional connection to a remote electronic alarm sounder.

Figure 7 Remote Alarm Sounder



WARNING: To avoid damage to the output, do NOT connect an electromechanical bell to these terminals .

The bell terminals can be supervised . If *Q21: Siren Supervision Time* is set to *(1) Enabled*, and the wire between the Control Panel and sounder is cut, the Control Panel displays a trouble alert message for siren supervision and sends a bell trouble report to the Central Station.

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

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

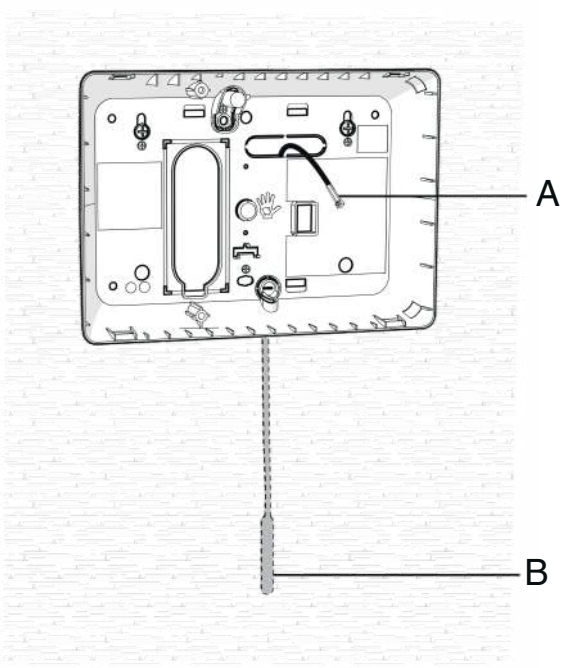
1. Power ON the Control Panel . Access the System
2. Configuration screen as follows: a . At the Home screen, tap the system logo in the lower-right corner.
   b . At the Enter Your Code screen, enter the installer code (the default code is 1561) .
   c . At the Installer Toolbox screen, tap System Configuration.
   d . Tap Go To and then enter the code shown below to respond to these programming questions:
   - Enter **08** .
   - Enter **11** .
   - Enter **12** .

IMPORTANT: You must program the module in order to use it with the Control Panel .

LTE (Cellular) Radio Module

If installing the LTE (Cellular) Radio Module, see below:

Figure 9 In-Wall Antenna Installation

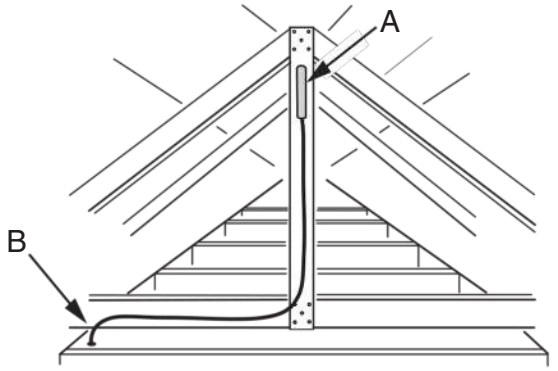


A	LTE (Cellular) Radio Module Connector
B	End of antenna hangs down inside the wall

NOTE: The routing of the antenna wire is critical. **You must route the wire exactly as directed or cell radio interference will occur.**

1. When using external antennas, plug the antenna connector into the LTE (Cellular) 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.

Figure 8 Attic Antenna Installation



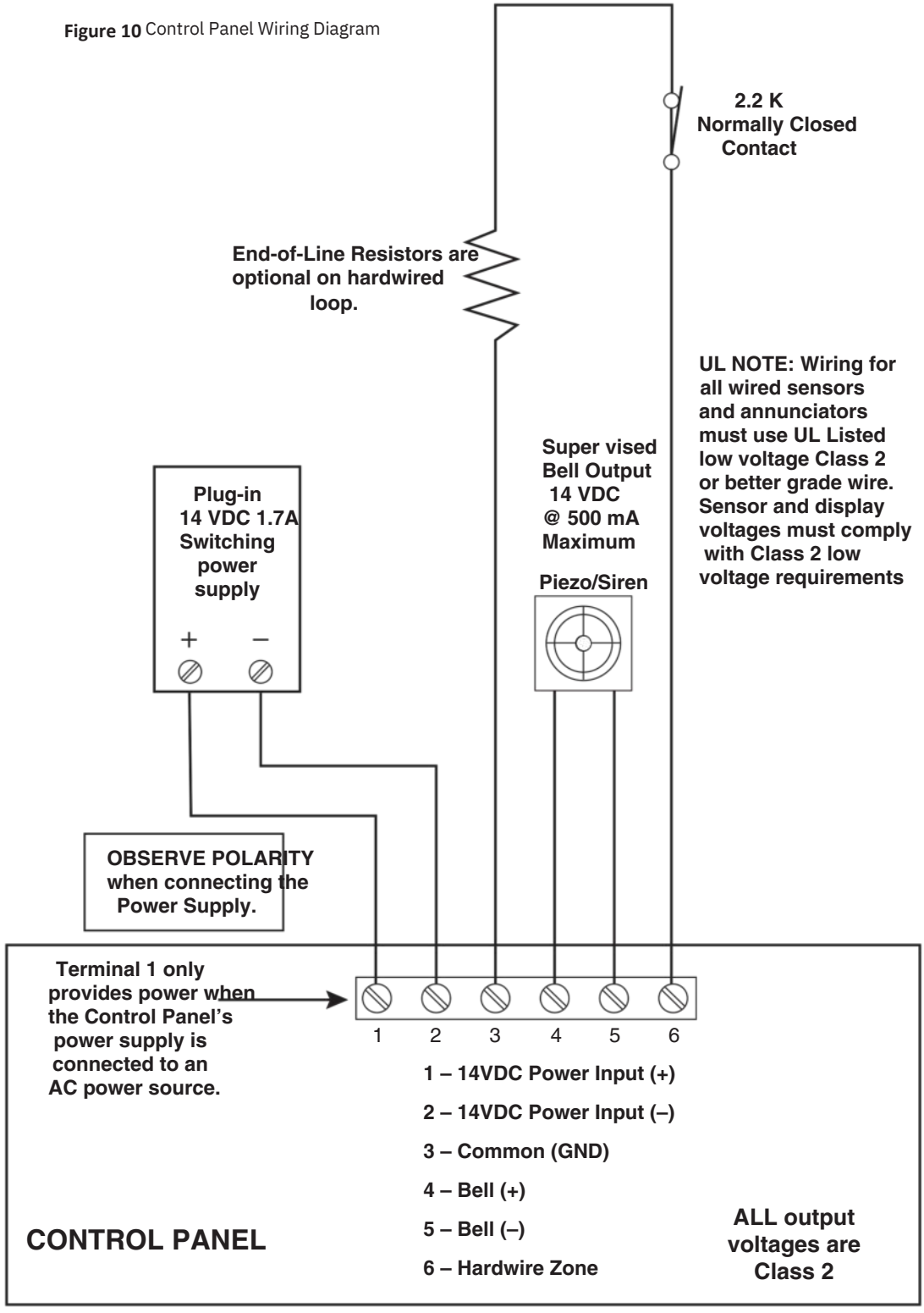
A	Attic antenna mounted as high as possible
B	Coaxial cable to Control Panel

The LTE (Cellular) Radio Module should already be activated by the factory. If not, contact the Remote Service Provider . For the LTE (Cellular) Radio Module to function, it must be activated before it can be enrolled. Enrollment is accomplished by creating an account with the provider .

Control Panel Wiring Diagram

The following diagram shows you the Control Panel wiring .

Figure 10 Control Panel Wiring Diagram

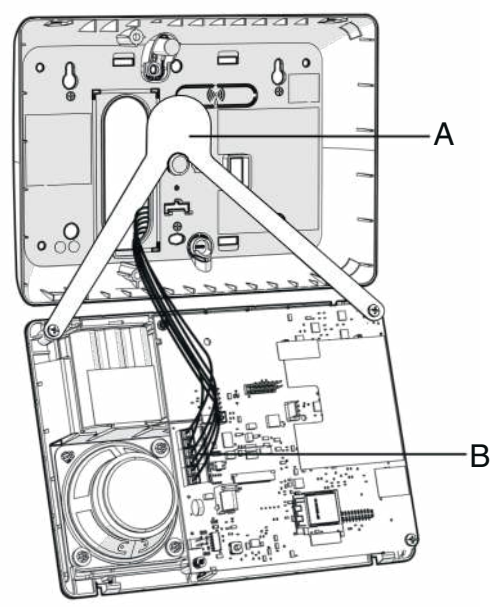


Control Panel Wiring

The third-hand hanging strap allows you to hang the Control Panel on the mounting plate during installation.

1. Hang the Control Panel on the mounting plate by the third-hand hanger strap.
2. Connect the hardwire loop and external sounder to the Control Panel's terminal block .

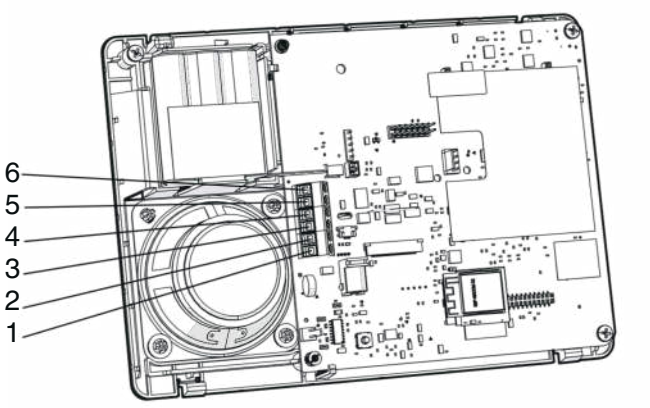
Figure 11 Third-Hand Hanging Strap



A	Third-hand hanging strap
B	Hardwire loops and external sounder connected to terminals.

Terminal Block Wiring Diagram

Figure 12 Terminal Block Wiring Diagram



1	14 VDC Power Input (+)
2	14 VDC Power Input (-)
3	Common Ground (GND)
4	Bell (+)
5	Bell (-)
6	Hardwired Zone

Backup Battery Connection and Power Supply Wiring

The backup battery connects to the Control Panel's circuit board with a two (2)-pin header assembly.

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

1. Locate an unswitched wall outlet for the plug-in power supply .

WARNING: Never connect the power supply to switch-controlled outlet .

2. Route two (2)-conductor wire from the power supply location to the Control Panel mounting plate. For wire size and maximum length, see "Wired 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 the power supply into an outlet at this time.
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: The standard backup battery that is included with all 2GIG Control Panels does not support UL 985 installations. To comply with the secondary supply requirement in *UL 985: Household Fire Warning System Units*, install the 2GIG Console Battery Pack (This is a high-capacity 2600mAh Ni-MH replacement battery pack).

Wire Size and Length

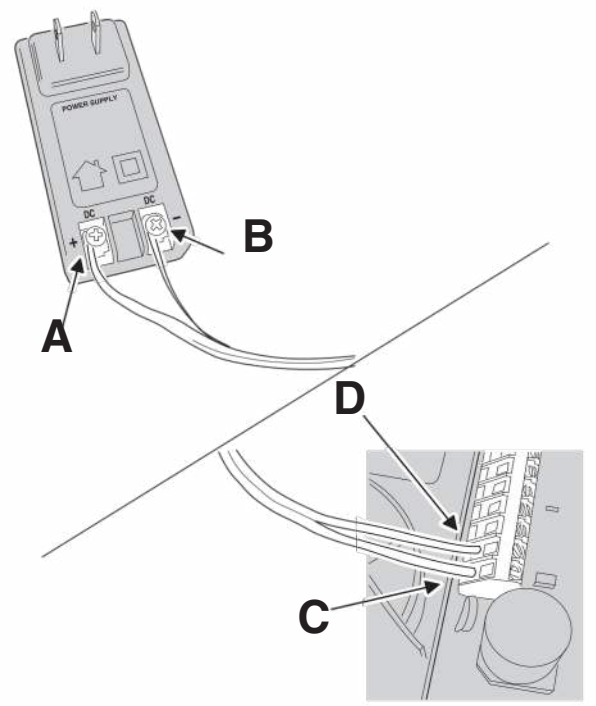
To ensure proper operation, do NOT exceed the following maximum length for the wire size installed:

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

TIP: To ensure that the appropriate wire size and length is 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 the Control Panel may display nuisance "AC Power Loss" messages and send AC Loss Reports to the Central Station. See *"Q52: AC Loss Reports to CS (0-1)"* on page 53 .

NOTE: In the United States, wiring routed inside walls, ceilings, and floors must comply with requirements of *ANSI/NFPA 70: National Electrical Code (NEC)* 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).

Figure 13 Power Supply Wiring



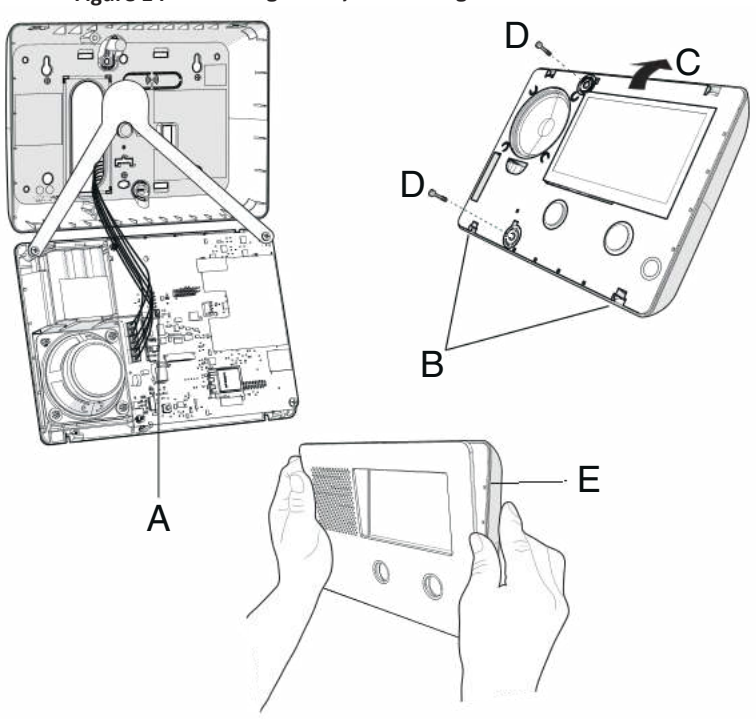
A	Left Terminal 14 VDC (+)	**C**	14 VDC (+) Terminal 1
B	Right Terminal 14 VDC (-)	**D**	14 VDC () Terminal 2

Control Panel and Power Supply Mounting

After all the wiring complete, follow these steps to power up the Control Panel:

1. Place the bottom of the Control Panel over the lower lip of the backplate and flip the Control Panel upwards. Then push the Control Panel over 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 .

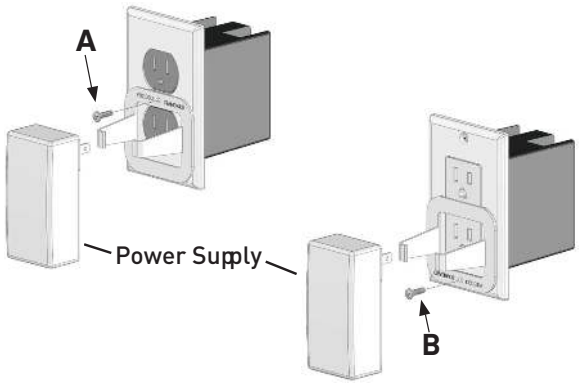
Figure 14 Connecting Battery and Closing Panel



A	Connect battery
B	Align mounting plate tabs inside of console bottom edge
C	Swing console up and snap into the mounting plate
D	Secure console with two screws in retaining mode
E	Align face plate and press into place

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

Figure 15 Securing the Power Supply



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: In the United States (and other countries where it is required), use the power supply retaining bracket. In Canada, the power supply retaining bracket is not required.

Commercial Installations

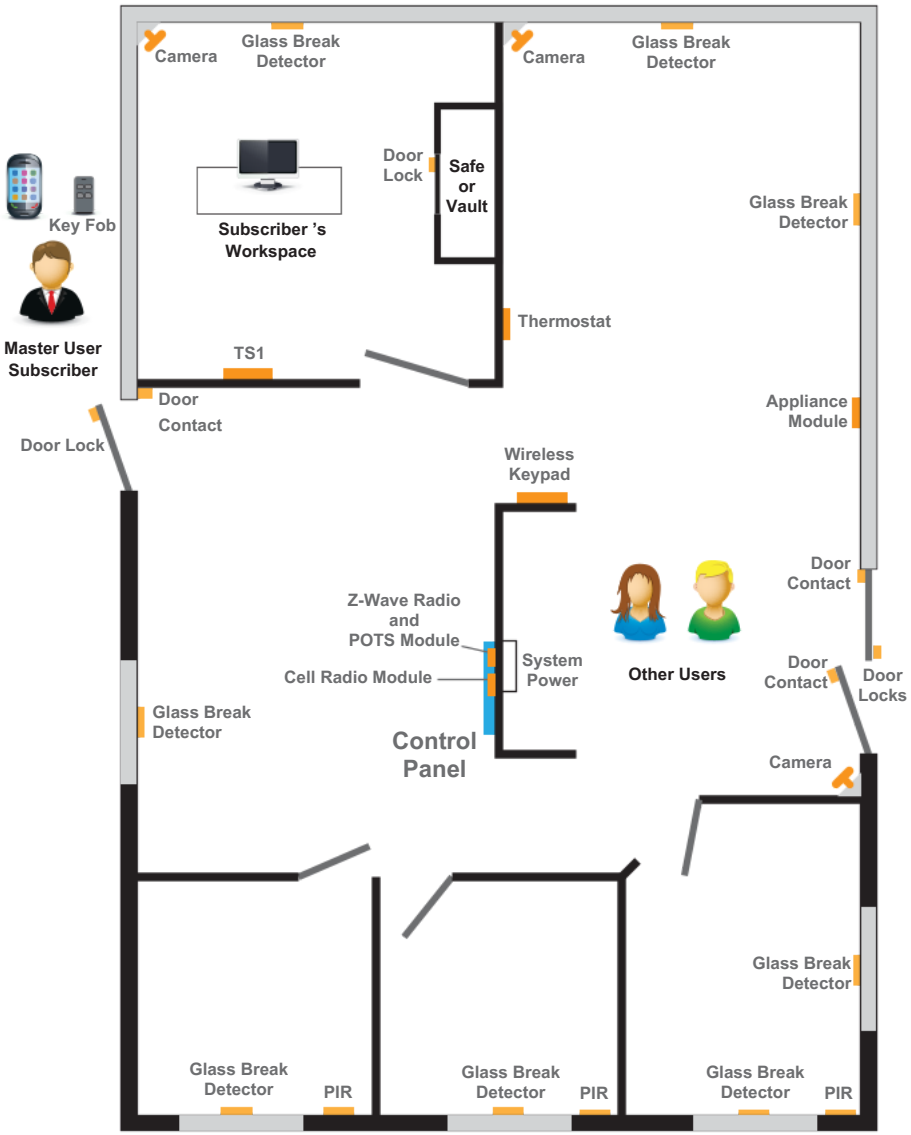
For commercial installations, the Control Panel is designed for use only as a burglary alarm system, and not for fire protection. Installation location and wiring methods shall be in accordance with *ANSI/NFPA 70: National Electric Code, UL 681: Installation and Classification of Burglar and Holdup Alarm Systems, and UL 827: Central-Station Alarm Services* .

NOTE: When used with the Alarm .com service, this security system has been evaluated and complies with *UL 1610: Central-Station Burglar Alarm Units*. For commercial UL 1610 installations, you must install the LTE (Cellular) Radio Module.

See *"LTE (Cellular) Radio Module"* on page 15 .

NOTE: All entries and exits within a commercial installation setup must be protected according to the criteria provided by *UL 681: Installation and Classification of Burglar and Holdup Alarm Systems.*

Figure 16 Commercial Installations



NFPA Standard 72

In the United States and Canada, smoke detectors must be installed in accordance with *National Fire Protection Association (NFPA) Standard 72: National Fire Alarm and Signaling Code*, which reads as follows:

"**2-1.1.1** 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.

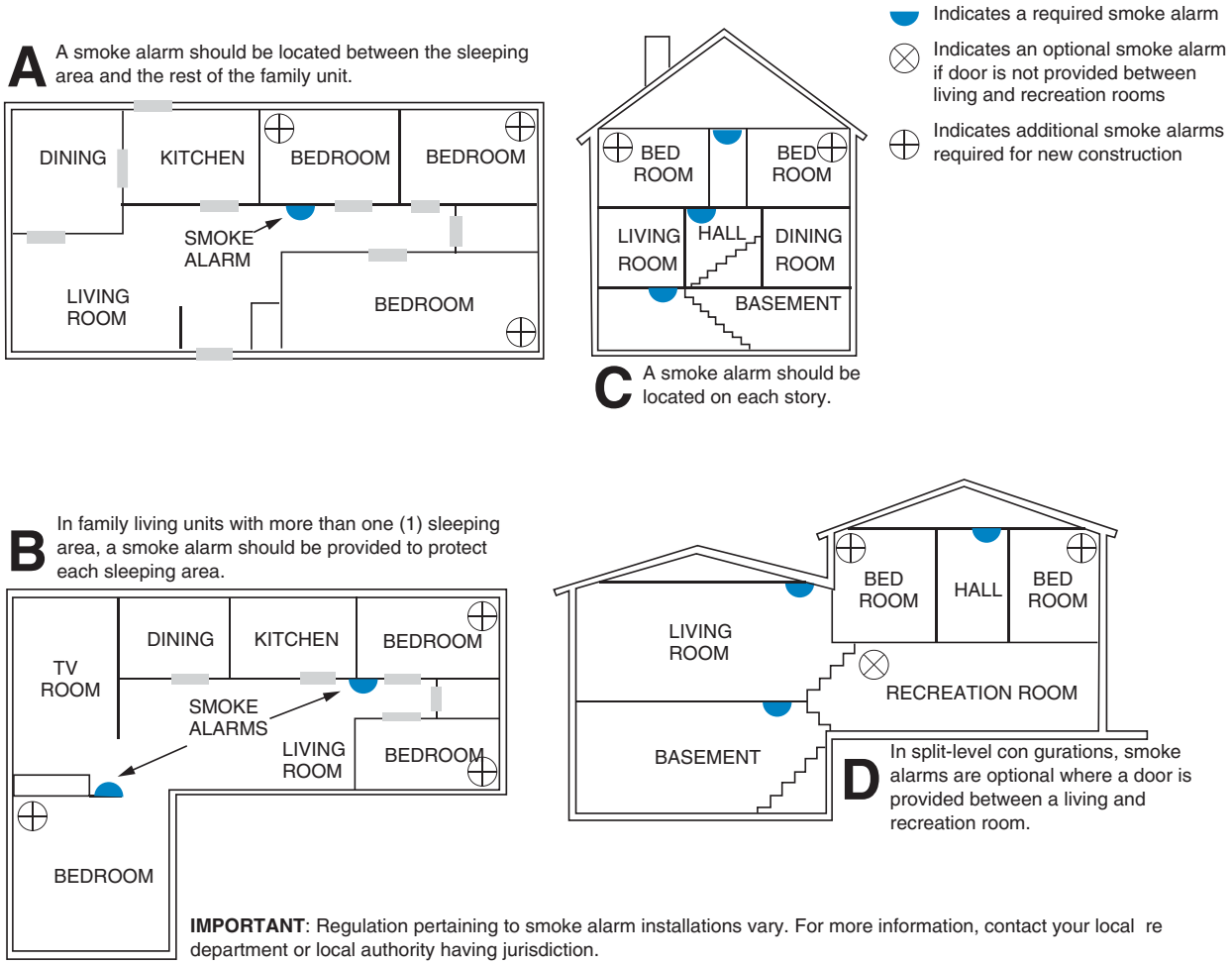
2-1.1.2 For family living units with one or more split levels (i.e., adjacent levels with less than one full story separation between levels), a smoke alarm shall suffice for an adjacent lower level, including basements. (Exception: Where there is an intervening door between one level and the adjacent 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 .

Figure 17 Recommended Smoke Alarm Locations



IMPORTANT: Regulation pertaining to smoke alarm installations vary. For more information, contact your local re department or local authority having jurisdiction.

Main Display Screens

Home Screen

To go to the **Home** screen, press the **Home** button on the Control Panel . The Home screen reveals:

- **System Status** . The status of the system appears at the top left of the screen. For example, *System Armed* or *System Ready, Not Armed* .
- **Conditional Messages**. A variety of conditional messages will also appear under the System Status .
- **Time, Date and Weather**. The current time, date, and daily weather forecast (when the system includes the LTE (Cellular) Radio Module and has an active account with a Remote Services Provider) .
- **System Status Icons**. Icons in the top-right corner reveal a variety of conditions. See *"System Status Icons"* on page 25 .

Buttons on this page include:

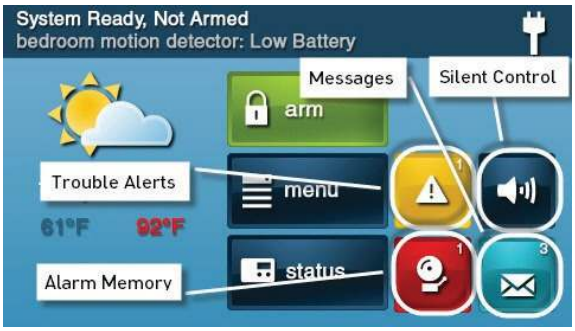
- Security . Opens the Security screen . See Security Screen .
- Services . Opens the Services screen . See the Control Panel's User Guide for more information.
- Silent Control . Opens the Bypass screen . See the Control Panel's User Guide for more information.
- Display OFF . Turn OFF the Control Panel screen .

Figure 18 Home Screen

Security Screen

The **Security** screen displays three (3) buttons for **Arm**, **Menu**, and **Status**. It also shows the time, date, and weather display (requires that the feature is supported by the Remote Service Provider) .

Figure 19 Security Screen



Under the appropriate conditions, additional buttons include:

- **Trouble Alerts** . Displays when trouble alerts are pending .
- **Messages** . Displays when messages are pending .
- **Alarm Memory** . Displays when alarms are pending .

For information about the **Silent Control** button, see the Control Panel's *User Guide* .

Arming Screen

The **Arming** screen lets users arm the security portion of the system . It displays the system status and arming buttons for **Stay** and **Away** mode . It also includes these options:

- **Entry Delay** Select this check box to arm the system with an entry delay . Clear the check box to arm the system without an entry delay . See "01 Exit/Entry 1" on page 33 and "01 Exit/Entry 2" on page 33 .
- **Silent Exit** Select this check box to silently arm the system without sounding the exit delay beeps . Arming the system in **Stay** mode always uses silent exit .

Figure 20 Arming Screen

Menu Screen

The **Menu** screen includes the **Arm** and **Toolbox** buttons.

Figure 21 The Menu Screen

If any of the 24-hour emergency options are enabled, an **Emergency** button also appears. It also includes these options:

- **Chime** Select this check box to enable system chimes and clear the check box to disable system chimes . Note that chimes can also be enabled or disabled for each sensor number by tapping **Toolbox** and then **Chimes Setup** .
- Voice Select this check box to enable voice announcements for the system . Voice announcements always sound during alarm conditions.

System Status Screen

The **System 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 .

Figure 22 System Status Screen

Toolbox and Installer Toolbox

The Control Panel includes two (2) different toolboxes for programming the system:

- **Toolbox** . Individuals with a *user code* can access basic programming functions in the end user Toolbox.
- **Installer Toolbox** . Individuals with the *installer code* can access both the basic programming functions of the user Toolbox and the more advanced programming functions of the Installer Toolbox .

Toolbox Screens

The Toolbox provides individuals who possess a *user code* with the ability to access basic programming functions.

Accessing the Toolbox

To access the basic Toolbox screens:

1. At the **Home** screen, tap **Security**, then **Menu**, and then **Toolbox** .
2. At the Enter Your Code to Access the Toolbox screen, enter a *user code* . The default user code is 1111 .

Figure 23 Enter Your Code Screen

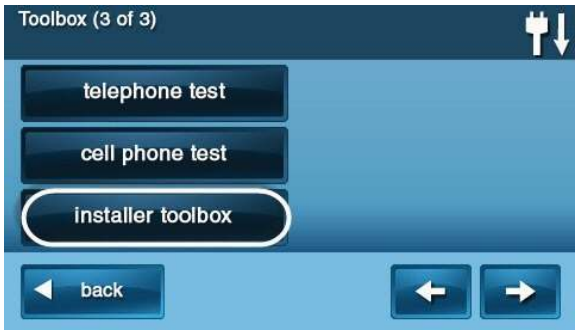
1. When the **Toolbox (1 of 3)** screen appears, tap the left and right arrows to scroll between the different screens.

   Each screen provides different buttons for accessing different features.

Figure 24 Toolbox (1 of 3)

Figure 25 Toolbox (2 of 3)

Figure 26 Toolbox (3 of 3)



Installer Toolbox Screens

The **Installer Toolbox** screen provides individuals who possess the *installer code* with the ability to access a variety of system configuration and testing buttons.

NOTE: The Installer Toolbox is only accessible when the system is disarmed . The *installer code* does NOT disarm the system. You must know the *user code* to disarm the system .

Accessing the Installer Toolbox

There are two (2) ways to access the Installer Toolbox on the Control Panel:

- At the **Home** screen, tap the system logo in the lower-right corner and then tap the **Installer Toolbox** button. Finally, enter the *installer code* . OR
- At the **Home** screen, tap **Security** > **Menu** > **Toolbox** . Then tap the **Installer Toolbox** button and enter the *installer code* .
- The default installer code is 1561 . To learn how to change this code, see *Q43: Installer Code (4 Digits)* .

Accessing the System Configuration for System and Sensor Programming

To access the system configuration screens for programming sensors into the system:

1. Tap **Disarm** and enter a valid user code . The default user code is 1111 .
2. Access the Installer Toolbox . See *Accessing the Installer Toolbox* above .
3. At the **Installer Toolbox** screen, tap the **System Configuration** button.

NOTE: The other buttons let you restore the default Control Panel settings and provide access to a variety of system tests.

Figure 27 Installer Toolbox Screen

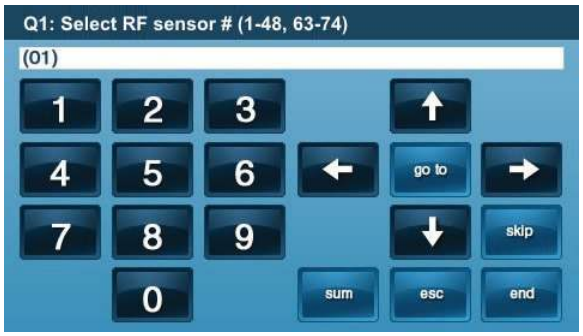
After tapping the **System Configuration** button, the first programming question appears. To learn more, see *System Configuration Screens* .

System Configuration Screens

Use the System Configuration screens to program sensors into the system . Installers can access the System Configuration screens as described in *Accessing the System Configuration for System and Sensor Programming* .

The System Configuration screens present installers with a sequential list of programming questions. For a list of all available programming questions, see "Programming Question Table on page 29 .

Figure 28 Q1: Select RF Sensor # (01-48, 63-74).



TIP: To simplify programming, questions are arranged so that commonly used values appear early in the question sequence.

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 on the right side to provide visual indications of the system's current condition.

Figure 29 System Status Icons

A Status Bar

B Status Icons

AC Power On/OFF

Figure 30 AC Power ON
The AC Power icon shows the status of the AC power to the Control Panel . A WHITE plug appears when AC power is present .

Figure 31 AC Power OFF
The AC Power icon shows the status of the AC power to the Control Panel. A RED "X" appears over the WHITE plug when AC power is absent .

Sounder Disabled

Figure 32 Sounder Disabled
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 .

Low Backup Battery

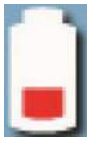


Figure 33 Low Backup Battery
If the Control Panel's backup battery tests low, the low backup battery icon appears.

Test Mode

Figure 34 Test Mode
This icon displays when the system is in Walk Test mode .

Touch Screen Keypad Traffic

Figure 35 Touch Screen Keypad Traffic
An up arrow indicates the panel is sending information to the touch screen keypad (if installed). A down arrow indicates the touch screen keypad is sending information to panel.

Cell Radio

Figure 36 Cell Radio
If the option LTE (Cellular) Radio Module is installed, the Cell Radio icon appears while the Control Panel is receiving Over-the-Air (OTA) firmware updates.

Interior sensor open

Figure 37 Interior Sensor Open
If an interior sensor is open (or a motion detector has just been activated) this icon appears. As a warning, the icon flashes during arming.

Programming Navigation

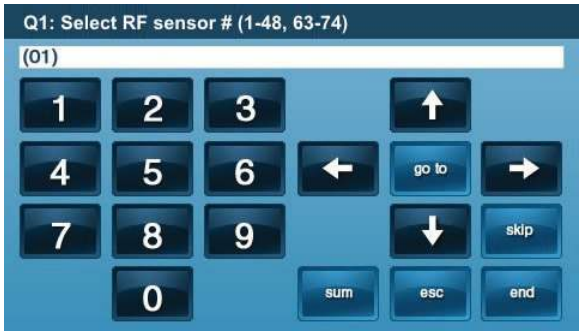
When the installer is using the System Configuration menus, the Control Panel will present each programming question sequentially. Most programming questions have a single numeric value response or a simple enabled/ disabled selection. Some programming questions have sub- options that can be set. These sub-options are displayed for the question selected and can be accessed through navigation keys on the display.

Navigation Arrows & Go To Button

The programming question screens display up, down, left, and right navigation arrows. Use these arrows to scroll through the programming questions and to select sub- options.

Tap the **Go To** button and then enter a two (2)-digit code to jump directly to a programming question. See *"Programming Question Table"* on page 28 . The **Go To** button changes to **Cancel** when waiting for you to enter a question number. Tap **Cancel** to back out .

Figure 38 Navigation Arrows & Go To Button



Questions without Sub-Options

Most of the programming questions do not have sub- options. They navigate as follows. Questions without sub- options do not display a **Skip** button.

Figure 39 Questions without Sub-options

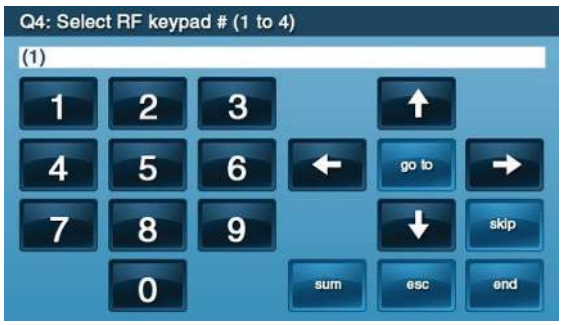
- The ↑ and ↓ arrows select the next or previous programming question.
- The ← and → arrows choose values for the question on or move the cursor left and right along the white data entry field.

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 on or move the cursor left and right along the white data entry field.

Figure 40 Questions with Sub-options



Questions with Data Entry

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 . See *"Voice Descriptors"* on page 35 .

- Tap **Insert** to display the first word in the *Voice Descriptors* list. Use the ← and → arrows to scroll through the word list, or enter the corresponding three (3)-digit code. See *"Voice Descriptors"* on page 35 .
- Tap **Backspace to move** the cursor to the left and delete one (1) character at a time.
- Tap **Delete** to delete one character to the right of the cursor or any characters that are highlighted .
- Tap **Forward** to highlight the next word in a multi- word data field.
- Tap **Back** to highlight the previous word in a multi- word data field. The **Back** button displays the previous screen in some cases .
- Tap **Shift** to reveal alternate characters on the keypad that can be used for data entry.

Figure 41 Questions with Data Entry

Additional Buttons

Depending on the programming question, additional buttons may be displayed on screen:

- Tap **Esc** (Escape) to “undo” the previous action. This is useful when you want to restore the previous value for the question or sub-question.
- Tap **Sum** (Summary) to reveal a summary of the values stored for the question and sub-options.
- Tap **End** to reveal a summary of the values stored for the entire Control Panel memory.
- Tap **Learn** to set the system to receive a sensor’s serial number during programming .
- Tap **Paste** to repeat the last sensor serial number entered .
- Tap **Exit** to exiting the programming module.

Figure 42 Other Buttons Displayed

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 that is reporting to the Central Station. Other programming values, such as the account number and sensor setup, may be unique for each installation.

Use the following outline to guide you through the installation process . 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, connected, and powered up

1. At the **Home** screen, tap the system logo in the lower right corner .

Figure 43 The Home Screen

NOTE: You can also tap the Installer Toolbox button from the system's **Toolbox (3 of 3)** screen .

2. Enter the *installer code* (the default installer code is 1561) in the **Enter Your Code to Access the Toolbox** screen .
3. At the Installer Toolbox, tap **System Configuration** . Then begin the *"RF Sensor Programming Questions"* on page 39 .
4. After programming all of the required sensors into the Control Panel, tap **End**, then **Exit**, to save the changes .
5. After the Control Panel restarts, tap **Security > Menu > Toolbox** .
6. When prompted, enter the *master user code.* The default master user code is 1111 .
7. Tap the **User Management** button and then setup the user codes . Be sure to set up the Duress Code as User #8 . Tap **Back** when finished. Tap **Brightness/Volume** and set the levels for the installation.
8. The volume setting does not affect the volume of alarm sounds .
9. Tap → to view the second toolbox screen.
10. Tap Back Light Timeout and set the display lighting timeout.
11. Tap Set Date and Set Time and set the calendar and clock . If the LTE (Cellular) Radio Module is installed,the date and time sets automatically.
12. Press the ▢ button to return to the Home screen.

After completing all setup and programming tasks, refer to the Control Panel's *User Guide* for information about operating the system. Check off the programmed options for the system in the *User Guide* .

NOTE: Instruct the end user about proper system operations, and leave the *User Guide* at the installation site for reference.

ANSI/SIA CP-01 Compliance

Several programmable options have the defaults preset to provide compliance with the *American National Standards Institutes/ Security Industry Association CP-01 Control Panel Standard* . The table below details the settings that comply with *ANSI/SIA CP-01* and permanently programmed into the Console . The *ANSI/SIA CP-01* settings documented in the table be low cannot be changed:

Programming Questions	ANSI/SIA CP-01 Setting	Range
Q1> Q: Select RF Sensor# Dialer Delay (0 to 1)	(1) Enabled	(0) Disabled or (1) Enabled
Q2 > Q: Select Wired Sensor Dialer Delay (0 to 1)	(1) Enabled	(0) Disabled or (1) Enabled
Q5 Enter Exit Delay, in Seconds (45-120)	60 Seconds	45-120 Seconds
Q6 Enter Entry Delay 1, in seconds (45-120)	30 Seconds	30-240 Seconds
Q7 Enter Entry Delay 2, in seconds (45-120)	No Default Code	30-240 Seconds
Q10 Enter Call Waiting Disable Code (0-6 digits	45 Seconds	0-6 Digits
Q20 Select Swinger Shutdown Count (1 to 6)	(2) Two Trips	1-6 Trips
Q26 Select Auto Stay (0 to 1)	(1) Enabled	(0) Disabled or (1) Enabled
Q27 Exit Delay Restart (0 to 1)	(1) Enabled	(0) Disabled or (1) Enabled
Q31 Enter Cancel Time, in Minutes (5-255)	5 Minutes	6-254 Minutes
Q32 Select Cancel Display (0 to 1)	(1) Enabled	(0) Disabled or (1) Enabled
Q35 Select Abort Window Dialer Delay (0 to 2)	30 Seconds	15 to 45 Seconds

Programming Question Table

Q#	Programming Question/Sub-Question	Default Setting
Q1	**Select RF Sensor # (01-48,63-74)**	
	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 NOTE: Only shown if (0000) Other is selected as the RF Sensor # Equipment Code
	Enter RF Sensor # Serial Number (7 digits)	0000000
	Select RF Sensor # Equipment Age (0 to 1)	(0) New
	Select RF Sensor # Loop Number (1 to 3)	Varies with sensor model selected
	Select RF Sensor # Dialer Delay (0 to 1)	(1) Enabled‡ (2) Disabled (for Fire and CO only)
	Construct RF Sensor # Voice Descriptor	No Default Setting
	Select RF Sensor # Reports (0 to 1)	(1) Enabled
	Select RF Sensor # Supervised (0 to 1)	(1) Enabled
	Select RF Sensor # Chime (0 to 13)	(0) Disabled
Q2	**Select Wired Sensor # (1 to 2)**	
	Select Wired Sensor # Type	(00) Unused
	Enter Wired Sensor # Equipment Code	
	Select Wired Sensor # Equipment Age (0 to 1)	(0) New
	Select Wired Sensor # Normal State (0 to 3)	(0) Not Used
	Select Wired Sensor # Dialer Delay (0 to 1)	(1) Enabled‡
	Construct Wired Sensor # Voice Descriptor (0 to 1) ‡	No default
	Select Wired Sensor # Reports (0 to 1)	(1) Enabled
	Select Wired Sensor # Chime (0 to 13)	(0) Disabled
	Select Fob # (1 to 8)	
Q3	Select Fob # Used (0 to 1)	(0) Unused
	Select Fob # Equipment Code (0000)	(0000) Other
	Enter Fob # Other Equipment Code (0 to 9999)	0 NOTE: Only shown when (0000) other is selected as the Fob # Equipment Code
	Enter Fob # Serial Number (7 digits)	0000000
	Select Fob # Equipment Age (0 to 1)	(0) New
	Select Fob # Emergency Key (0 to 4)	(0) Disabled
	Select Fob # Key 2 Can Disarm (0 to 1)	(1) Enabled
	Construct Fob # Voice Descriptor	Keyfob #
	Select Fob # Arm No Delay (0 to 1)	(0) Disabled
	Select Fob # Key 4 Output (0 to 2)	(0) Disabled
	Select RF Keypad # (1 to 4)	**(0) Unused**
Q4	Select RF Keypad # Used (0 to 1)	(0000) Other
	Select RF Keypad # Equipment Code	
	Enter RF Keypad # Other Equipment Code (0 to 9999)	0 NOTE: Only shown if (0000) Other is selected as the RF Keypad # Equipment Code
	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 #
	Enter Exit Delay, in Seconds (45 to 120)	**60 seconds‡**
	Enter Entry Delay 1, in Seconds (30 to 240)	**30 seconds‡**
Q5	**Enter Entry Delay 2, in Seconds (30 to 240)**	**45 seconds‡**
Q6	**Select Two-Way Voice (0 to 2)**	**(1) Stay Online**
Q7	**Select Silent Panic/Burglary Listen Only (1 to 1)**	**(1) Enabled**
Q13	**Select Dialing Type (0 to 1)**	**(0) Touch Tone**
Q14	**Select Police Emergency Key (0 to 2)**	**(1) Audible**
Q15	**Select Fire Emergency Key (0 to 1)**	**(1) Audible**
Q16	**Select Emergency Key (0 to 1)**	**(1) Audible**
Q17	**Select Quick Arming (0 to 1)**	**(1) Enabled**
Q18	**Select Swinger Shutdown Count (1 to 6)**	**(2) Two Trips‡**
Q19		

Programming Question Table

Q#	Programming Question/Sub-Question	Default Setting
Q2	Select Siren Supervision Time (0 to 3)	(0) Disabled
1	Enter CS Lack of Usage Notification Time, in Days (0-255)	7 Days
Q2	Enter Radio Modem Network Failure Time (0-255)	30 Minutes
2	Select Radio Network Failure Causes Trouble (0 to 1)	(1) Enabled
Q2	Select Radio Modem Network Failure Reports (0 to 1)	(1) Enabled
3	Select Auto Stay (0 to 1)	(1) Enabled ‡
Q2	Select Exit Delay Restart (0 to 1)	(1) Enabled ‡
4	Select Quick Exit (0 to 1)	(1) Enabled
Q2	Enter Periodic Test, in Days (0-255)	30 Days
5	Enter Cancel Time, in Minutes (5-255)	5 Minutes‡
Q2	Select Cancel Display (0 to 1)	(1) Enabled‡
6	Select Cross Sensor 47-48 (0 to 1)	(0) Disabled
Q2	Enter Cross Sensor Timeout, in Seconds (10-120)	10 Seconds
7	Select Abort Window Dialer Delay (0 to 2)	(1) 30 Seconds‡
Q2	Select Burglary Bell Cutoff (0 to 4)	(0) 4 Minutes
8	Select Fire Bell Cutoff (0 to 4)	(0) 4 Minutes
Q2	Enter Time to Detect AC Loss, in Minutes (1-30)	10 Minutes
9	Select Random AC Loss Report Time (0 to 1)	(1) Enabled
Q3	Enter CS #2 Phone Number (0-25 digits)	No Default
1	Enter Installer Code (4 digits)	1561
Q3	Select Lock Installer Programming (0 to 2)	(0) Disabled
2	Select Lock Default Programming (0 to 2)	(0) Default All
Q3	Select Trouble Doesn't Sound at Night (0 to 1) *	(1) Enabled
3	Select Troubles Resound After Holdoff (0 to 7)	(0) Disabled
Q3	Enter Download CSID (6 digits)	000000
4	Select Programming Mode Entry Reports to CS (0 to 1)	(0) Disabled
Q3	Select Trouble Reports to CS (0 to 1)	(1) Enabled
5	Select Manual Bypass Reports to CS (0 to 1)	(0) Disabled
Q3	Select AC Loss Reports to CS (0 to 1)	(1) Enabled
6	Select System Low Battery Reports to CS (0 to 1)	(1) Enabled
Q3	Select RF Low Battery Reports to CS (0 to 1)	(1) Enabled
7	Select Opening Reports to CS (0 to 1)	(0) Disabled
Q3	Select Closing Reports to CS (0 to 1)	(0) Disabled
8	Select Alarm Restore Reports to CS (0 to 1)	(0) Disabled
Q3	Select Trouble Restore Reports to CS (0 to 1)	(1) Enabled
9	Select Bypass Restore Reports to CS (0 to 1)	(0) Disabled
Q4	Select AC Restore Reports to CS (0 to 1)	(1) Enabled
0	Select System Low Battery Restore Reports to CS (0 to 1)	(1) Enabled
Q4	Select RF Low Battery Restore Reports to CS (0 to 1)	(1) Enabled
3	Select Phone Fail Detect (0 to 1)	(0) Disabled
Q4	Select Smart Test Reports (0 to 1)	(0) Disabled
4	Select RF Jam Causes Trouble (0 to 1)	(0) Disabled
Q4	Select Daylight Saving (0 to 1)	(1) Enabled
5	Select Daylight Saving Start Month (01 to 12)	(03) March
Q4	Select Daylight Saving Start Sunday (1 to 7)	(2) 2nd
6	Select Daylight Saving End Month (01 to 12)	(11) November
Q4	Select Daylight Saving End Sunday (1 to 7)	(1) 1st
7	Select System Tamper Causes Trouble (0 to 1)	(1) Enabled
Q4	Select Quick Bypass (0 to 1)	(0) Disabled
8	Select Disarming Keyfob After Alarm Alert (0 to 1)	(0) Disabled
Q4	Select Keyfob Arm/Disarm Confirmation (0 to 1)	(0) Disabled
9	Select Auto Unbypass for Manual Bypass (0 to 1)	(1) Enabled
Q5	Select Force Bypass Reports (0 to 1)	(0) Disabled
0	Select Event Log (0 to 3)	(3) All Events
Q5		
1		
Q5		
2		
Q5		

Programming Question Table

Q#	Programming Question/Sub-Question	Default Setting
Q7	**Select Z-Wave Feature (0 to 3) Select Z-Wave Switches Feature**	**Local Rules (1) Enabled (1) Enabled (1) Enabled (0) Degrees Fahrenheit**
8	**(0 to 1) Select Z-Wave Thermostats Feature (0 to 1) Select Z-**	(0) MM-DD-YY H:MM AM/PM (0) $ **(0) Disabled (0) Disabled**
Q7	**Wave Door Locks Feature (0 to 1) Select Temperature Display**	**(0) Disabled**
9	**Units (0 to 1)** Select date and time format (0 to 2) Select monetary	**(0) Auto-Bypass with Zone Participation (0) Sound for Burglary and**
Q8	symbol (0 to 8) **Select Services Require Master Code Select**	**Fire/CO (0) Disabled (0) Disabled and Hidden Varies by Supplier** (0)**
0	**Master User Access to Z-Wave Toolbox (0 to 1)**	**none** 0
Q8	**Select Disable Siren After Two-Way Audio (0 to 1)**	**NOTE:** Only appears if (1) Go!Bridge is selected in Q92 Select Network Device (0 to 1)
1	**Select Keyfob/Remote Arming Mode on System Not Ready (0 to**	(0) DHCP
Q8	**2) Select Z-Wave Siren Mode (0 to 1) Select Allow Backlight**	(1) Port 1
2	**Always On (Demo Mode) Select Energy Feature (0 to 2) Select**	**NOTE:** This option is automatically selected if you choose (0) DHCP in the previous question. Typically, you will skip this question unless additional programming is required.
Q8	**Radio Modem Supplier Select Network Device (0 to 1)**	
3		(0) Disabled
Q8		**NOTE:** Typically, you will skip this question unless additional programming is required.
6		
Q8		0
7		**NOTE:** Only appears if (1) Enabled is selected in Select Used (0 to1)
Q8		
8		
Q8	Network Device ID (Read-Only)	
9		
Q9	Select Configuration Source (0 to 1)	
0	If (0) DHCP is selected in Select Configuration Source (0 to 1), the following sub-questions appear:	
Q9	Select Port # (1 to 8)	
1		
Q9		
2	Select Used (0 to 1)	
	Enter Port Value (0-65535)	
	Enter Port Forward IP Address	
	If (1) Static is selected in Select Configuration Source (0 to 1), the following sub-questions appear	000.000.000.000 **NOTE:** Only appears if (1) Enabled is selected in Select Used (0 to 1).
	Enter Device IP Address	**NOTE:** Typically, you will accept the default IP address value that appears.
	Enter Gateway IP Address	
	Enter Subnet Mask	
Q9	**Enter Broadband Network Failure Time (1-255)**	**30**
3	**Select Broadband Network Failure Causes Trouble (0 to 1)**	**(1) Enabled**
Q9	**Select Broadband Network Failure Reports (0 to 1)**	**(1) Enabled**
4	**Select send report 3 times on panel tamper (0 to 1)**	**(1) Enabled****
Q9	**Select sound on normal closing acknowledgment (0 - to - 1)**	**(1) Enabled****
5	‡ Indicates the default setting for ANSI/SIA CP-01 compliance	
Q9	* To comply with UL 985:Household Fire Warning System Units, the setting for Q46: Select Trouble Doesn't Sound at Night must be set to (0) Disabled.	
6	** To comply with UL 1610: Central-Station Burglar-Alarm Units, Q96and Q97 must beset to (1) enabled. UL 1610 compliance also requires that **Q91: Select Radio Modem Supplier** be set to (1) Radio Modem Supplier 1.	
Q9		
7		

Zone Numbering

The Control Panel supports 60 wireless protection zones. When programming zones, keep the following numbering ranges in mind:

Zones	Descriptions
1-48	Wireless Zones
47-48	Wireless Cross-Sensor Zone
49-50	Wired Zones
51-58	Keyfobs
59-62	Keypads
63-74	Wireless Zones
92	Duress
95	Fire
96	Medical
99	Police Panic

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 Type (Zone)	Descriptions
(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 Stay or Away mode, the exit delay timer starts. There is an exit delay regardless of whether the system is armed in Stay 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 timer expires, or an alarm will occur. If the entry delay timer 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 starts the Entry Delay 2 timer.
(03) Perimeter	This provides a method of having a longer entry delay on certain openings, such as a garage door, to provide the end user more time to disarm the system. 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 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.
(05) Day Zone	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. 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 (2) 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. **WARNING** THIS UNIT INCLUDES AN ALARM VERIFICATION FEATURE THAT WILL RESULT IN A DELAY OF THE SYSTEM ALARM SIGNAL FROM THE INDICATED CIRCUITS. THE TOTAL DELAY (CONTROL UNIT PLUS SMOKE DETECTORS) SHALL NOT EXCEED 60 SECONDS. NO OTHER SMOKE DETECTOR SHALL BE CONNECTED TO THESE CIRCUITS.

Sensor Type (Zone)	Description
(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 or Away mode.
(32) Remote Device*	This zone type is selected by the installer when pairing the panel with peripheral devices that can utilize localized troubles (such as RF jam, low battery, tamper, or AC loss detected by the peripheral device). This sensor is continuously active and will cause a trouble at the panel for all problem conditions. When the panel is in an armed state, this sensor type will cause an alarm for TAMPER and RF JAM. All trouble conditions will be sent to the monitoring station if reporting is enabled with the exception of AC LOSS. This will only be displayed at the panel.

† Indicates Sensor types that are not allowed for hardwired loops .
* Sensor Type Reporting is only supported on Alarm .com .

Voice Descriptors

The Control Panel includes a system vocabulary. When programming sensors when using firmware version 1.13, you can use the codes detailed in this table:

Figure 44 List of Voice Descriptors

Cod	Description	Cod	Description
e	ABORT	e	CLOSET
002	AC	041	CODE
003	ACCESS	042	COMMUNICATIONS
004	ALARM	043	COMPUTER
005	AND	044	CONTROL
006	ANNOUNCEMENT	045	COOL
007	AREA	046	CRAWL
008	ARM	047	CURRENT
009	ARMED	048	DAY
010	ARMING	049	DEGREES
011	AT	050	DEN
012	ATTIC	051	DETECTOR
013	AUDIO	052	DIM
014	AUTO	053	DINING
015	AUTOMATION	054	DISARM
016	AUXILIARY	055	DISARMED
017	AWAY	056	DOCK
018	BABY'S	057	DOOR
019	BACK	058	DOWNSTAIRS
020	BASEMENT	059	DRIVEWAY
021	BATHROOM	060	EAST
022	BATTERY	061	EIGHT
023	BEDROOM	062	EIGHTEEN
024	BONUS	063	EIGHTY
025	BREAK	064	ELECTRIC
026	BUTTON	065	ELEVEN
027	BYPASS	066	EMERGENCY
028	BYPASSED	067	ENTER
029	CABINET	068	ENTRANCE
030	CANCEL	069	ENTRY
031	CARBON MONOXIDE	070	ERROR
032	CELLAR	071	EXERCISE
033	CELLULAR	072	EXIT
034	CELL RADIO	073	EXIT NOW
035	CENTER	074	EXTERIOR
036	CHECK	075	EXTERNAL
037	CHEST	076	FAILURE
038	CHILDREN'S	077	FAMILY
039	CHIME	078	FAN
040		079	

Cod	Description	Cod	Description
e	FIFTEEN	e	INTRUSION
080	FIFTY	119	IS
081	FIRE	120	KEY
082	FIRE ALERT	121	KEYFOB
083	FIRE DETECTOR	122	KEYPAD
084	FIRST	123	KIDS
085	FIVE	124	KITCHEN
086	FLOOD	125	LAUNDRY
087	FLOOR	126	LEFT
088	FLUID	127	LEVEL
089	FOIL	128	LIBRARY
090	FOR	129	LIGHT
091	FORTY	130	LIGHTS
092	FOUR	131	LIQUOR
093	FOURTEEN	132	LIVING
094	FOURTH	133	LOADING
095	FREEZE	134	LOCK
096	FREEZER	135	LOFT
097	FRONT	136	LOW
098	FURNACE	137	MAIN
099	GAME	138	MAINTENANCE
100	GARBAGE	139	MASTER
101	GAS	140	MEDICAL
102	GLASS	141	MEDICINE
103	GLASS BREAK	142	MENU
104	GUEST	143	MIDDLE
105	GUN	144	MONITOR
106	HALL	145	MOTION
107	HALLWAY	146	MOTION DETECTOR
108	HANGING	147	MUD
109	HANGUP	148	NINE
110	HEAT	149	NINETEEN
111	HIGH	150	NINETY
112	HOME	151	NORTH
113	HOUSE	152	NOT
114	ICE	153	NOT READY
115	INSIDE	154	NO DELAY
116	INSTANT	155	NO ENTRY DELAY
117	INTERIOR	156	NURSERY
118		157	

Cod	Description	Cod	Description
e	OFF	e	SEVENTY
158	OFFICE	197	SHED
159	ON	198	SHOP
160	ONE	199	SIDE
161	ONE HUNDRED	200	SILENT
162	OUTPUT	201	SIREN
163	OUTSIDE	202	SIX
164	PANEL	203	SIXTEEN
165	PANIC	204	SIXTY
166	PANTRY	205	SKYLIGHT
167	PATIO	206	SLIDING
168	PERIMETER	207	SMOKE
169	PHONE LINE	208	SOUNDER
170	PLAY	209	SOUTH
171	POLICE	210	SPARE
172	POOL	212	STAIRS
173	POUND	213	STAR
174	POWER	214	STATUS
175	PRESS	215	STAY
176	PREVIOUS	216	STOP
177	PUMP	217	STORAGE
178	RADIO	218	STUDY
179	READY	219	SUMP
180	REAR	220	SUPERVISION
181	RELAY	221	SYSTEM
182	REMOTE	222	TAMPER
183	REPEAT	223	TEMPERATURE
184	RF JAM	224	TEN
185	RIGHT	225	TERMINATED
186	ROOM	226	THERMOSTAT
187	SAFE	227	THIRD
188	SECOND	228	THIRTEEN
189	SECURITY	229	THIRTY
190	SENSOR	230	THREE
191	SENSORS	231	TO
192	SESSION	232	TOOL
193	SET	233	TRANSMITTED
194	SEVEN	234	TRANSMITTER
195	SEVENTEEN	235	TROUBLE
196		236	

Cod	Description	Cod	Description
e	TURN	e	DAUGHTER'S
237	TWELVE	276	DOORBELL
238	TWENTY	277	GIRL'S
239	TWO	278	IMAGE
240	UNLOCK	279	IMAGE SENSOR
241	UPPER	280	MAIN
242	UPSTAIRS	281	SON'S
243	USER	282	SUN
244	UTILITY	283	THEATER
245	VALVE	284	WING
246	VOICE	285	SWITCH
247	WALL	286	
248	WATER		
249	WEST		
250	WINDOW		
251	WIRELESS		
252	YARD		
253	ZERO		
254	ZONE		
255	BALCONY		
256	COURTYARD		
257	DECK		
258	DETACHED		
259	OVERHEAD		
260	REFRIGERATOR		
261	SERVICE		
262	WAREHOUSE		
263	GATE		
264	APARTMENT		
265	FOYER		
266	TV		
267	VIDEO		
268	PORCH		
269	CORNER		
270	BELL		
271	BOY'S		
272	CAMERA		
273	CAVE		
274	DAUGHTERS		
275			

Equipment Codes

The table below details the available equipment codes:

Cod	Description
	Other
000	HW R-D/W “5818MNL”
0	Existing Glass Break Detector
047	HW Panic Pendant “5802MN2”
0	HW Glass Break “5853”
047	HW PIR “5894PI”
5	HW PIR “5890”
049	Existing Flood/Temp Sensor
1	HW Heat Sensor “5809”
051	Existing Keyfob Remote
9	HW Smoke “5808W3”
053	Existing Motion Detector
0	Existing Smoke Detector
053	HW Flood Sensor “5821”
3	HWD/W”5816”
055	Existing Door/Window Contact
6	Existing CO Detector
055	Existing Heat Sensor
7	CO1-345C CO Detector (Canada)
057	CO1-345 CO Detector (USA)
7	2GIG Thin Door/Window Contact
058	2GIG Recessed Door Contact
9	2GIG Glass Break Detector
060	2GIG Outdoor Door/Window Sensor
9	2GIG 4-Button Keyfob Remote
061	2GIG Wireless Keypad
6	2GIG Panic Button Remote
062	2GIG PIR with Pet Immunity
4	SMKE1-345C Smoke Detector (Canada)
063	SMKE1-345 Smoke Detector (USA)
7	2GIG Takeover Module
065	Smoke/Heat Detector (USA/Canada)
5	2GIG CO Detector
069	2GIG Smoke Detector
2	2GIG-TS1 Wireless Touchscreen Keypad
070	Tilt Sensor
8	2GIG Tilt Sensor
085	2GIG Doorbell
9	2GIG Bypass Sensor
086	2GIG Flood Sensor
0	2GIG Repeater
086	2GIG Translator
2	2GIG FireFighter SMKT/CO Listener
086	Alarm.com Image Sensor
3	
086	
4	
086	
5	

2GIG eSeries Equipment Codes

Wireless Zones - GC2e & GC3e eSensor Equipment Codes

When programming eSensors (Wireless Sensors & Keyfobs) the equipment code must match the sensor being installed.

Code	Description
2058*	eSeries Smoke Detector (USA) (Use for all loops (1 2 3)
*	eSeries Tilt Sensor
2061*	eSeries Flood Sensor
2065*	eSeries Repeater
2067*	eSeries FireFighter SMKT/CO Listener
2069*	eSeries Water Sensor
2070*	eSeries CO Detector (USA)
2860	eSeries Thin Door/Window Contact
2862	eSeries Recessed Door Contact
2863	eSeries Glass Break Detector
2864	eSeries Outdoor Door/Window Sensor
2865	eSeries Key FOB
2866	eSeries Panic
2868*	eSeries PIR with Pet Immunity
2869	eSeries Takeover Module
2873*	

Note: For sensors with multiple loops, the eSeries equipment codes must be used for all programmed loops.

*Available soon for GC2e

**Available soon for GC2e & GC3e

Installer Programming

Account Registration

Register the account to enroll the Control Panel with the remote service provider's Central Station.

Typically, the account registration data is created with the service installation contract and then stored in a database managed by the Central Station. The data includes items such as the customer name, address, and the Central Station telephone number, and the account number assigned to the Control Panel .

If you will be installing the 2GIG Go!Bridge IP Communicator, additional registration information is required. For details, see the *Installation Instructions* included with the Go!Bridge IP Communicator .

Wireless (RF) Sensor Programming

The Control Panel can be programmed with up to 60 RF sensors of different types. In addition to the 60 multi- purpose RF sensors, you can also program eight (8) RF remote control key fobs and four (4) RF remote control keypads into the system .

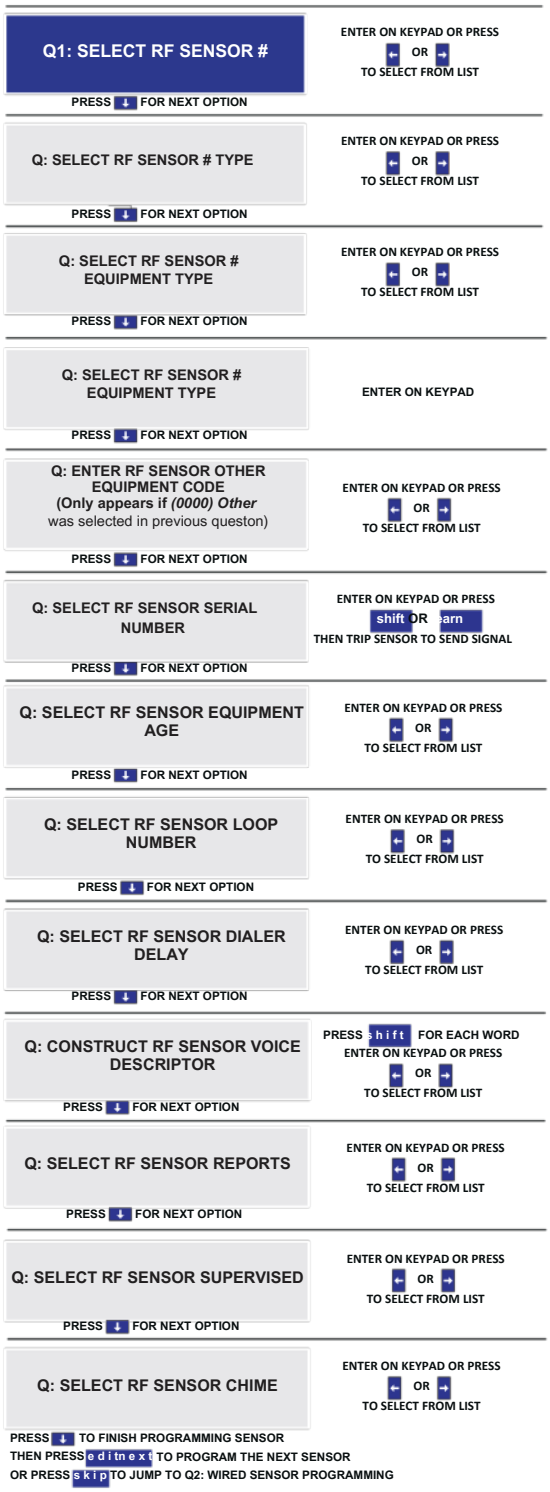
RF sensors # 01-48 and #63-74 report as wireless zones 01- 60.

Programming questions for RF sensor programming include:

- **Q1: Select RF Sensor Number** . Select sensor number 01-48 or 63-74.
  - **Q: Select RF Sensor # Type**. Select (01) *Exit/Entry 1*, (02) *Exit/Entry 2*, *(03) Perimeter*, and so on. For options, see ~~*"Zone Numbering"* on page 32~~ .
  - **Q: Select RF Sensor # Equipment Type** . Some sensor types ask for the equipment type, others do not. See *"Q: Select RF Sensor # Equipment Type"* on page 40 .
- **Q: Select RF Sensor # Equipment Code**. Select the four (4)-digit equipment code for the sensor model. See *"Equipment Codes"* on page 37 .
- **Q: Enter RF Sensor # Other Equipment Code** . If you select *(0000) Other* in the previous question, you must enter this code .
- **Q: Enter RF Sensor # Serial #** . Enter the serial number (typically a label on the sensor or its packaging) or tap **Shift** then **Learn** on the panel . Then trip the sensor to transmit the serial number to the panel .
- **Q: Select RF Sensor # Equipment Age** . Specify whether the sensor is *(0) New* or *(1) Existing* .
- **Q: Select RF Sensor # Loop Number** . Specify the appropriate loop number(s) for the sensor . See *"Q: Select RF Sensor # Loop Number (1 to 3)"* on page 40 .
- **Q: Select RF Sensor # Dialer Delay** . Specify whether to use delayed or instant digital communicator reports for the sensor. The delay time is set on the Dialer Abort screen.
- **Q: Construct RF Sensor # Voice Descriptor** . Specify the name assigned to the sensor that is announced if this feature is programmed .
- **Q: Select RF Sensor # Reports** . Specify *(0) Disabled* or *(1) Enabled* whether or not RF sensors trigger a report to the Central Station.
- **Q: Select RF Sensor # Supervised** . Specify whether or not the Control Panel checks for status reports from the sensor .
- **Q: RF Sensor # Chime** . Select voice announcement and chime options for the sensor.

Q1: RF Sensor Programming Outline

Figure 45 RF Sensor Programming Outline



Scroll between op ons using the ← and → arrows. Move to the previous or next prompt by tapping the ↑ and ↓ arrows.

1. 1 To program another sensor tap Next .
2. To exit programming, tap Skip then End and Exit . Upon exit, the panel takes several seconds to restart . *Only use d for “other” equipment

Tap **Insert for each word . To select from the list, you can use the keypad or tap the ← or → arrows.

Summary of RF Sensor # 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 tapping the **Sum** button.

- While programming each RF sensor remember that the ← and → arrow bu ons step through each of the RF sensor numbers .
- To return to programming, tap **Edit Current** or **Edit Next** .
- Tap **Skip** to go to question number Q2 (Wired Sensor Programming) . See *“Wired Sensor Programming”* on page 41 .

Figure 46 Summary of RF Sensor # Screen

RF Sensor Programming Questions

Q1: Select RF Sensor # (01-48, 63-74)

Up to 60 wireless RF sensors can be used with each Control Panel. The options for each sensor are programmed with sub-option questions.

1. Enter the RF sensor number or tap the ← or → arrows to select it .
2. Program the sensor details by using the ↑ and ↓ arrows to select each of the sub-options.

NOTE: To skip Q1 and jump directly to Q2 for Wired Sensor Programming, tap **Skip** .

Q: Select RF Sensor # Type

DEFAULT: (00) Unused

Answer this question to define the sensor type (zone). Simply enter the appropriate code (see table below) or tap the ← or → arrows to select the desired zone .

In the table below, a “Y” indicates the sensor type can be assigned. A “N” indicates the sensor type is not used, an d an asterisk (*) denotes that selecting this sensor type also requires you to answer the *Q: Select RF Sensor # Equipment Type* question.

Sensor Types (Zone)	RF	Wire
Unused (01) Exit/Entry 1	Y	Y Y
(02) Exit/Entry 2 (03)	Y	Y Y Y
Perimeter (04) Interior	Y	Y Y Y
Follower* (05) Day Zone	Y	
(06) 24-Hour Silent Alarm*	Y	
(07) 24-Hour Audible	Y	
Alarm*	Y	
	Y	

Sensor Types (Zone)	RF	Wire
(08) 24-Hour Auxiliary Alarm*	Y	d Y N
(09) 24-Hour Fire	Y	Y N N
(10) Interior with Delay*	Y	Y Y
(14) 24-Hour Carbon Monoxide	Y	
(16) 24-Hour Fire Verification	Y	
(23) No Response Type*	Y	
(24) Silent Burglary	Y	

Q: Select RF Sensor # Equipment Type

DEFAULT: Varies by RF Sensor Type

NOTE: Some sensor types (zones) will require you to specify an equipment type selection, which affects the sensor's extended reporting code.

Simply enter the appropriate equipment type code (see table below) or tap the ← or → arrows to select the appropriate equipment type.

The table below shows the Equipment Types available for each Sensor Type (Zone):

Sensor Type (Zone)	Equipment
(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

Q: Select RF Sensor # Equipment Code

DEFAULT: (0000) Other

Select the four (4)-digit equipment code that corresponds to the appropriate sensor model . See *"Equipment Codes"* on page 37 .

- When programming eSensors (Wireless & Keyfobs), the equipment code must match the sensor being installed.

Q: Select RF Sensor # Other Equipment Code

NOTES:

- This sub-question is only displayed if *(0000) Other* is selected as the **RF Sensor # Equipment Code** .

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

Q: Enter RF Sensor # Serial Number (7 Digits)

DEFAULT: 0000000

RF sensor serial numbers can be manually entered or automatically transmitted from the sensor to the Control Panel.

- **For manual entry** . Enter the sensor number that was logged for the sensor being programmed . Tap **Shift** to access alphabetic characters.
- **For automatic entry** . Tap **Shift**, then tap **Learn** to place the Control Panel into learning mode . Then trigger the RF sensor. The Control Panel will beep four (4) 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. The fir st press of the tamper switch will learn the sensor into the panel as Loop #1 . The second press of the tamper switch will learn the sensor into the panel as Loop #2, and the third press of the tamper switch will learn the sensor into the panel as Loop #3 . Pa use 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. For details, see the *Installation Instructions* included with the sensor .

Q: Select RF Sensor # Equipment Age (0 to 1)

DEFAULT: (0) New The Control Panel can be used with new or existing RF sensors.

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

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 .

Q: Select RF Sensor # Loop Number (1 to 3)

DEFAULT: Varies with sensor model selected The 2GIG Door/Window Contact sensors have two (2) inputs: an internal magnetic contact and an external *Normally Closed* (N/C) hardwired input . Either or both sensor inputs can be used .

TIP: Some sensors are capable of three (3) loop inputs .

NOTE: When using both the internal magnetic contact and the external input, the magnet contact AND the external contact must 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) 2* .
- When programming the sensor to use its hardwired input, set the loop number as *(1) 1* .
- When programming a three (3)-loop sensor to use an additional input, set the loop number as *(3) 3* .
- When entering the sensor number for the sensor's loop 2 or 3, tap **Paste** to recall the last programmed sensor's serial number. (The sensor number will be filled in automatically if **Learn** is used) .

Q: Select RF Sensor # Dialer Delay (0 to 1)

DEFAULT: (1) Enabled

If this feature is enabled, the delay time must be set to a minimum of 30 seconds for ANSI/SIA compliance. To set the delay time, see "Q35: Abort Window Dialer Delay (0-2)" on page 52 .

- RF sensors can trigger the digital communicator immediately or after a delay. The default setting *(1) Enabled* causes delayed dialing for this RF sensor number .
- For immediate dialing for this RF sensor number, select *(0) Disabled* .

NOTE: This setting for CO and Smoke Alarms is automatically set to *(0) Disabled*, and this sub-question is skipped for these sensor types .

Q: Construct RF Sensor # Voice Descriptor

DEFAULT: No Default

NOTE: For a list of available voice descriptors, see *"Voice Descriptors"* on page 35 .

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(5) words are allowed.

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

Q: Select RF Sensor # Reports (0 to 1)

DEFAULT: (1) Enabled

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

- The default setting *(1) Enabled* enables reporting for this RF sensor number .
- To prevent reporting for this RF sensor number, select *(0) Disabled* .

Q: Select RF Sensor # Supervised (0 to 1)

DEFAULT: (1) Enabled

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 setting *(1) Enabled* allows supervision for this RF sensor .
- To turn off supervision for this RF sensor, select *(0) Disabled* .

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

Q: Select RF Sensor# Chime (00 to 13)

DEFAULT: (0) Disabled

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 Setu**p in the User Toolbox .

- The default setting *(0) Disabled* 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:

Cod	Sensor Chime
(0)	Disabled
(1)	Voice Only
(2)	Ding-Dong with Voice #1
(3)	Ding-Dong #2
(4)	Ding-Dong with Voice #2
(5)	Ding-Dong #1
(6)	Ding-Ding
(7)	Ding-Ding with Voice
(8)	Ding-Dong #3
(9)	Ding-Dong with Voice #3
(10)	Chime #1
(11)	Chime #1 with Voice #1
(12)	Chime #2
(13)	Chime #2 with Voice #2

Wired Sensor Programming

The Control Panel can be programmed with up to two (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 two (2) hardwired sensors can be wired into the Terminal Block, see the *"Terminal Block Wiring Diagram"* on page 17 .

CAUTION: Wired sensors cannot be used for a CO or Fire sensor loop .

IMPORTANT: Note that Wired Sensor reports as below:

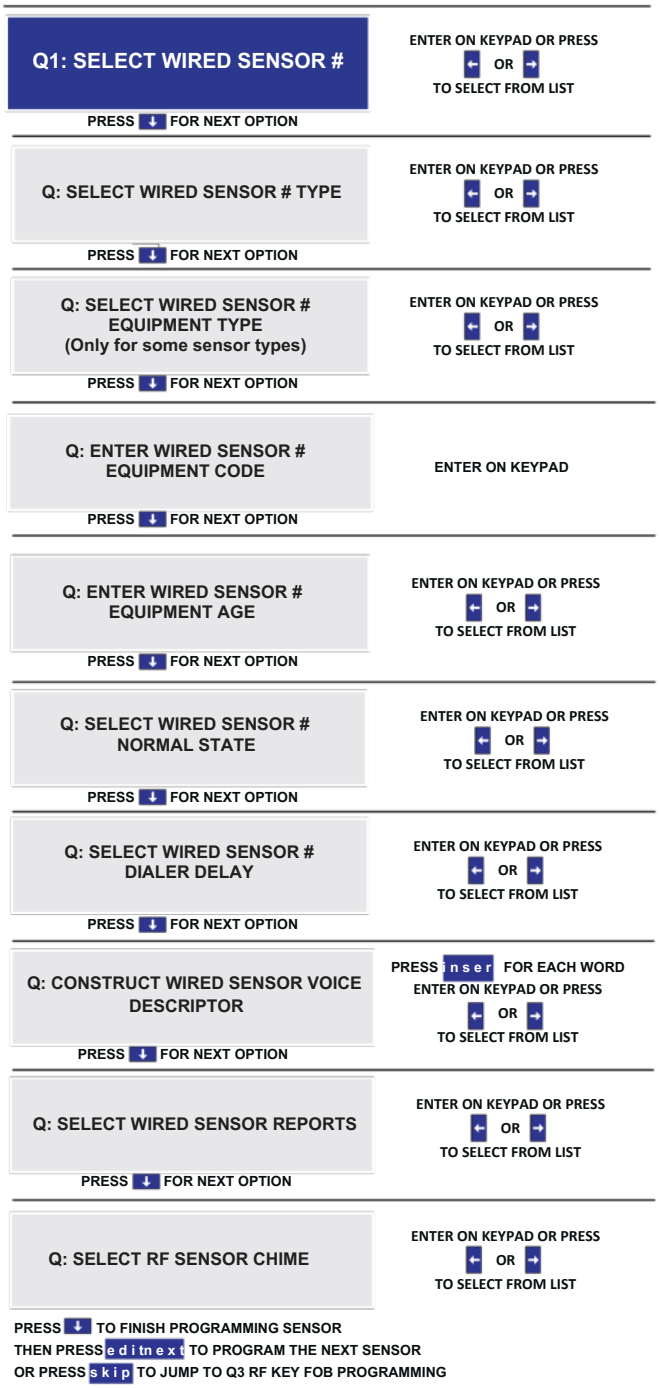
- Wired Sensor #1 = Reports as Sensor #49

See *Figure 47 Wired Sensor Programming Outline* 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:

- **Q2: Wired Sensor Number** . Select 1 or 2 .
  - **Q: Wired Sensor # Type** . Select the zone . For example, *(01) Exit/Entry 1*, *(02) Exit/Entry 2*, *(03) Perimeter*, and so on . See *"Zone Numbering"* on page 32 .
  - **Q: Wired Sensor # Equipment Type** . Some sensor types (zones) will prompt you to specify the equipment type. Other sensor types will not prompt you for an equipment type .
  - **Q: Wired Sensor # Equipment Code**. Select the four (4)-digit equipment code that corresponds to the appropriate sensor model . See *"Equipment Codes"* on page 37 .
  - **Q: Wired Sensor # Equipment Age** . Specify whether the sensor is a *(0) New* or *(1) Existing sensor* .
  - **Q: Wired Sensor # Normal State** . Choose between *(0) Not Used*, *(1) Closed*, *(2) Open*, *(3) End-Of-Line-Resistor* .
  - • **Q: Wired Sensor # Dialer Delay** . Specify whether to use delayed or instant digital communicator reports for the sensor. The delay time is set on the Dialer Abort screen.
- **Q: Wired Sensor # Voice Descriptor** . Specify the name assigned to the sensor that is announced if this feature is programmed .
- **Q: Wired Sensor # Reports** . Specify whether or not to send digital communicator reports for the sensor .

Q2: Wired Sensor Programming Outline

Figure 47 Wired Sensor Programming Outline



Scroll between op ons using the ← and → arrows. Move to the previous or next prompt by tapping the ↑ and ↓ arrows.

1. To program another sensor tap **Next** .
2. To exit programming, tap **Skip** then **End** and **Exit** . Upon exit, the panel takes several seconds to restart

Summary of Wired Sensor # 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 tapping the **Sum** button.

- While programming each wired sensor remember that the ← and → arrow bu ons step through each of the wired sensor numbers .
- To return to programming, tap **Edit Current** or **Edit Next** .
- Tap **Skip** to go to question number Q3 (RF Key Fob Programming) . See *"Wireless (RF) Key Fob Programming"* on page 44 .

Figure 48 Summary of Wired Sensor # Screen

NOTE: For the detailed steps of programming a wired sensor, see "Wired Sensor Programming Questions" on page 41 .

Wired Sensor Programming Questions

Q2: Select Wired Sensor # (1)

A hardwired loop 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, tap **Skip** to jump from question Q2 to question Q3. See *"Wireless (RF) Key Fob Programming"* on page 44 .

Q: Select Wired Sensor# Type

DEFAULT: (00) Unused

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 .

In the table below, a "YES" indicates the sensor type can be used for the wired sensor. An "NO" indicates the sensor type is not used.

Sensor	Types	RF Sensors	Wired
(00)	Unused	Yes Yes	Yes
(01)	Exit/Entry 1	Yes Yes	Yes Yes Yes
(02)	Exit/Entry 2		
(03)	Perimeter		

Sensor Types (Zone)	RF Sensors	Wired Sensors
(04) Interior Follower	Ye	Yes
(05) Day Zone	s	Yes
(06) 24-Hour Silent Alarm	Ye	Yes
(07) 24-Hour Audible Alarm	s	Yes
(08) 24-Hour Auxiliary Alarm	Ye	Yes
(09) 24-Hour Fire	s	No
(10) Interior with Delay	Ye	Yes
(14) 24-Hour Carbon Monoxide	s	No
	Ye	
	s	
	Ye	
	s	
	Ye	
	s	

Q: Select Wired Sensor# Equipment Type

DEFAULT: Varies by wired sensor type

NOTE: This question is only displayed when certain sensor types (zones) are selected .

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

The following sensor types require equipment type selection:

Sensor Type (Zone)	Equipment
(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 .

Q: Wired Sensor # Equipment Code (0-9999)

DEFAULT: (0)

Select the four (4)-digit equipment code that corresponds to the appropriate sensor model . See *"Equipment Codes"* on page 37 .

Q: Select Wired Sensor# Equipment Age (0 to 1)

DEFAULT: (0) New

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

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

Q: Select Wired Sensor# Normal State

DEFAULT: (0) Not Used

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 setting *(0) Not Used* 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

Q: Select Wired Sensor# Dialer Delay (0 to 1)

DEFAULT: (1) Enabled If this feature is enabled, the delay time must be set to a minimum of
30 seconds for ANSI/SIA compliance. To set the delay time, see "Q35: Abort Window Dialer Delay (0-2)" on page 52 .

Wired sensors can trigger the digital communicator immediately or after a delay.

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

Q: Construct Wired Sensor # Voice Descriptor

DEFAULT: No Default

NOTE: For a list of voice descriptors, see *"Voice Descriptors"* on page 35 .

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 (5) words are allowed.

1. Tap **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 three (3)-digit number.
3. Tap **Insert** again for the next word. Up to five (5) words are allowed .
4. To move between words, tap the **Fwd** and **Back** buttons.
5. To remove a word, tap Delete .

Q: Select Wired Sensor# Reports (0 to 1)

DEFAULT: (1) Enabled

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

- The default setting *(1) Enabled* activates reporting for this wired sensor number .
- To prevent reporting for this wired sensor number, select *(0) Disabled* .

Q: Select Wired Sensor# Chime (00 to 13)

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 setting (0) *Disabled* inactivates 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 (next page):

Sensor Chime

Cod	Sensor Chime
(0)	Disabled
(1)	Voice Only
(2)	Ding-Dong with Voice #1
(3)	Ding-Dong #2
(4)	Ding-Dong with Voice #2
(5)	Ding-Dong #1
(6)	Ding-Ding
(7)	Ding-Ding with Voice
(8)	Ding-Dong #3
(9)	Ding-Dong with Voice #3
(10)	Chime #1
(11)	Chime #1 with Voice #1
(12)	Chime #2
(13)	Chime #2 with Voice #2

Wireless (RF) Key Fob Programming

The Control Panel can be programmed with up to eight (8) RF key fobs .

Programming the fobs into the Control Panel involves selecting the sensor number for a particular device, setting or learning the 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) .

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

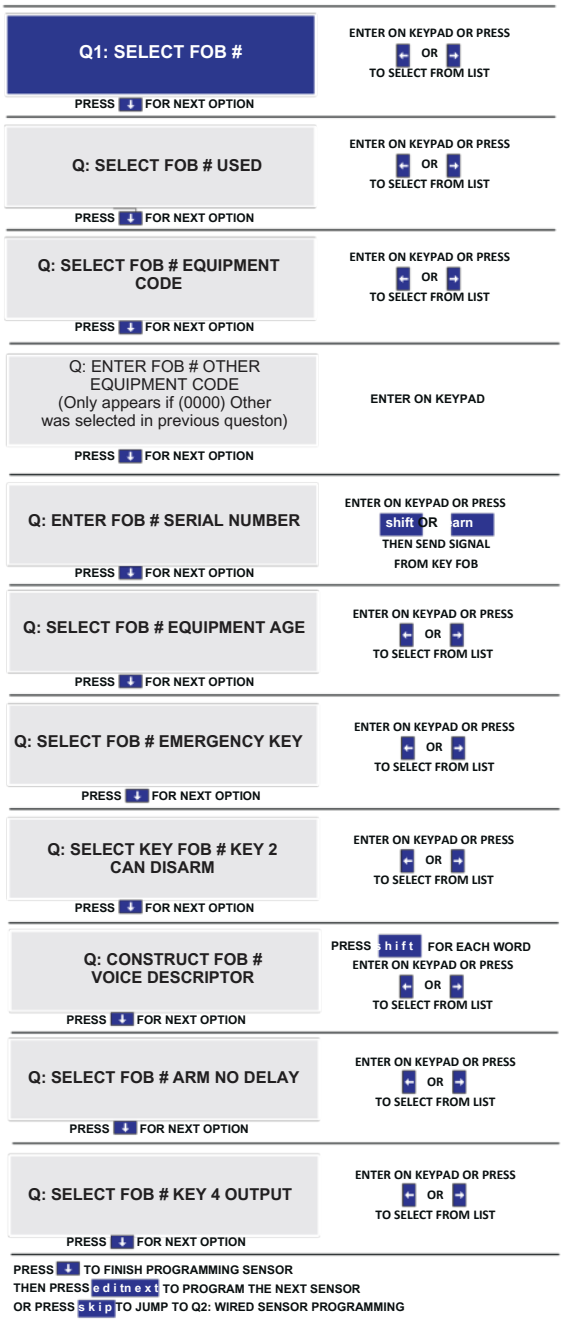
See *Figure 49 Key Fob Programming Outline* for the steps required to program fobs into the Control Panel. The options that can be set for each fob are:

- **Q3: Select Fob Number**. Select key fob number 1-8.
  - **Q: Select Fob # Used** . Select *(0) Disabled* or *(1) Enabled* .
  - **Q: Select Fob # Equipment Code**. Select the four (4)-digit equipment code that corresponds to the appropriate keyfob . See *"Equipment Codes"* on page 37 .
  - **Q: Enter Fob # Other Equipment Code** . Enter the special equipment code. This is only required when the **Key Fob # Equipment Code** is set to *(0000) Other* .
  - **Q: Enter Fob # Serial #** . Enter the serial number (typically a label on the keyfob or the keyfob packaging) or tap **Shift** then **Learn** to place the panel into learning mode . Then trip the keyfob to transmit the serial number to the panel .
  - **Q: Select Fob # Equipment Age** . Specify whether the sensor is a *(0) New* or *(1) Existing* sensor .
  - **Q: Select Fob # Emergency Key**. Choose the function of double-tapping the top buttons *(0) Disabled*, *(1) Auxiliary Alarm*, *(2) Audible Alarm*, *(3) Silent Panic*, or *(4) Fire* .
  - **Q: Select Fob # Key # Can Disarm** . Choose *(0) Disabled* or *(1) Enabled* to specify if the key fob is allowed to disarm the system .
  - **Q: Construct Fob # Voice Descriptor** . Construct the name assigned for the keyfob announcement . See *"Voice Descriptors"* on page 35 .
  - **Q: Select Fob # Arm No Delay** . Choose if key fob will arm the system instantly without an exit delay .
  - **Q: Select Fob # Key # Output**. Select an action for the key fob auxiliary button.

Key Fob Programming Outline

Q3: RF Key Fob Programming Outline

Figure 49 Key Fob Programming Outline



Scroll between op ons using the ← and → arrows. Move to the previous or next prompt by tapping the ↑ and ↓ arrows.

1. To program another sensor tap **Next** .
2. To exit programming, tap **Skip**, then **End**, and then **Exit** . Upon exit, the panel takes several seconds to restart .
3. TIP: Tap Skip to jump to question Q4. See "RF Keypad Programming Questions" on page 47 .

Summary of RF Key Fob # Screen

After setting all the options for a key fob, the **Summary of Fob #** screen is displayed . The screen can also be displayed for programmed keyfobs during keyfob program editing by tapping the **Sum** button.

- While programming each key fob remember that the ← and → arrow bu ons step through each of the key fob numbers .
- To return to programming, tap the **Edit Current** or **Edit Next** buttons.
- Tapping **Skip** goes to question number Q4 (RF Keypad Programming). See "Wireless (RF) Keypad Programming" on page 46 .

RF Key Fob Programming Questions

Q3: Select Fob # (1 to 8)

Up to eight (8) wireless four (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, tap Skip to jump from question Q3 to question Q4 (RF keypad programming). See "RF Keypad Programming Questions" on page 47 .

Q: Select Fob # Used (0 to 1)

DEFAULT: (0) Unused

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

- The default setting *(0) Unused* sets all key fobs as unused .
- To en able programming for this key fob, select *(1) Used* .

Q: Select Key Fob # Equipment Code (0-9999)

DEFAULT: (0000) Other

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

- The default setting is *(0000) Other* .
- Select *(0866) 2GIG 4-button Key Fob* remote for a 2GIG-KEY2 key fob remote .
- Select *(0577) Existing Key Fob* for an existing key fob remote.

NOTES:

- Only 2GIG 4-Button Key Fob Remotes are compatible with this system .
- When programming eSensors (Wireless & Keyfobs) the equipment code must match the sensor being installed .

Q: 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 four (4)-digit code that is assigned to the model of key fob being used .
- Enter the equipment code number for the key fob.

Q: 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, tap **Shift**, then tap **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 .

Q: Select Fob # Equipment Age (0 to 1)

DEFAULT: (0) New

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

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

Q: Select Fob # Emergency Key (0 to 4)

DEFAULT: (0) Disabled

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

- The default setting *(0) Disabled* inactivates the emergency function the fob #.
- To enable the emergency function for this fob, select one (1) of the four (4) options:
  - (0) Disabled
  - (1) Auxiliary Alarm
  - (2) Audible Alarm
  - (3) Silent Panic
  - (4) Fire

Q: Select Fob# Key # Can Disarm (0 to 1)

DEFAULT: (1) Enabled

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 buttons. 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 setting *(1) Enabled* allows the fob to disarm the system .
- To not allow the fob to disarm the system, select *(0) Disabled* .

Q: 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 (5) words are allowed.

1. Tap **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 three (3)-digit index number.
3. Tap **Insert** again for the next word. Up to five words are allowed .
4. To remove a word, tap **Delete** .

Q: Select Fob (#) Arm No Delay (0 to 1)

DEFAULT: (0) Disabled

Key fobs can be set to arm the Control Panel with or without an entry delay .

- The default setting *(0) Disabled* sets this fob to arm the system *with* an entry delay .
- To set this fob to arm the system without an entry delay, select *(1) Enabled* .

Wireless (RF) Keypad Programming

The Control Panel can be programmed with up to four (4) RF keypads or RF touch screen keypads .

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

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

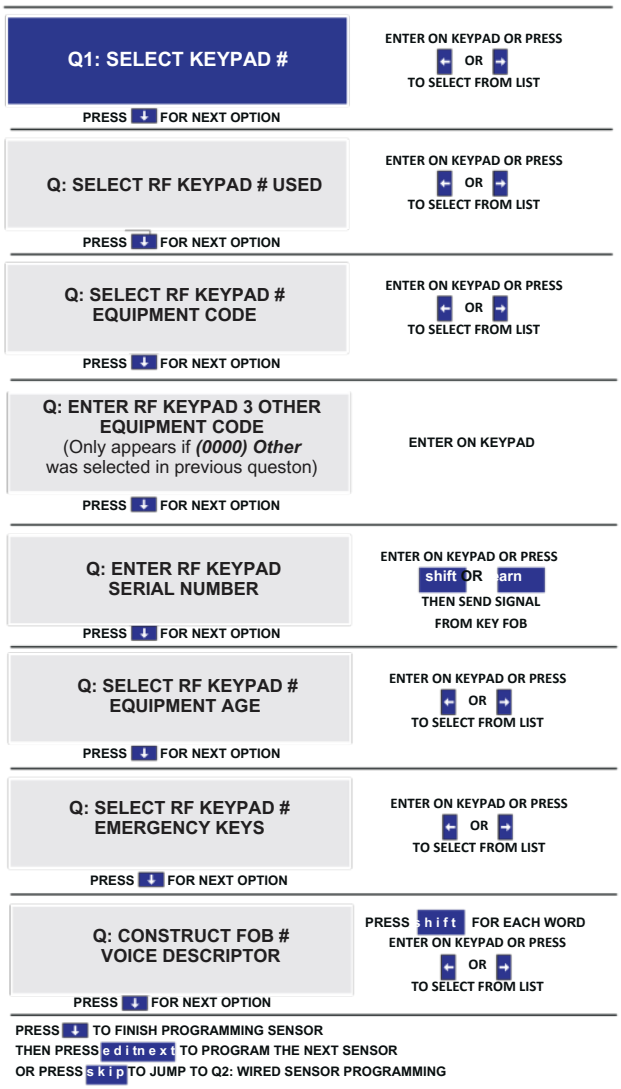
Keypad 4

- 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 keypad:
- **Select RF Keypad Number**. Select keypad number 1-4.
- **Select RF Keypad # Used** . Enable or disable the keypad .
- **Select RF Keypad # Equipment Code** . Select the equipment code for the keypad. See *"Equipment Codes"* on page 37 .
- **Select RF Keypad # Other Equipment Code** . If you selected *(0000) Other*, enter the special equipment code.
- **Select RF Keypad # Serial #** . Enter the serial number from the keypad or "learn" by sending a signal.
- **Select RF Keypad # Equipment Age** . Select *(0) New* or *(1) Existing* .
- **Select RF Keypad # Emergency Keys** . Select *(1) Enabled* or *(0) Disabled* .
- **Construct RF Keypad # Voice Descriptor** . Construct the name assigned for the keypad announcement . See *"Voice Descriptors"* on page 35 .

RF Keypad Programming Outline

Q4: RF Key Pad Programming Outline

Figure 50 Key Pad Programming Outline



Scroll between op ons using the ← and → arrows. Move to the previous or next prompt by tapping the ↑ and ↓ arrows.

1. To program another sensor tap **Next** .
2. To exit programming, tap **Skip**, then **End**, and then **Exit** . Upon exit, the panel takes several seconds to restart .
3. Tap **Skip** to jump to question Q5.

Summary of RF Keypad 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 tapping the **Sum** button.

- To return to programming, tap the **Edit Current** or **Edit Next** buttons.
- Tapping **Skip** goes to question Q5 (Control Panel programming) .
- To exit programming, tap **Skip** then **End** and **Exit** . Upon exit, the Control Panel takes several seconds to restart .

RF Keypad Programming Questions

Q4: Select RF Keypad # (1 to 4)

Up to four (4) wireless keypads can be programmed for use 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, tap **Skip** to jump from question Q4 to question Q5 (Exit Delay programming).

Q: Select RF Keypad (#) Used (0 to 1)

DEFAULT: (0) Unused

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

- The default setting *(0) Unused* sets all RF keypads as unused .
- To en able programming for this RF keypad, select *(1) Used* .

Q: Select RF Keypad (#) Equipment Code (0-9999)

DEFAULT: (0000) Other

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

- The default setting is *(0000) Other* .
- Select *(0867) 2GIG Wireless Keypad* .
- Select *(1059) 2GIG TS1 Wireless Touchscreen Keypad* .

NOTE: 2GIG Wireless Touch Screen Keypad is not intended for *UL 985: Household Burglar-Alarm System Units* installations.

Q: Enter RF Keypad # Other Equipment Code (0-9999)

DEFAULT: 0

NOTE: This question is only displayed if *(0000) Other* is selected as the RF keypad's equipment code.

IMPORTANT: The equipment code is a four (4)-digit code that is assigned to the appropriate keypad model being used .

- Enter the equipment code number for the RF Keypad .

Q: Enter RF Keypad# Serial Number (7 Digits)

DEFAULT: 0000000 or RF Keypad (#) Keypad ID (read-only) Serial numbers for standard wireless keypads can be manually entered or learned from the keypad . For 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 Wireless Keypad that was logged for the keypad being programmed . Tap the **Shift** button to access alpha characters .
- For automatic entry, tap **Shift** and then **Learn** . This places the Control Panel into learning mode . When you trigger the keypad the sensor for the keypad being programmed, it sends its serial number to the Control Panel .

Wireless Touch Screen Keypads (only available in some regions):

- For Wireless Touch Screen Keypads tap **Learn** . The Control Panel displays the "*Pair with TS-1. Initiating learning process*". Tap the keypad's **Pair with Panel** button. When complete, the keypad and the Control Panel display "The learn operation succeeded" message .
- The Control Panel displays "RF Keypad (#1-4)" to identify the keypad .

- The keypad displays “Network ID: xxxx” which is its unique serial number .
- Tap **OK** on both the Control Panel and the Wireless
- Touch Screen Keypad to continue.

NOTE: The 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.

Q: Select RF Keypad# Equipment Age (0 to 1)

DEFAULT: (0) New

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 *(0) New* .
- If this RF Keypad is already installed, select *(1) Existing* .

Q: Select RF Keypad# Emergency Keys (0 to 1)

NOTE: This step is not displayed for Wireless Touch Screen keypads .

DEFAULT: (1) Enabled

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

- The default *(1) Enabled* enables this RF Keypad’s emergency keys .
- To disable this RF Keypad’s emergency keys, select *(0) Disabled*, 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 *Q16: Police Emergency Key (0-2)* is set to *(2) Silent Panic* . See *“Q16: Police Emergency Key”* on page 50 .

IMPORTANT: To ensure that a signal is sent, instruct the end user to tap and hold down the emergency key on the keypad until its indicator light illuminates .

Q: 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. Tap **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. Tap **Insert** again for the next word. Up to five words are allowed.
4. To remove a word, tap **Delete** .

Control Panel Programming

Programming Questions

Q1: RF Sensor Programming

To learn about RF sensor programming, see "Wireless (RF) Sensor Programming" on page 38 .

Q2: Wired Sensor Programming

To learn about wired sensor programming, see "Wired Sensor Programming" on page 41 .

Q3: RF Key Fob Programming

To learn about RF key fob programming, see "Wireless (RF) Keyfob Programming" on page 44 .

Q4: RF Keypad Programming

To learn about RF keypad programming, see "Wireless (RF) Keypad Programming" on page 46 .

Q5: Exit Delay, in Seconds (45-120)

DEFAULT: 60 seconds

The default minimum setting of 60 seconds is required for ANSI/SIA CP-01 compliance. The delay time can be increased without affecting compliance.

The exit delay timer can be set to a value between 45 to 120 seconds .

- The default setting *60* sets the exit delay to 60 seconds.
- To change the exit delay timer, enter a value between *45-120* seconds .

Q6: Entry Delay 1, in Seconds (30-240)

DEFAULT: 30 seconds

The default minimum setting of 30 seconds is required for ANSI/SIA CP-01 compliance.

NOTE: *For compliance with ANSI/SIA CP-01, the total number of minutes for the combination of Q6: Entry Delay 1 and Q35: Abort Window Dialer Delay cannot exceed one (1) minute.*

The timer for Entry Delay 1 can be set to a value between 30 to 240 seconds.

- The default setting *30* sets the timer to 30 seconds.
- To change the setting, enter a value between *30-240* seconds .

Q7: Entry Delay 2, in Seconds (30-240)

DEFAULT: 45 seconds

The default minimum setting of 45 seconds is required for ANSI/SIA CP-01 compliance.

NOTE: *For compliance with ANSI/SIA CP-01, the total number of minutes for the combination of Q7: and Q35:*

Abort Window Dialer Delay cannot exceed one (1) minute .

The ti mer for Entry Delay 1 can be set to a value between 30-240 seconds:

- The default setting of **45** sets the timer to 45 seconds.
- To change the timer setting, enter a value between *30-240* seconds .

Q13: 2-Way Voice (0-2)

DEFAULT: (1) Stay On Line

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

- The *(1) Stay On Line* allows two (2)-way audio over the cell radio .
- Selecting *(2) Stay On Line, Including Fire and CO Alarms* allows 2-way audio over cell radio during fire and CO alarms.
- To turn off the two (2)-way audio feature OFF, select *(0) Disabled*.

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 (1) minute (or three (3) minutes if using the cell radio connection), the call is terminated. Once the operator presses a command option, the beeps will stop and a five (5)-minute audio session will start (or three (3)-minute audio session if using the cell radio connection).

When two (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 two (2) time s every 15 seconds to indicate that time is running out.

- Tap **1** to enable Talk mode one (1)-way communication from the Central Station to the premises and allows the operator to talk .
- Tap **2** to enable VOX mode two (2)-way communications from the Central Station to the premises.
- Tap **3** to enable Listen mode one (1)-way communication from the premises to the Central Station.
- Tap **7** to extend the session five (5) minutes without changing the mode of operation.
- Tap **9** to end the audio session an terminate the call .

Q14: Silent Panic/Burglary Listen Only

DEFAULT: (1) Enabled

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

- The default setting *(1) Enabled* allows the Central Station to use listen-in over audio after a silent panic, silent burglary, or duress alarm .
- This option is permanently set and cannot be disabled.

Q16: Police Emergency Key (0-2)

DEFAULT: (1) Audible The Control Panel's panic emergency button action can be programmed. The panic emergency button is displayed by pressing the button.

- The default *(1) Audible* allows the panic emergency button to sound an audible alarm.
- For silent activation, select *(2) Silent Panic* .
- To not display the panic emergency button, select *(0) Disabled* .

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

Q17: Fire Emergency Key (0-1)

DEFAULT: (1) Audible

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 setting *(1) Audible* allows the fire emergency button to sound an audible alarm.
- To disable and not display the fire emergency button, select *(0) Disabled* .

Q18: Emergency Key (0-1)

DEFAULT: (1) Audible

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

- The default setting *(1) Audible* sounds an audible alarm when the button is pressed.

To disable this button, select (0) *Disabled* .

NOTE: If all three (3) Emergency buttons are disabled, the Control Panel displays a message when its **Emergency** button is pressed.

Q19: Quick Arming (0-1)

DEFAULT: (1) Enabled

Quick arming allows the subscriber to arm the system without having to enter a user code . If Open/Close Reports are being sent, quick arming is reported as *User 0* .

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

Q20: Swinger Shutdown Count (1-6)

DEFAULT: (2) Two Trips *The minimum setting of (2) Two Trips is required for ANSI/ SIA CP-01 compliance. This default setting can be increased to three or more trips without affecting ANSI/SIA CP-01 compliance* .

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 setting **(2) Two-Trips** sets the swinger shutdown count at two (2) trips .
- To change this count, select (1-6).

Q21: Siren Supervision Time (0-3)

DEFAULT: (0) Disabled

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 setting *(0) Disabled* turns external sounder supervision OFF .

To supervise the external sounder wiring, select:

- *(1) 15 Seconds*
- *(2) 30 Seconds*
- *(3) 45 Seconds*

Q22: CS Lack of Usage Notification Time (0-255)

DEFAULT: 7 days

If this system has not been armed for a specified number of days, inactivity reports can be sent to the Central Station.

- The default setting is **7** days .
- To change the duration, select a value between 1 to 255 days .
- To turn this feature OFF, select **0** days .

Q23: Radio Modem Network Failure Time (0-255)

DEFAULT: 30 Minutes

NOTE: LTE (Cellular) Radio Module must be installed to use this function.

If the optional LTE (Cellular) Radio Module loses its cellular connection, specify the amount of down time that must pass before triggering a trouble condition.

- The default setting is **30** minutes .
- To specify a different amount of time, enter a value between one (**1**) to **255** minutes .
- To turn this feature OFF, select **0** minutes .

NOTE: After cellular service is restored for five (5) minutes, the trouble condition automatically clears.

Q24: Radio Modem Network Failure Causes Trouble (0-1)

DEFAULT: (1) Enabled

NOTE: LTE (Cellular) Radio Module must be installed to use this function.

Selects whether the Control Panel will sound and display trouble if the optional LTE (Cellular) 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) Enabled* allows radio module failure trouble indications.
- To turn off radio module failure trouble indications, select *(0) Disabled* .

Q25: Radio Modem Network Failure Reports (0-1)

DEFAULT: (1) Enabled

NOTE: LTE (Cellular) Radio Module must be installed to use this function.

If the optional LTE (Cellular) Radio Module loses its cellular connection, the Control Panel can report the fault and restore communication.

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

Q26: Auto Stay (0-1)

DEFAULT: (1) Enabled

This feature must be enabled for ANSI/SIA CP-01 compliance .

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 setting is *(1) Enabled* which turns the auto-stay feature ON .
- To turn this feature off, select *(0) Disabled* .

NOTE: If the system is remotely armed in Away mode using a key fob, mobile app, or computer, the auto-stay feature will not switch the system to Stay mode .

Q27: Exit Delay Restart (0-1)

DEFAULT: (1) Enabled

This feature must be enabled for ANSI/SIA CP-01 compliance.

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 ex it/entry sensor will not extend the Exit Delay .

- The default setting *(1) Enabled* turns this feature ON .
- To turn this feature OFF, select *(0) Disabled* .

Q28: Quick Exit (0-1)

DEFAULT: (1) Enabled

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. Tap **Quick Exit** while the system is armed when the user wants 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 setting *(1) Enabled* turns this feature ON .
- To turn this feature OFF, select *(0) Disabled* .

Q29: Periodic Test, in Days (0-255)

DEFAULT: 30 Days

Recurring test reports can be automatically sent to the Central Station at a specified number of days.

- The default setting is **30**. This sends an automatic test report to the Central Station every 30 days.
- To change the number of days, enter a value between one (1) to 255 days .
- To disable this feature, select *(0) Disabled* .

Q31: Cancel Time, in Minutes (5-255)

DEFAULT: 5 minutes

The minimum setting for ANSI/SIA CP-01 compliance is 5 minutes. The number of minutes can be increased without affecting ANSI/ SIA CP-01 compliance.

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

- The default setting for the cancellation time is five (5) minutes .
- To ex tend this time interval, enter a value between six (6) to 254 minutes .
- To always send a cancel report when the system is disarmed enter 255.

NOTE: See Q32: Cancel Display for information on displaying when a cancel report is sent .

Q32: Cancel Display (0-1)

DEFAULT: (1) Enabled

This feature must be enabled for ANSI/SIA CP-01 compliance.

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 setting *(1) Enabled* enables the cancel display feature .
- To turn off the cancel display feature, select (0) *Disabled* .

NOTE: See Q31: Cancel Time, in Minutes for information on setting the cancel report trigger time.

Q33: Cross Sensor 47-48 (0-1)

DEFAULT: (0) Disabled

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 (47or 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 setting *(0) Disabled* turns the cross sensor feature OFF .
- To turn the cross sensor feature ON, select *(1) Enabled* .

NOTE: See Q34: Cross Sensor Timeout, in Seconds for information on setting the cross sensor timeout.

Q34: 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 Q33: Cross Sensor 47-48 for this feature to function.

- The default setting for the cross sensor timeout is 10 seconds .
- To change the timeout duration, enter a valued between 11 to 120 seconds.

Q35: Abort Window Dialer Delay (0-2)

DEFAULT: (1) 30 Seconds

The default minimum setting for ANSI/SIA CP-01 compliance is 30 seconds .

The delay time can be increased to 45 seconds without affecting ANSI/SIA CP-01 compliance only if the combination of Q35 and Q6 or Q7 does not exceed one (1) minute .

NOTE: The dialer delay can be disabled for each sensor without affecting ANSI/SIA CP-01 compliance. See *"RF Sensor Programming Questions"* on page 39 .

The system delays calling the Central Station to allow the user enough time to cancel a false alarm before it is reported.

- The default setting is *(1) 30 Seconds* .
- To change the setting, select *(0) 15 Seconds* or *(2) 45 Seconds* .

Q36: Burglary Bell Cutoff (0 to 4)

DEFAULT: (0) 4 Minutes

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

- The default setting for the burglary bell cutoff is *(0) 4 Minutes* .
- To change the cutoff time, select an option below.

Burglary Bell Cutoff Time
(0) 4 Minutes (1) 8 Minutes (2) 12 Minutes (3) 16 Minutes (4) Unlimited

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) .

Q37: Fire Bell Cutoff (0-4)

DEFAULT: (0) 4 Minutes

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

- The default setting *(0) 4 Minutes* sets the burglary bell cutoff to four (4) minutes .
- To change the fire bell cutoff time, select an option below:

Fire Bell Cutoff Time
(0) 4 Minutes (1) 8 Minutes (2) 12 Minutes (3) 16 Minutes (4) Unlimited

Q38: Time to Detect AC Loss, in Minutes (0-30)

DEFAULT: (10) 10 Minutes

When AC power is lost, they system displays a power loss alert ⚠ after the specified time length. When power is restored, the alert is automatically cleared after one (1) minute.

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 *Q39: Random AC Loss Report Time* .

NOTE: The Control Panel's AC Power Icon immediately displays the power status . See *"AC Power ON/OFF"* on page 25 .

Q39: Random AC Loss Report Time (0-1)

DEFAULT: (1) Enabled

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 wide-spread power outage affecting many Control Panels at once. The random AC power status report timer is triggered based on the time set by Q38: Random AC Loss Report Time.

- The default setting *(1) Enabled* turns this feature ON .
- To turn this feature OFF, select *(0) Disabled* .

NOTE: The *installer code* must be unique from the *master user code* and all other user codes .

Q43: Installer Code (4 or 6 Digits)

DEFAULT: 1561

The *installer code* is a unique code that installation technicians use to access the Installer Toolbox on the Control Panel .

- The default installer code is **1561** .
- To change the installer code, enter a new four (4)- digit code.

IMPORTANT: If you change the installer code, always write it down so that you can access the system later .

Q44: Lock Installer Programming (0-2)

DEFAULT: (0) Disabled

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 (3) 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 setting *(0) Disabled* selects unlimited full access to programming (no lockout) .

To deny access to programming after 48 hours, select *(1) No Access to Programming* .

If you select *(2) Limited Access to Programming* the installer will be able to view, but not change the following attributes after the system has run for 48 hours, 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 download by remotely setting this question to (0) or (2). Setting the option to (0) or (2) will restart the 48 hour lockout timer.

Q45: Lock Default Programming (0-2)

DEFAULT: (0) Default All

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 *(0) Default All* 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) Default All Except CSID, Account/ Phone, Lockouts* .
- To deny hard and soft resetting of the Control Panel, select *(2) Default None* .

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.

Q46: Trouble Doesn't Sound at Night (0-1)

DEFAULT: (1) Enabled NOTE: For *UL 985: Household Fire Warning System Units* installations, this setting must be set to *(0) Disabled*

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 10 PM to 9 AM . 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 9 AM .

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

- The default setting *(1) Enabled* suppresses trouble beeps from 10 PM to 9 AM .
- To allow trouble beeps at any time, select *(0) Disabled* .

Q47: Trouble Resound After Hold Off (0-7)

DEFAULT: (0) Disabled

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 *(0) Disabled* in this grade of installation.

- The default setting *(0) Disabled* allows trouble beeps for CO and fire sensors to re-sound every four (4) hours after being acknowledged
- To delay re-sounding trouble beeps for CO and Fire sensors, select (1-7) days

Q49: Programming Mode Entry Reports to CS (0-1)

DEFAULT: (0) Disabled

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

- The default setting *(0) Disabled* prevents reporting programming mode entry and exit .
- To report programming mode entry and exit, select *(1) Enabled* .

NOTE: This report can only be sent through the telephone dialer . It is not supported through the LTE (Cellular) Radio Module .

Q50: Trouble Reports to CS (0-1)

DEFAULT: (1) Enabled

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

- The default setting *(1) Enabled* allows reporting sensor trouble conditions.
- To not report sensor trouble conditions, select *(0) Disabled* .

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

Q51: Manual Bypass Reports to CS (0-1)

DEFAULT: (0) Disabled

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

- The default setting *(0) Disabled* prevents sending manual bypass reports .
- To allow sending manual bypass reports, select *(1) Enabled* .

Q52: AC Loss Reports to CS (0-1)

DEFAULT: (1) Enabled

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

- The default setting *(1) Enabled* allows AC power loss reports .
- To turn off AC power loss reports, select *(0) Disabled* .

NOTE: The AC power will have to be absent from the Control Panel for the time set by programming question Q38 before the AC power loss trouble alert ⚠ is displayed (the default is 10 minutes). If programming question Q39 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 .

Q53: System Low Battery Reports to CS (0-1)

DEFAULT: (1) Enabled

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

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

Q54: RF Low Battery Reports to CS (0-1)

DEFAULT: (1) Enabled

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 setting is *(1) Enabled* and allows the system to send low battery reports for sensors.
- To turn this feature OFF, select *(0) Disabled* .

Q55: Opening Reports to CS (0-1)

DEFAULT: (0) Disabled

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 setting *(0) Disabled* prevents opening reports .
- To allow opening reports, select *(1) Enabled* .

Q56: Closing Reports to CS (0-1)

DEFAULT: (0) Disabled 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 setting *(0) Disabled* prevents closing reports .
- To allow closing reports, select *(1) Enabled* .

Q57: Alarm Restore Reports to CS (0-1)

DEFAULT: (0) Disabled

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 st ate) 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 setting *(0) Disabled* prevents alarm restore reports .
- To allow alarm restore reports, select *(1) Enabled* .

Q58: Trouble Restore Reports to CS (0-1)

DEFAULT: (1) Enabled

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

- The default setting *(1) Enabled* allows the system to send reports when trouble conditions are restored.
- To turn this feature OFF, select *(0) Disabled* .

Q59: Bypass Restore Reports to CS (0-1)

DEFAULT: (0) Disabled Bypass restore reports can be sent to the Central Station when
any sensor that was force bypassed or manually bypassed gets restored .

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

Q60: AC Restore Reports to CS (0-1)

DEFAULT: (1) Enabled

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 setting *(1) Enabled* allows AC power restore reports .
- To turn off AC power restore reports, select *(0) Disabled* .

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 Q39 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.

Q61: System Low Battery Restore Reports to CS (0-1)

DEFAULT: (1) Enabled

When a low battery condition is restored on the Control Panel, the system can send a restore report to the Central Station.

- The default setting *(1) Enabled* allows the system to send reports when low battery conditions are restored.
- To turn this feature OFF, select *(0) Disabled* .

Q62: RF Low Battery Restore Reports to CS (0-1)

DEFAULT: (1) Enabled

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 setting *(1) Enabled* allows sensor low battery restore reports .
- To turn off sensor low battery restore reports, select *(0) Disabled* .

Q64: Smart Test Reports

DEFAULT: (0) Disabled 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 setting *(0) Disabled* prevents smart test reports .
- To allow smart test reports, select *(1) Enabled* .

Q65: RF Jam Causes Trouble (0-1)

DEFAULT: (0) Disabled 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 Q50.

- The default setting *(0) Disabled* turns RF jam detection OFF .
- To turn on RF jam detection, select *(1) Enabled* .

Q66: Daylight Saving (0-1)

DEFAULT: (1) Enabled

The Control Panel can adjust its displayed clock and internal clock for Daylight Saving Time (DST) . If the cell radio is used, the time will be automatically adjusted regardless of this setting. The system default is set to use the current start (March) and end (November) dates for the United States . The DST start and end dates can be adjusted as follows:

- The default setting *(1) Enabled* turns ON the DST clock for the system .
- To turn off the DST clock, select (0) *Disabled* .

NOTE: If enabled, respond to programming questions Q67, Q68, Q69, and Q70 to modify the start and stop values for DST.

Q67: Daylight Saving Start Month (01-12)

DEFAULT: (03) March

- The default DST start month is set to *(03) March* .
- To change the start month for your country, region, or state, enter the desired month, *(01-12) January - December* .

Q68: Daylight Saving Start Monday (1-7)

DEFAULT: (2) 2nd Sunday

- 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 .

Q69: Daylight Saving End Month (01-12)

DEFAULT: (11) November

- The default *(11) November* defines the daylight saving end month .
- To change the end month for your country, region, or state, enter the desired month, (01-12) January - December.

Q70: Daylight Saving End Sunday (1-7)

DEFAULT: (1) 1st Sunday

- The default setting *(1) 1st Sunday* defines 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 .

Q71: System Tamper Causes Trouble (0- 1)

DEFAULT: (1) Enabled

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 (0) *Disabled* .

Q72: Quick Bypass (0-1)

DEFAULT: (0) Disabled

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 setting *(0) Disabled* requires entering a code to bypass sensors .
- To allow bypassing sensors without a code, select *(1) Enabled* .

Q73: Disarming Keyfob After Alarm (Alert) (0-1)

DEFAULT: (0) Disabled

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 setting *(0) Disabled* will not cause a unique sound when disarming after an alarm.
- To cause unique sound when disarming after an alarm, select *(1) Enabled* .

Q74: Keyfob Arm/Disarm Confirmation (0-1)

DEFAULT: (0) Disabled

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 Q73 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 setting *(0) Disabled* will not cause a unique sound when controlled by a key fob .
- To cause a unique sound when controlled by a key fob, select *(1) Enabled* .

Q75: Auto UnBypass for Manual Bypass (0-1)

DEFAULT: (1) Enabled

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 setting *(1) Enabled* 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 (0) *Disabled* .

Q76: Force Bypass Reports (0-1)

DEFAULT: (0) Disabled

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 setting *(0) Disabled* prevents reporting forced bypassed sensors .
- To report forced bypassed sensors, select *(1) Enabled* .

Q77: Event Log (0-3)

DEFAULT: (3) All Events

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 setting *(3) All Events* records all events in the event log .
- To choose different options, select one of these filters:

Event Log Filters
(0) Disabled (no events logged)
(1) All Events Except Open, Closing, and Bypass
(2) All Events Except Open and Closing
(3) All Events

Q79: Z-Wave Feature (0-3)

DEFAULT: (3) (3) Enabled on Panel; Rules Disabled, Remote Access Enabled

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

- The default setting *(3) Enabled on Panel; Rules Disabled, Remote Access Enabled* 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 *(0) Disabled and Hidden* .
- To show the **Services** button but disable it from use, select *(1) Disabled but Visible* .
- To show the **Services** button and disable off- site remote control, select *(2) Enabled on Panel, Remote Access Disabled* .

Q80: Z-Wave Switches Feature (0 to 1)

DEFAULT: (1) Enabled

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

NOTE: This programming question only functions if Q79: Z- Wave Feature is set to (2) or (3) .

- The default setting *(1) Enabled* shows the **Switches** button.
- To hide the Switches button, select *(0) Disabled* .

Q81: Z-Wave Thermostats Feature (0 to 1)

DEFAULT: (1) Enabled

Show or hide the Home Service's Thermostats button on the Control Panel .

NOTE: This programming question only functions if Q79: Z- Wave Feature is set to (2) or (3) .

- The default setting *(1) Enabled* shows the **Thermostats** button.
- To hide the Thermostats button, select *(0) Disabled* .

Q82: Z-Wave Door Locks Feature (0-1)

DEFAULT: (1) Enabled

Display of the Home Service's **Door Locks** button can be enabled or disabled. This programming question only functions if the Z-Wave feature enable question *Q79: Z- Wave Feature* is set to (2) or (3) .

- The default setting *(1) Enabled* shows the Door Locks button.
- To hide the Door Locks button, select *(0) Disabled* .

Q83: Select Temperature Display Units (0-1)

DEFAULT: (0) Degrees Fahrenheit 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 Q79: Z- Wave Feature is set to (2) or (3) and Q81: Z-Wave Thermostats Feature is set to (1) *Enabled* .

- The default setting is *(0) Degrees Fahrenheit* .
- To change the setting, select *(1) Celsius* .

NOTE: The setting you select here also changes the display units shown on the weather forecast on the Control Panel's Home screen .

Q84: Services Require Master Code (0 to 1)

DEFAULT: (0) Disabled

The **Services** button can be configured to require the use of the master user code to access Services .

- The default setting *(0) Disabled* overrides the requirement to enter a master user code to access the **Services** menu .
- To require the use of the master user code to access the **Services** menu, select *(1) Enabled.*

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 .

Q85: Master User Access to Z-Wave Toolbox (0-1)

DEFAULT: (0) Disabled 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 setting (0) *Disabled* requires users to enter 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 (1) *Enabled* .

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

Q86: Disable Siren After Two-Way Audio (0-1)

DEFAULT: (0) Disabled

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 setting (0) *Disabled* will cause the siren to resume after two-way audio (if the bell cut off timer has not expired).
- (1) *Enabled* will cause the siren to shut off after a two-way audio session .

Q87: Keyfob/Remote Arming Mode on System Not Ready (0-2)

DEFAULT: (0) Auto Bypass with Zone Participation on Restore

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

- The default setting *(0) Disabled* 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 *(1) Auto-Bypass* .
- To prevent arming remotely when any sensor is open, select *(2) Arm Only When Ready* .

Q89: Allow Backlight Always On (Demo Mode) (0-1)

NOTE: May cause ghost/image retention.

DEFAULT: (0) Disabled

When set to *(1) Enabled* the customer can 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* .

Q90: Energy Feature (0 to 1)

DEFAULT: (0) Disabled and Hidden

Select *(1) Disabled but Visible* to show but not activate the energy features. You can also select *(2) Enabled* to turn the energy feature ON .

Q91: Radio Modem Supplier

DEFAULT: (0) No Radio Modem Supplier

NOTE: If you enable *Q44: Select Lock Installer Programming*, you will not be able to change this setting.

NOTE: For compliance with UL 1610, **Q91: Select Radio Modem Supplier (0 to 5)** must be set to *(1) Radio Modem Supplier 1.*

Select the option that corresponds to the appropriate supplier.

Options include:

Option	Supplier
Supplier (1) Radio Modem	This is the default setting.
Supplier 1 (2) Radio Modem	Alarm.com
Supplier 2 (3) Radio Modem	
Supplier 3 (4) Radio Modem	
Supplier 4 (5) Radio Modem	
Supplier 5 (6) Radio Modem	SecureNet
Supplier 6	

Q92: Select Network Device (0 to 1)

DEFAULT: (0) None

When enabled, the *(1) Go!Bridge* option provides the installer with the following questions to program the Go!Bridge IP Communicator settings into the Control Panel

Q: Network Device ID (read only)

Tap Learn . Then go to the Go!Bridge device and tap the Learn button. For details, see the Go!Bridge IP Communicator Installation Instructions.

Q: Select Configuration Source

DEFAULT: (0) DHCP

Select between *(1) Static* or *(2) DHCP* (Dynamic Host Configuration Protocol). The default setting is *(0) DHCP* and is the most common selection. The other option is *(1) Static* and requires entry of a Device IP Address, Gateway IP Address, and Subnet Mask .

Q: Enter Device IP Address

DEFAULT: 000.000.000.000

NOTE: This question only requires an answer if you selected *(1) Static in Q: Select Configuration Source.*

Use the numeric keypad to enter the IP Address for the Go!Bridge IP Communicator .

Q: Enter the Gateway IP Address

DEFAULT: 000.000.000.000

NOTE: This question only requires an answer if you selected *(1) Static* in *Q: Select Configuration Source.*

Use the numeric keypad to enter the IP Address for the access point to the external network . Typically, this is the IP Address of the local network router .

Q: Enter the Subnet Mask

DEFAULT: 000.000.000.000

NOTE: This question only requires an answer if you selected *(1) Static* in *Q: Select Configuration Source.*

Use the numeric keypad to enter the IP Address for the subnet mask for the network .

Q: Select Port # (1 to 8)

DEFAULT: (1) Port 1

NOTE: Typically, you will skip this question unless additional programming is required.

Select the port number for the backend server. After configuring the required port, tap Next on the Control Panel.

- *(1) Port 1*
- *(2) Port 2*
- *(3) Port 3*
- *(4) Port 4*
- *(5) Port 5*
- *(6) Port 6*
- *(7) Port 7*
- *(8) Port 8*

Q: Select Used (0 to 1)

DEFAULT: (0) Disabled

NOTE: Typically, you will skip this question unless additional programming is required.

It is re commended that you always select the default setting (0) *Disabled* . If you choose (1) *Enabled*, you will be prompted to enter the port value .

Q: Enter Port Value (0 to 65535)

DEFAULT: (0) Disabled

NOTE: Typically, you will skip this question unless additional programming is required.

It is re commended that you always select the default setting *(0) Disabled* . If you select *(1) Enabled* in **Q: Select Used (0 to 1)**, use the numeric keypad to enter the port value .

NOTE: The *port value* is the port number for Transmission Control Protocol (TCP) communication. Port numbers can range from 0 to 65535 .

Q: Enter Port Forward IP Address

DEFAULT: 000.000.000.000

Typically, you will simply accept the default IP Address value that appears .

Q93: Enter Broadband Network Failure Time (1-255)

DEFAULT: 30 Minutes

NOTE: The Go!Bridge IP Communicator must be installed to use this function.

This option sets the amount of time required for triggering a trouble condition if the system detects that the broadband network has lost its connection. After the connection has been restored, the trouble condition clears.

- The default failure detection setting is *30* minutes .
- To choose a different failure detection time, enter the number of minutes between *1-255* .

Q94: Select Broadband Network Failure Causes Trouble (0 to 1)

DEFAULT: (1) Enabled

NOTE: The Go!Bridge IP Communicator must be installed to use this function.

This option specifies whether or not the Control Panel will sound and display a trouble alert if the Go!Bridge IP Communicator loses its broadband connection. The trouble alert can be silenced by the user at the Control Panel (broadband trouble is logged regardless of this setting). When the broadband connection is re stored, the trouble indications automatically clear.

- The default setting *(1) Enabled* allows Go!Bridge network failure trouble indications.
- To turn off Go!Bridge trouble indications, select *(0) Disabled* .

Q95: Select Broadband Network Failure Reports (0 to 1)

DEFAULT: (1) Enabled

NOTE: The Go!Bridge IP Communicator must be installed to use this function.

If the Go! Bridge IP Communicator loses its broadband connection, the Control Panel can report the fault.

- The default setting is *(1) Enabled* which turns broadband network failure reporting ON.
- To turn broadband network failure reporting OFF, select *(0) Disabled* .

Q96: Select Send Report 3 Times on Panel Tamper (0 to 1)

DEFAULT: (1) Enabled

NOTE: For compliance with UL 1610, this question must be set to (1) disabled .

This option configures the system to transmit three (3) reports to the Central Station when the system detects that the panel's backplate is in a tamper condition.

- **(1) Enabled** . The system transmits three (3) reports to the Central Station.
- **(0) Disabled** . The system only transmits a single report to the Central Station.

Q97: Select Sound on Normal Closing Acknowledgment (0 to 1)

DEFAULT: (1) Enabled

Configures the system to emit a sound when the system acknowledges that an open sensor has closed (i .e ., returned to its normal state) .

- **(1) Enabled** . The system emits a sound on sensor closing .
- **(0) Disabled**. No sound is emitted on sensor closing.

NOTE: For compliance with UL 1610, this question must be set to *(1) Enabled.* In addition, **Q91** must be set to *(1) Radio Modem Supplier 1* .

Q98: Select enable 6-digit PIN (0-1)

DEFAULT: (0) Disabled

Configures the system to use 6-digit pin codes.

(0) disabled (4-digit pin codes)

(1) enabled (6-digit pin codes)

Note: Changing Q98 to 1 changes the length of all Pin Codes (User, Duress, Master, and Installer Codes)

Note: If changing from 4 to 6-digit pin codes, all existing codes will be appended with "11". The default 6-digit Installer pin code is 156111 and Master 111111 .

NOTE: When changing from 6 to 4-digit pin codes all pin codes will be truncated, removing the last 2 digits. If this action causes conflicts, the system will prompt to resolve the conflicts. Conflicts can be resolved by defaulting the user codes or changing the existing pin codes so that no first four digits of the pin codes are the same .

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, tap **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.

Figure 51 Summary of System Configuration Screen

3. To save the programming changes, be sure the Save Changes option is checked. To exit without saving programming changes un-check the **Save Changes** option (for verification, an additional confirmation screen appears) . Tap **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:

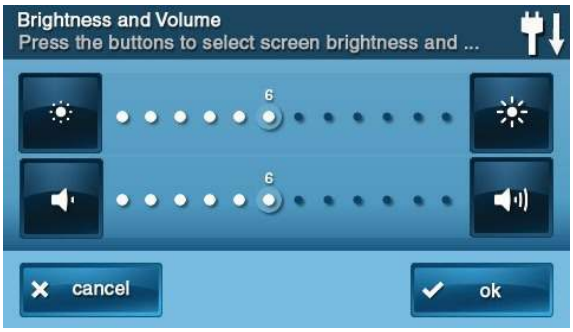
1. From the **Home** screen, tap **Security** .
2. From the Security screen, tap, **Menu** .
3. From the Menu screen, tap **Toolbox** .
4. Enter the *master user code* (the default master user code is 1111) .
5. Tap **User Management** .
6. To add, change, or delete a user code, tap a **User #** button. The system asks to confirm the code entered. Be sure to set a Duress Code as User #8 .

Figure 52 User Management Screen

NOTE: User codes 0000, 0001, 000000, 000001 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, tap **Back** .
8. At the **Toolbox (1 of 3)** screen, tap **Brightness/Volume** . Then set the brightness level for the display screen and the volume for the chime & voice. When done, tap **OK** .

Figure 53 Brightness/Volume Screen



9. At the Toolbox (1 of 3) screen, tap → to go to the Toolbox (2 of 3) screen .
10. Tap Backlight Timeout. Then tap the button that corresponds to the number of seconds or minutes the backlight turns OFF after it is idle. When done, tap OK.

Figure 54 Back Light Timeout Screen

NOTE: If the LTE (Cellular) Radio Module is properly installed and registered, the system automatically sets the date and time for you . Use the following steps only if you want to change the date and time.

11. At the Toolbox (2 of 3) screen, tap Set Date . Then use the ↓ and ↑ arrows to set the month, day, and year. When done, tap OK .

Figure 55 Set Date Screen

12. At the Confirmation screen, tap OK.
13. At the Toolbox (2 of 3) screen, tap Set Time . Then use the ↓ and ↑ arrows to set the hours, minutes, and AM/PM. When done, tap OK .

Figure 56 Select Time Screen

14. At the Confirmation screen, tap OK.
    - To return to the Security screen, tap Back .

      OR
    - To return to the Home screen, press .

Installer Testing

When installation and programming is complete, use the option in the Installer Toolbox to test for proper system operations.

Access the Installer Toolbox

To access the Installer Toolbox:

1. At the Home screen, tap the system logo in the lower-right corner .
2. At the Enter a Code screen, enter the installer code (the default installer code is 1561) .

   The Installer Toolbox(1 of 3) screen appears .

Disable/Enable Sounder

When testing the Control Panel, both the internal and external sounder (if installed) will be activated. To limit noise during the testing process, the Control Panel offers an option to disable the sounder .

Disable the Sounder

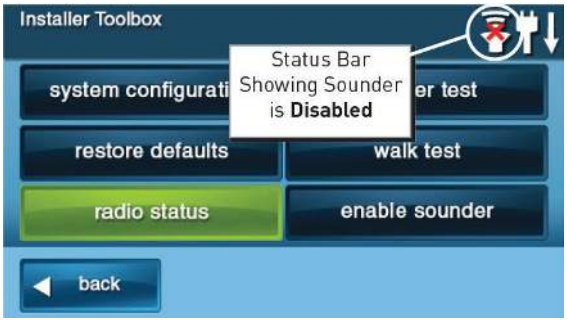
To disable the sounder:

1. At the Installer Toolbox (1 of 2) screen, tap Disable Sounder .
2. At the Disable Sounder? screen, tap OK. NOTE: The internal sounder emits a siren for two (2) seconds . If an external sounder is connected, four (4) chirps are emitted.
3. At the Sounder Disabled screen, tap OK .

NOTE: The sounder will be automatically re-enabled in 30 minutes or you can manually enable it. See “Enable the Sounder”, below.

4. While disabled, the Sounder Disabled icon appears in the status bar .

Figure 57 Sounder Disabled Icon



Enable the Sounder

If the sounder is disabled, you can manually re-enable it as follows:

1. At the Installer Toolbox screen, tap Enable Sounder .
2. At the Sounder Enabled screen, tap OK .

Sensor Type (Zone) Report Test

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

1. **Notify the Central Station** . Because the system sends test signals, notify the Central Station that you will be testing the system. **Fire Test**. Trigger a 24-Hour fire
2. sensor (if installed) or tap the Control Panel’s **Emergency** button and then tap the **Fire** button (if enabled). Wait for approximately 45 seconds for the report to complete, then disarm the console .
3. **Panic Test**. Trigger a 24-Hour Panic sensor (if installed) or tap the Control Panel’s **Emergency** button and then tap the **Panic** button (if enabled). Wait about 45 seconds for the report to complete, then disarm the console .
4. **Emergency Test**. Trigger a 24-Hour emergency sensor (if installed) or tap the **Emergency** button (if enabled), wait ab out 45 seconds for the report to complete, then disarm the console .
5. **Burglary Test** . Arm the system, then trigger a burglary sensor, wait for the system to go into alarm mode, then wait about 45 seconds for the report to complete, and then disarm the console .
6. **Verify Tests with Central Station** . Check with the Central Station that each zone (sensor type) was reported, then inform the Central Station that the testing is complete.

Walk Test

Radio quality can vary when there is background noise on the operating frequency. Examples of background noise sources include telephones, microwaves, high-frequency digital products, and other radio communications.

To determine the best location to mount each sensor, it is recommended that you place each sensor in the desired mounting location and then perform a Walk Test. This helps you to identify whether the desired location has good/weak signal strength. When you find a location with good signal strength, you can then mount the sensor .

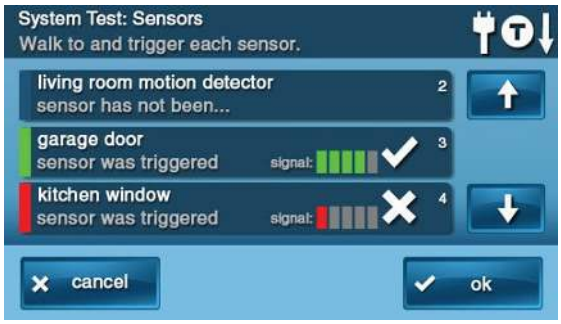
To place the panel into Walk Test mode:

1. At the Installer Toolbox (1 of 2) screen, tap Walk Test .

NOTE: When placing the Control Panel into Walk Test mode, you have 25 minutes to complete the test before the screen times out. The system also sends a “Start Test” report to the Central Station and beeps once every 30 seconds. During the last five (5) minutes of the test, the system beeps two (2) times every 30 seconds and the T icon flashes in the status bar.

2. When the **System Test: Sensors** screen appears, you can tap the ↓ and ↑ arrows to scroll through the sensor list.

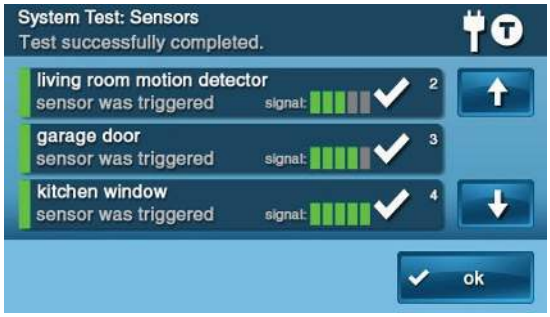
Figure 58 System Test: Sensors Screen



3. Walk to the first sensor in the list, and then activate that sensor to test it .

When the panel receives the signal, it emits (3) beeps and then GREEN or RED bars show the signal strength . The greater the number of bars, the higher the strength . If the signal is sufficient, a check mark appears. If insufficient, an "x" appears.

Figure 59 System Test: Sensors Screen/Signal Strength

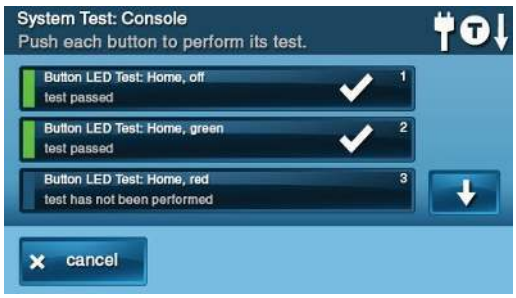


4. Repeat the test for each sensor in the list . If you are testing a sensor with multiple loops, (for example, a Smoke/Heat/Freeze alarm), wait 15 seconds between each loop's test .

NOTE: If a sensor is not detected, no signal will register . Tap OK . Then at the Sensors Test Failed screen, tap OK .

5. At the System Test: Console screen, tap each button to test the panel's LED buttons and audio.

Figure 60 System Test: Console



6. When the console tests are complete, tap **OK** . When the test is successfully completed, tap **OK** to exit Walk Test mode. The system sends a "Stop Test" report to the Central Station.

Radio Status Test

If the LTE (Cellular) Radio Module is installed in the Control Panel, use the **Radio Status** screen to view signal strength, serial number, registration status, and other information for the cellular connection. The is a helpful tool to use when troubleshooting the installation.

Cell Phone Test

To perform a cell phone test:

1 At the **Installer Toolbox** screen, tap **Radio Status** .

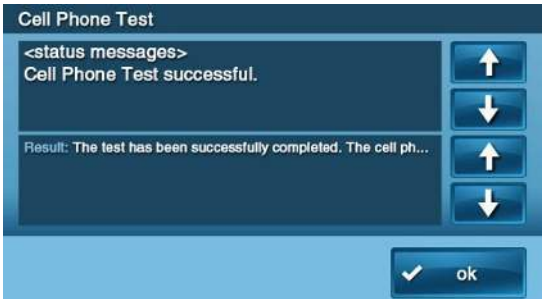
Figure 61 Installer Toolbox: Radio Status

2. At the **Radio Status** screen, tap **Cell Phone Test** .

Figure 62 Radio Status Screen

The Cell Phone Test screen appears to reveal status messages and test results

Figure 63 Cell Phone Test Screen



3. When the results appear, tap the ↓ and ↑ arrows to review the messages:

- RED text indicates the tested signal strength is zero, too low, or that the LTE (Cellular) Radio Module is unregistered .
- ORANGE text indicates the connection is idle and the LTE (Cellular) Radio Module is registered .
- GREEN text indicates good signal strength and that the LTE (Cellular) Radio Module is registered .

4. When the results are successful, tap OK to return to the Toolbox (3 of 3) screen .

Restore Default System Configuration

You can restore the Control Panel settings back to its factory defaults. There are two (2) types of reset options: *Soft* and *hard* .

Soft Reset

A *soft-reset* lets you select which settings to restore back to the factory defaults .

To perform a soft-reset:

1. At the **Installer Toolbox** screen, tap the **Restore Default** button. The Restore Default System Configuration screen appears.

Figure 64 Restore Default System Configuration Screen

2. At the Restore Default System Configuration screen, select one or both check-boxes:

- **Zones**. Place a check-mark in this box to replace data for ALL sensors with the factory default values .

AND/OR

- **Console**. Place a check-mark in this box to replace all of the programming answers with the factory defaults . This erases the user codes, resets the backlight timeout to five (5) minutes, and resets the Brightness/Volume settings.

IMPORTANT: This action does not restore the factory default settings for Z-Wave questions Q79-Q83.

Hard Reset

A *hard-reset* restores all of the programming settings back to the factory defaults .

NOTE: Be fore performing a hard reset, *Q44: Lock Installer Programming* must be set to option *(1)* or *(2)* and *Q45: Lock Default Programming* must be set to *(0)*. See "Q44: Lock Installer Programming (0-2)" on page 52.

To perform a hard reset:

1. Remove the Control Panel cover and completely disconnect all power to the Control Panel .
2. On the inside back of the Control Panel, plug in the backup battery.
3. Tap and hold down the **Emergency** and **Home** buttons.
4. Continue to hold down the **Emergency** and **Home** buttons and then connect DC Power to the Control Panel .
5. Release the buttons only after both the **Emergency** and **Home** buttons are lit and the Control Panel screen appears .

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.

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 five (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: When used with the Alarm .com service, this security system has been evaluated and complies with *UL 1610: Central-Station Burglar-Alarm Units* . It has not been evaluated for *UL 864: Control Units and Accessories for Fire Alarm Systems* and *UL 1076: Proprietary Burglar Alarm Units and Systems*. For commercial installations (UL 1610), only one method of communication is to be used, this method of communication is a LTE (Cellular) Radio Module. See *"LTE (Cellular) Radio Module"* on page 15 .

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.

NOTE: The standard backup battery that is included with all 2GIG Control Panels does not support UL 985 installations. To comply with the secondary supply requirement in *UL 985 Household Fire Warning System Units*, you must install the 2GIG Console Battery Pack (2GIG-BATT2X).

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

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

Limited Warranty

This Nortek Security & Control LLC product is warranted against defects in material and workmanship for one (1) year. This warranty extends only to wholesale customers who buy direct from Nortek Security & Control LLC or through Nortek Security & Control LLC's normal distribution channels. Nortek Security & Control LLC 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 Nortek Security & Control LLC 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 for functionality, are valid only until the warranty expires. This Nortek Security & Control LLC Warranty is in lieu of all other warranties expressed or implied.

All products returned for warranty service require a Return Authorization Number (RA#). Contact Returns at 1-855-546-3351 for an RA# and other important details .

2GIG
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Visit www.nortekcontrol.com or dealer.2gig.com for technical support hours of operation

For technical support outside of the USA and Canada:

Contact your regional distributor
Visit 2gig.com/dealers/ for a list of distributors in your region

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