Simon XT Installation Manual

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FCC compliance This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

FCC Part 15 registration number: B4Z-910C-SIMON
IC: 1175C-910CSIMO

Part 68. This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA.

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Contact information For contact information, see
www.interlogix.com
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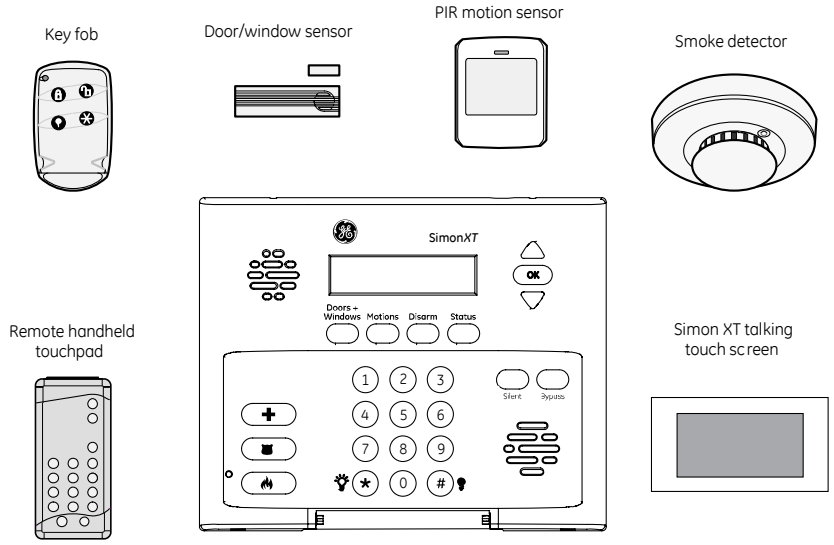
Product overview

This security system can be used as a fire warning system, an intrusion alarm system, an emergency notification system, or any combination of the three. The system has three types of components:

- Self-contained control panel
- Devices that report to the panel
- Devices that respond to commands from the panel

Figure 1: Simon XT system



The self-contained panel provides the main processing unit for all system functions. It receives and responds to signals from wireless sensors and wireless touchpads throughout the premises. For monitored systems, the panel can be connected to the premises phone line for central monitoring station reporting.

You can program the panel onsite from the keypad or remotely using Enterprise Downloader software. See “Programming” on page 21 for complete onsite programming instructions.

System components

The system can monitor up to 40 sensors and may use any of the devices listed in Table 1 below.

Table 1: Supported devices

Device	Description
Door/window sensor (60-670, 60-362N)	For intrusion protection, install door/window sensors on all ground-floor doors and windows. At a minimum, install then in the following locations: • All easily accessible exterior doors and windows. • Interior doors leading into the garage. • Doors to areas containing valuables.
Indoor motion sensor (60-639)	Indoor motion sensors are ideal whenever it is not practical to install door/window sensors on every opening. Identify areas where an intruder is likely to walk through. Large areas in an open floor plan, downstairs family rooms, and hallways are typical locations for indoor motion sensors. For installations with pets, use the SAW Pet Immune PIR (60-807).
Outdoor motion sensor (60-639)	Use outdoor motion sensors to detect motion in a protected outdoor area. Detected motion in this protected area can sound chimes.
Freeze sensor (60-742)	Freeze sensors detect low temperature conditions, which may indicate a furnace failure. The sensor contains a bimetallic thermal switch connected to the built-in transmitter. The sensor transmits an alarm signal to the panel when the surrounding temperature drops to about 41ºF (5ºC). When the temperature rises to 50ºF (10ºC), the sensor transmits a restore signal.
Water sensor (60-744)	Water sensors detect water leaks and rising water. The detector is connected to the sensor by an 8-foot cable. Water that reaches both detector contact points activates the sensor, causing it to transmit an alarm signal.
Smoke sensor (60-848-02-95, TX-6010-01-1)	Smoke sensors provide fire protection by causing an alarm to sound throughout the house. You can add smoke sensors near sleeping areas and on every floor of the house. Avoid areas that could have some smoke or exhaust such as attics, kitchens, above fireplaces, dusty locations, garages, and areas with temperature extremes. In these areas, you may want to install rate-of-rise sensors to detect extreme temperature changes. See the instructions packaged with the smoke sensor for complete placement information.
Carbon monoxide (CO) alarm (TX-6310-01-1)	The learn mode CO alarm alerts you to hazardous levels of carbon monoxide gas. If dangerous concentrations of gas are present, the red indicator light comes on, the internal siren goes off, and an alarm is transmitted to the panel. The panel sounds its own alarm and reports to the central station.

Device	Description
Key fob (60-659)	The key fob (keychain touchpad) lets you turn the system on and off from right outside the home or activate a panic alarm if there is an emergency. If you have the appropriate light control modules, you can use key fobs to turn all system controlled lights on and off.
ELM (encrypted learn mode) key fob (60-832)	The ELM 2-button key fob is an alkaline battery-powered, wireless touchpad that allows you to arm and disarm the system and activate a police or auxiliary alarm. Random encrypted signal transmissions provide high security to help prevent signal copying.
Remote handheld touchpad (60-671)	The remote handheld touchpad lets you turn the system on and off while in the home, turn system-controlled lights on and off, or activate a panic alarm if there is a nonmedical emergency.
Simon XT talking touchpad (60-924-3-XT)	The 2-way talking touchpad is a wireless device that provides a convenient option to: arm the system (doors, windows, and motion sensors), arm the system with no entry delay, disarm the system, activate a panic alarm to call the central monitoring station in a nonmedical emergency, check system status, and turn system controlled lights on or off (all or individual), all while providing voice feedback.
Simon XT talking touch screen (60-924-3-XT-2WTTS, 60-924-RF-TS, 60-924-RF-TS-N)	The 2-way talking touch screen is a wireless device that provides a graphical user interface that allows you to: arm the system (doors, windows, and motion sensors), disarm the system, activate a panic alarm to call the central monitoring station in a nonmedical emergency, check system status, and turn system controlled lights on or off, all while providing voice feedback. The touch screen also provides trouble beeps, entry/exit beeps, and alarm sounds (Fire, Aux., Police).
Water-resistant personal help button (60-906-95)	The water-resistant personal help button is a wireless device used for activating police or auxiliary alarms through your system. When the help button is pressed, the light mounted under the cover will blink and an alarm signal is transmitted.

Caution: Do not use outdoor motion sensors for intrusion protection.

Standard panel

Table 2 below describes the basic panel (out-of-box) hardware capabilities for the Simon XT 600-1054-95R-11 and 600-1054-95R-11-CN.

Table 2: Panel hardware capabilities

Hardware	Capability
Power	Input for an AC step-down, plug-in style transformer.
One siren output, up to two zone inputs	Terminals for connecting hardware sirens or normally closed (NC) loop switch circuits.
Phone line connection	Allows the panel to communicate with the central monitoring station and/or remote phone.

Planning the installation

This section describes system capabilities to help you get familiar with your system. The planning sheets contain tables that let you record the hardware and programming configuration of your system. Complete all of the information ahead of time to help prepare for system installation. See “Sensor names” on page 53 for sensor name segments listed alphabetically and by index number.

Locate the panel where alarm sounds can be heard and where the panel will be easily accessible for operation. Do not install the panel near a window or door where it can be reached easily by an intruder.

Planning sensor types and locations

The first step to an easy and successful installation is to decide what areas or items to protect, which lights to operate, and the best location for the panel, touchpad, sensors, and sirens. Metal objects, mirrors, and metallic wallpaper can block signals sent by the wireless sensors. Make sure there are no metal objects in the way when installing the system.

Use Table 3 below and Table 4 on page 6 to determine the appropriate sensor type for the sensors you will be adding, and Table 5 on page 8 to document the planned sensor information. You will need to understand the application for each sensor.

Table 3: Recommended sensor groups

Device	Recommended sensor group
Indoor motion sensor	17 (intrusion), 25 (chime)
Outdoor motion sensor	25 (chime only)
Entry/exit door	10
Interior door	14
Window sensor	13
Smoke sensor	26
Key fob	01, 03, 06, 07
ELM key fob	01, 03, 06, 07
Remote and Simon XT talking touchpads	01, 03, 06, 07
Simon XT talking touch screen	00, 01, 04, 05, 06, 07
CO alarm	34
Freeze sensor	29
Water sensor	38
Property/asset management	43
Personal help button	01, 03, 06, 07

Table 4: Sensor group characteristics

Type	Name/application	Siren type	Delay	Restoral	Supervised	Active in arming levels
00	Fixed panic: 24-hour audible fixed emergency button.	Intrusion	I	N	Y	01234
01	Portable panic: 24-hour audible portable emergency button.	Intrusion	I	N	N	01234
02	Fixed panic: 24-hour silent fixed emergency button. Status light will not blink.	Silent	I	N	Y	01234
03	Portable panic: 24-hour silent portable emergency buttons. Status light will not blink.	Silent	I	N	N	01234
04	Fixed auxiliary: 24-hour auxiliary sensor.	Emergency	I	N	Y	01234
05	Fixed auxiliary: 24-hour emergency button. Siren shut off confirms CS report.	Emergency	I	N	Y	01234
06	Portable auxiliary: 24-hour portable auxiliary alert button.	Emergency	I	N	N	01234
07	Portable auxiliary 24-hour portable auxiliary button. Siren shut off confirms CS report.	Emergency	I	N	N	01234
08	Special intrusion: Such as gun cabinets and wall safes.	Intrusion	I	Y	Y	1234
09	Special intrusion: Such as gun cabinets and wall safes.	Intrusion	S	Y	Y	1234
10	Entry/exit delay: A delay that requires a standard delay time. Chime.	Intrusion	S	Y	Y	24
13	Instant perimeter: Exterior doors and windows. Chime.	Intrusion	I	Y	Y	24
14	Instant interior: Interior door.	Intrusion	F	Y	Y	234
15	Instant interior: Interior PIR motion sensor.	Intrusion	F	Y	Y	234
16	Instant interior: Interior door.	Intrusion	F	Y	Y	34
17	Instant interior: PIR motion sensor and sound sensor.	Intrusion	F	N	Y	34
18	Instant interior: Cross-zone PIR motion sensor.	Intrusion	F	N	Y	34
19	Delayed interior: Interior doors that initiate a delay before going into alarm.	Intrusion	S	Y	Y	34
20	Delayed interior: PIR motion sensor that initiates a delay before going into alarm.	Intrusion	S	N	Y	34
21	Local instant interior: 24-hour local alarm zone protecting anything that opens and closes. No report.	Intrusion	I	Y	Y	1234
22	Local delayed interior: Same as group 21, plus activation initiates a delay before going into alarm. No report.	Intrusion	S	Y	Y	1234
23	Local instant auxiliary: 24-hour local alarm zone protecting anything that opens and closes. No report.	Emergency	I	Y	Y	01234

Type	Name/application	Siren type	Delay	Restoral	Supervised	Active in arming levels
24	Local instant auxiliary: 24-hour local alarm zone protecting anything that opens and closes. Sirens shut off at restoral. No report.	Emergency	I	Y	Y	01234
25	Local special chime: Notify the user when a door is opened.	Three beeps	I	N	Y	01234
26	Fire: 24-hour fire, rate-of-rise heat, and smoke sensor.	Fire	I	Y	Y	01234
27	Lamp control or other customer feature. No report.	Silent	I	Y	Y	01234
28	PIR motion sensor, sound sensor, or pressure mat. RF thermostat. No report	Silent	I	N	Y	01234
29	Auxiliary: Freeze sensor.	Trouble beeps	I	Y	Y	01234
32	PIR motion sensor or sound sensor. No report.	Silent	I	N	N	01234
34	Carbon monoxide alarm.	Emergency	I	Y	Y	01234
35	Entry/exit delay interior PIR motion	Intrusion	S	N	Y	234
36	Special intrusion: Such as gun cabinets and wall safes. Reports as tamper if tripped.	Intrusion	I	Y	Y	1234
38	Auxiliary: Water sensor.	Trouble beeps	I	Y	Y	01234
39	Local instant interior: 24-hour local alarm zone protecting anything that opens and closes. No report.	Intrusion	I	Y	Y	1234
40	Local special chime.	Three beeps	I	Y	Y	01234
43	Property/asset management: Notify the user that a protected asset has moved. Note: We recommend you use this sensor group in combination with a Two-Way Talking Touch Screen.	One beep	I	N	Y	01234

Table 5: Sensor assignments/locations

Sensor #	Device	Sensor group	Sensor name/location	Notes
01				
02				
03				
04				
05				
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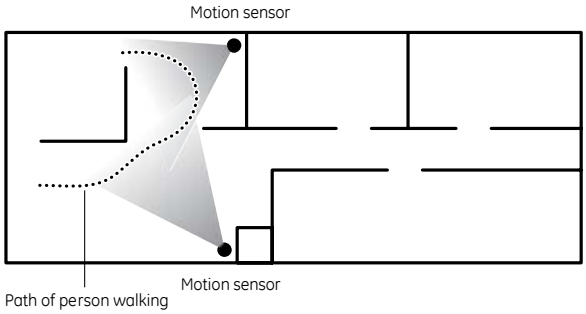
28				
29				
30				
31				

Sensor #	Device	Sensor group	Sensor name/location	Notes
32				
33				
34				
35				
36				
37				
38				
39				
40				

Cross-zoning

Cross zoning (two-trip) refers to two different group 18 sensors that must be tripped within two minutes of each other to report an alarm to the central station. Figure 2 below shows the path of a person walking from the kitchen to the living room. When the person is detected walking through the kitchen, the motion sensor in the kitchen is tripped, sounding a local alarm. If motion is detected by the living room motion sensor within two minutes, an alarm report will be sent to the central station.

Figure 2: Cross-zone diagram



Note: We do not recommend cross zoning for exit/entry zones. Each zone can individually protect the intended area.

System configuration

Table 6 below is a worksheet for you to record the desired values for each programming option. For each option, the default value, effect of deletion (pressing Disarm while editing), range, and programming privilege are listed. Each option is described in more detail in “Programming” on page 21.

In the table, the Access code column indicates what type of access code is allowed to make changes: D = dealer code, I = installer code, M = master code.

Table 6: System programming menu options

Function	Default	Delete	Range	Access code	Installer settings
Access codes menu					
Dealer code	654321, 54321, 4321, or 321	None	3 to 6 digits	D	
Installer code	654321, 54321, 4321, or 321	None	3 to 6 digits	D, I	
Master code	123456, 12345, 1234, or 123	None	3 to 6 digits	D, I, M	
User code 1	None	None	3 to 6 digits	D, I, M	
User code 2	None	None	3 to 6 digits	D, I, M	
User code 3	None	None	3 to 6 digits	D, I, M	
User code 4	None	None	3 to 6 digits	D, I, M	
User code 5	None	None	3 to 6 digits	D, I, M	
User code 6	None	None	3 to 6 digits	D, I, M	
User code 7	None	None	3 to 6 digits	D, I, M	
User code 8	None	None	3 to 6 digits	D, I, M	
Duress code	None	None	3 to 6 digits	D, I, M	
Code length	4	4	3 to 6	D	
Security menu					
Account number	00000	00000	0 to FFFFFFFFFF	D, I	
Downloader code	12345	12345	00000 to 99999	D	
Phone lock	Off	Off	On/Off	D	
Auto arm	On	Off	On/Off	D, I	
Exit extension	On	Off	On/Off	D, I	
Secure arming	Off	Off	On/Off	D, I	
No arm low battery	Off	Off	On/Off	D, I	
Quick exit	Off	Off	On/Off	D, I	

Function	Default	Delete	Range	Access code	Installer settings
Downloader enable	On	Off	On/Off	D, I, M	
Supervisory protest	Off	Off	On/Off	D, I	
Phone # menu					
Phone #1	None	None	26 digits	D	
Phone #2	None	None	26 digits	D	
Phone #3	None	None	26 digits	D, I	
Phone #4	None	None	26 digits	D, I, M	
Downloader #	None	None	26 digits	D, I	
Phone options menu					
Manual phone test	On	Off	On/Off	D, I	
Fail to communicate	On	Off	On/Off	D, I	
DTMF	On (touchtone)	Off (pulse)	On/Off	D, I	
300 bps baud rate	On (300 bps)	Off (110 bps)	On/Off	D, I	
Ring/hang/ring	1	Off	1 to 7, Off	D, I	
Dial delay	30 seconds	15 seconds	15 to 45 seconds	D, I	
Call waiting code	None	None	26 digits	D, I	
Line cut detect	Not available				
Sensors menu					
Learn sensors				D, I	
Delete sensors				D, I	
Edit sensors				D, I	
Reporting menu					
Report options					
Opening reports	Off	Off	On/Off	D, I	
Closing reports	Off	Off	On/Off	D, I	
Forced armed	Off	Off	On/Off	D, I	
AC power failure report	Off	Off	5 to 254 minutes, off	D, I	
Low CPU battery report	On	Off	On/Off	D, I	
Sensor alarm restoral report	Off	Off	1 to 3, Off	D, I	
24-hour sensor tamper report	Off	Off	On/Off	D, I	

Function	Default	Delete	Range	Access code	Installer settings
Supervisory/ tamper report	Off	Off	On/Off	D, I	
No usage	Off	Off	2 to 254 days, Off	D, I	
Swinger shutdown	On	Off	On/Off	D, I	
Programming report	Off	Off	On/Off	D, I	
Fire alarm verification	Off	Off	On/Off	D, I	
Report communication modes					
Phone 1 report mode	Off	Off	All SIA, All CID, Alarms SIA, Alarms CID, Nonalarm SIA, Nonalarm CID, Backup SIA, Backup CID, Voice dialer, or Off	D	
Phone 2 report mode	Off	Off		D	
Phone 3 report mode	Off	Off		D, I	
Phone 4 report mode	Off	Off		D, I	
Timers menu					
Latchkey time	None	None	12:00 midnight to 11:59 PM, None	D, I, M	
Entry delay	30 seconds	30 seconds	30 to 240 seconds	D, I	
Exit delay	60 seconds	45 seconds	45 to 254 seconds	D, I	
No activity timeout	Off	Off	2 to 24 hours, off	D, I	
Auto phone test	Off	Off	1 to 254 days, off	D, I	
Supervisory time	Midnight	None	12:00 midnight to 11:59 PM, None	D, I	
Alarm cancel	6 minutes	Off	6 to 255 minutes, Off	D, I	
RF timeout	12 hours	12 hours	2 to 36 hours	D, I	
Fail to open time	Off	Off	12:00 midnight to 11:59 PM, Off	D, I	
Fail to close time	Off	Off	12:00 midnight to 11:59 PM, Off	D, I	
Siren timeout	5 minutes	Off	2 to 254 minutes, Off	D, I	
Arming LED shutdown	Off	Off	On/Off	D, I	
Unvacated premises	On	Off	On/Off	D, I	
Smoke supervision	Off	Off	On/Off	D, I	
Touchpad options menu					
Key fob no delay	Off	Off	On/Off	D, I	
Panic alarms	On	Off	On/Off	D, I	

Function	Default	Delete	Range	Access code	Installer settings
Remote touchpad arming	Off	Off	On/Off	D, I	
System options menu					
RF jam detect	Off	Off	On/Off	D, I	
Demo mode	Off	Off	On/Off	D, I	
HW1 function	1	Off	1, 2, 3, 4, 5, or Off	D	
24-hour clock	Off	Off	On/Off	D, I	
Siren options menu					
Panel piezo beeps	On	Off	On/Off	D, I, M	
Panel voice	On	Off	On/Off	D, I, M	
Panel piezo alarms	On	Off	On/Off	D, I, M	
Trouble beeps	On	Off	On/Off	D, I	
Voice chime	Off	Off	1, 2, 3, or Off	D, I	
Status beeps volume	7	7	1 to 10	D, I, M	
Hardwired siren supervision	Off	Off	On/Off	D, I	
Speaker volume	8	8	1 to 8	D, I, M	
Panel silent police panic	Off	Off	On (silent), Off (audible)	D, I	
Alarm report verification	Off	Off	On/Off	D, I	
Audio verify menu					
Audio mode	Off	Off	1, 2, or Off	D, I	
Fire shutdown	Off	Off	On/Off	D, I	
Panic talk	Off	Off	On/Off	D, I	
Vox receiver gain	6	6	1 to 32	D, I	
Vox mic gain	24	24	1 to 64	D, I	
Vox mic gain range	64	64	1 to 64	D, I	
Manual mic gain	64	64	1 to 64	D, I	
System test menu					
Sensor test				D, I, M	
Communication test				D, I, M	
System download				D, I, M	

Installation

Tabs at the top of the panel secure and release the front cover and the chassis. The plastic hinges on the panel bottom allow the cover and chassis to swing down and out of the way.

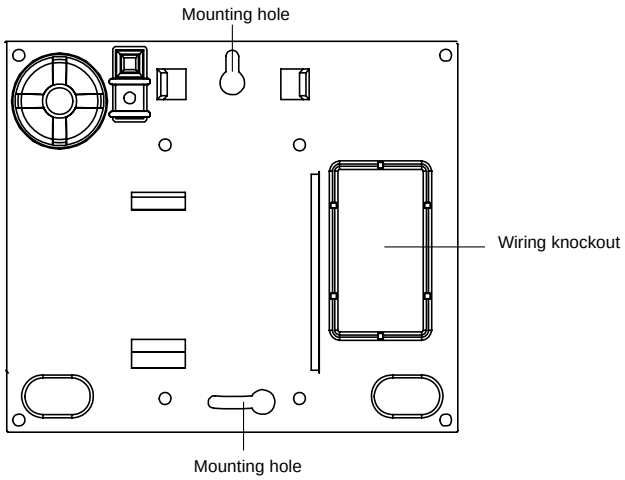
To mount the panel on a wall:

1. Choose a panel location and run all necessary power, phone, siren, and hardwired contact wires to the desired location.

   When choosing the AC outlet location for the AC power transformer, make sure the outlet is not controlled by a switch or that it is not part of a ground fault circuit interrupt (GFCI).

2. Hold the panel against the wall and mark the mounting hole locations with a pencil (see Figure 3 below).
3. Mount the back piece to the wall through the two horizontally centered mounting holes near the top and bottom using the supplied mounting hardware. Use wall anchors if no studs are present.
4. Connect the chassis assembly to the mounted back piece and let it hang down. This makes the terminal strip accessible for wiring various hardwired components to the panel.
5. Feed wires through opening in the back piece to be ready to attach them to the screw terminals or the phone connectors.
6. Install all screws and tighten gently.

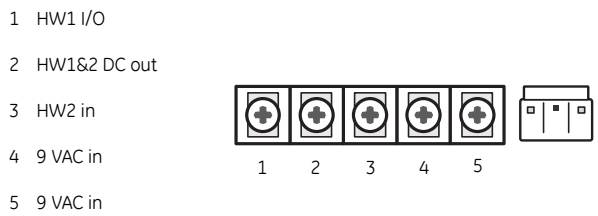
Figure 3: Mounting holes



Connecting hardwired devices

The panel has five screw terminals, two battery terminals, and two telephone connections. The screw terminals connect the AC power, sirens, and or hardwired detectors.

Figure 4: Wiring terminals



Program sensors and devices before you install them. Follow the instructions in "Sensors" on page 31 to add the sensors to panel memory.

The HW1 I/O terminal is dual purpose and can be used for either siren or hardwired contact connections. The HW2 in terminal is an input only.

Interior sirens

From the factory, the HW1 I/O input is set up for interior siren operation (status and alarm sounds). The HW1&2 DC out terminal provides the positive (+) voltage.

Note: The total current available from the HW1&2 DC out terminal is 250 mA at up to 120ºF (49ºC). A 24-hour battery standby will be met with a maximum load of 250 mA.

With hardwired siren supervision turned on, sirens connected to HW1 I/O are supervised and require a 4.7-kohm resistor in the circuit. If this terminal is not used, turn hardwired siren supervision off.

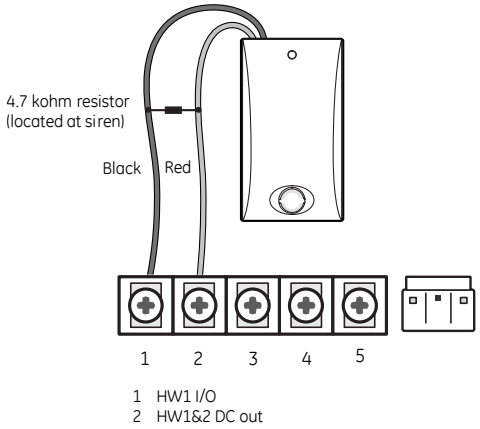
Hardwired interior siren

Interior sirens must always be wired with a resistor in the circuit. For circuit supervision, which allows the panel to detect if the siren wire is cut (open), the hardwired siren supervision option must be turned on.

Note: Do not install the resistor at the panel terminals. This does not provide supervision of the wire.

Connect the hardwired interior siren (13-374) to the panel using a 4.7 kohm resistor (included with the siren) as shown in Figure 5 on page 16. The resistor must be connected across the siren wires as close to the siren as possible.

Figure 5: Hardwired interior siren with supervision



Exterior sirens

For an exterior siren, reprogram HW1 to Option 6. See Wiring diagram.

Hardwired contacts

To set up HW1 I/O and/or HW2 for hardwired contacts, make the required connections described below, and then proceed to “Programming” on page 21 to add (learn) them into panel memory.

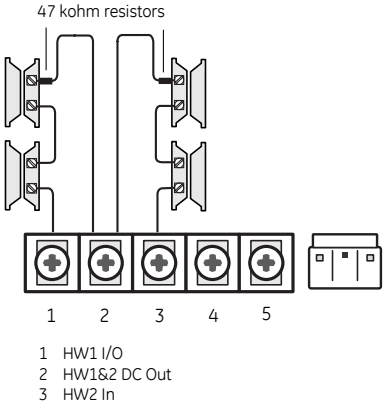
You can connect hardwired reed switches (normally closed loop only) to HW1 I/O (if not being used for a hardwired siren) and/or HW2 in.

Note: Connect only normally closed (NC) reed switches to HW1 I/O and/or HW2 in. Other types of hardwired detectors should not be used.

The total resistance of the wired loop must not exceed 3 ohms. This allows you to use up to 200 ft. (61 m) of two-conductor, 22-gauge stranded wire.

Connect hardwired reed switches to the panel using a 47-kohm resistor (not a 4.7-kohm resistor) as shown in Figure 6 on page 17. The resistor must be connected at the last switch in the circuit.

Figure 6: Normally closed hardwired reed switches



Note: Do not install the resistor at the panel terminals. This does not provide supervision of the wire.

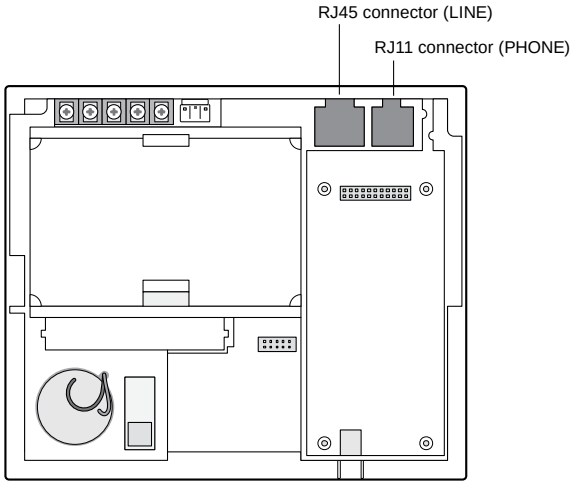
Wiring a phone line to the panel

You can connect a phone line to the panel for systems monitored by a central monitoring station or systems that notify users by a voice event notification.

DSL (digital subscriber line) allows the use of multiple devices on a single phone line simultaneously. For DSL environments, connect the panel line-in jack to an available phone jack on the premises. You may also need an inline filter to ensure panel reporting is successful.

Note: Avoid connecting the panel to a standard phone (voice) line in this manner. Other devices in use at the same time the panel is using the line can prevent reports from going through.

Figure 7: Phone connectors



Full line seizure

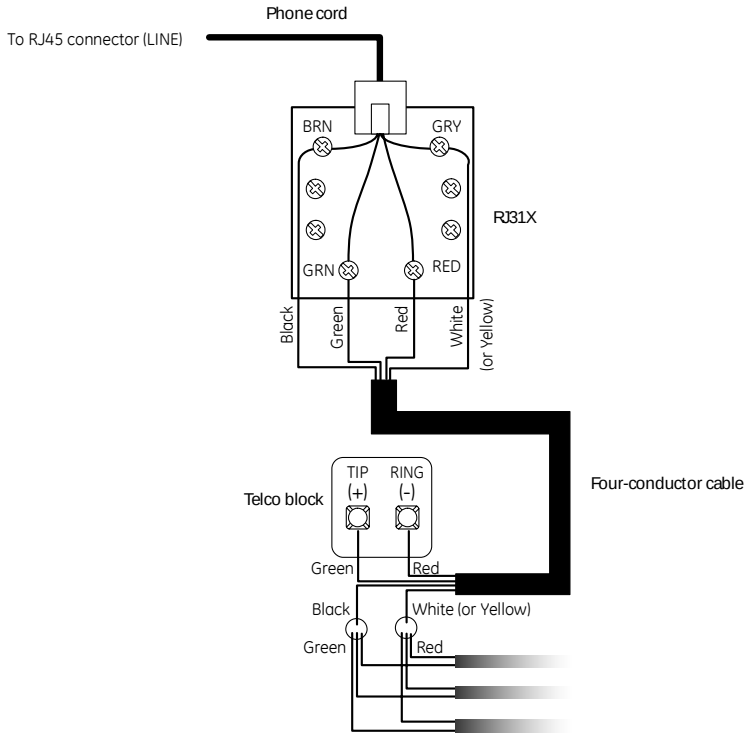
Full line seizure allows the panel to take over (seize) the phone line, even if another device on the line is in use. This method requires that the panel be wired before all other phones, answering machines, computers, or other devices on the phone line.

Use the RJ31X (CA-38A) jack when wiring for full line seizure. You can then quickly and easily disconnect the panel from the phone line in case the panel disables the phone line due to a malfunction.

To wire full line seizure with an RJ31X:

1. Run a four-conductor cable from the premises Telco block to the RJ31X (see Figure 8 below).
2. Connect the four-conductor cable wire to the RJ31X.
3. Disconnect the green and red premises phone jack wires from the Telco block and splice them to the four-conductor cable black and white (or yellow) wires. Use weatherproof wire connectors for these splices.
4. Connect the four-conductor cable green and red wires to the Telco block TIP (+) and red to RING (-) posts.
5. Connect the phone cord included with the panel to the RJ31X and the panel LINE jack.

Figure 8: Full line seizure wiring with RJ31X



Full line seizure wiring with one premises phone

If a single phone is all that exists on the premises, full line seizure can be accomplished without an RJ31X.

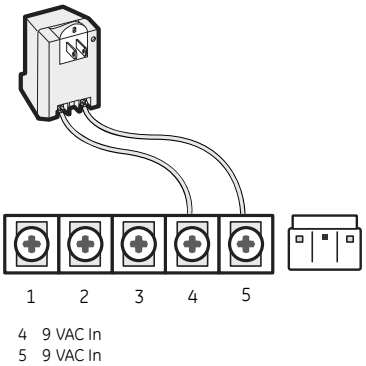
1. Disconnect the phone from the premises phone jack and plug it into the panel PHONE jack. This jack is disconnected automatically whenever the panel reports.
2. Connect the included phone cord to the panel LINE jack and the premises phone jack.

Note: If customers add phones or other phone devices to another phone jack, full line seizure no longer exists. Inform them to contact you if they want to add a phone or other device so that you can rewire for full line seizure by adding an RJ31X.

Wiring the power transformer

Connect the power transformer to the two 9 VAC in terminals on the panel.

Figure 9: Transformer connections



Do not plug in the transformer at this time. When applying power to the panel connect the battery first, and then plug in the AC power transformer. This sequence prevents a battery fault condition.

Note: Maximum battery charge current is 45 mA. It may take up to 24 hours for a new battery to fully change.

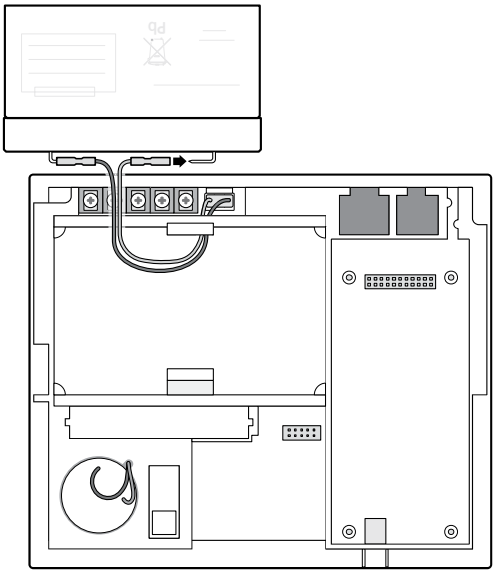
To install the backup battery (6 VDC, 1.2 Ah):

1. Connect the lug end of the red battery lead to the red battery tab.
2. Connect the lug end of the black battery lead to the black battery tab.
3. Align the red (+) battery terminal with the right end of the terminal strip. The logo and specification information should be readable.
4. Insert the front end of the battery under the forward battery compartment latch.

5. Push forward and rotate the battery downward until it seats beneath the rear battery compartment latch.

Caution: Do not connect the battery until you are ready to power up the panel.

Figure 10: Battery installation



Applying AC power

Make sure the outlet is not controlled by a switch or that it is not part of a ground fault circuit interrupt (GFCI).

1. Remove the center screw from the outlet cover plate and hold the cover plate in place.

WARNING: Use extreme caution when securing the transformer to a metal outlet cover. You could receive a serious shock if a metal outlet cover drops down onto the prongs of the plug.

2. Plug the transformer into the lower receptacle of the outlet so that the hole in the transformer tab lines up with the outlet cover screw hole.
3. Insert the cover plate screw through the transformer tab and the outlet cover plate. Tighten the screw.

Programming

The control panel provides the main processing unit for all system functions. The programming of system options and features is menu-driven. All installer options are set in the System Programming menu, except for setting the system time. Figure 11 below shows the Simon XT front panel controls.

Figure 11: Simon XT keys and features

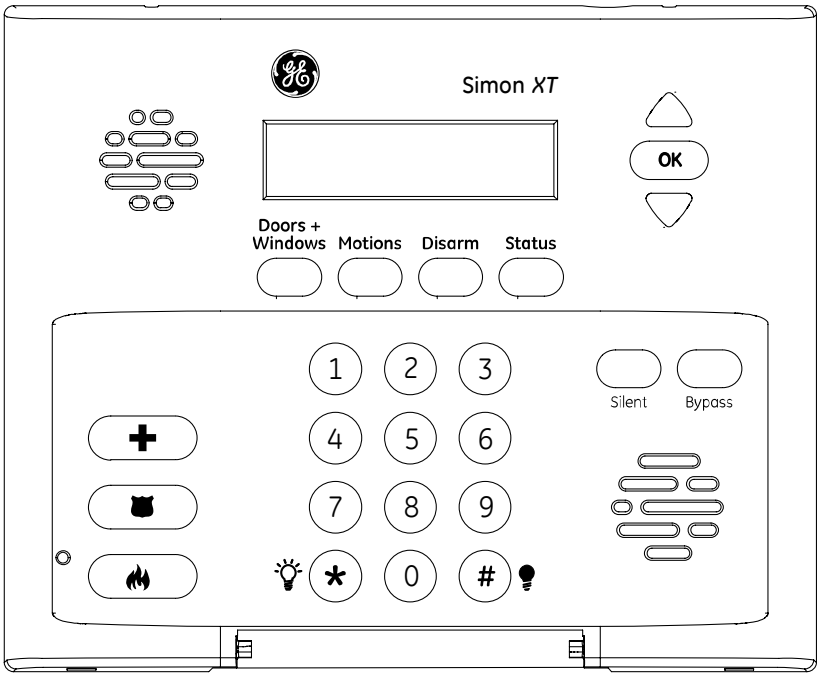


Table 7 below explains the panel keys and features.

Table 7: Simon XT panel keys and features

Control	Description
Piezo siren	The piezo siren makes alarm beeps and status beeps. Fire and intrusion alarm beeps are always played at high volume, while the volume of status beeps is programmable.
LCD display	The LCD module has a 2 x 16 character array that displays a variety of phrases and icons.
Doors+Windows	Press to arm perimeter sensors.
Motions	Press to arm interior sensors.
Disarm	Press to turn off intrusion/burglary protection for your system. Only intrusion/burglary sensors such as doors, windows, and motion sensors are disarmed. Environmental sensors, such as smoke and carbon monoxide, stay active at all times.

Control	Description
Status	Press to determine system status.
Silent	Press to silence exit beeps when arming.
Bypass	Press to bypass a sensor.
Emergency (cross)	Press and hold the Emergency button for two seconds (or press twice quickly) to call the central monitoring station and notify them of a nonmedical call for help.
Police (shield)	Press and hold the Police button for two seconds (or press twice quickly) to call the central monitoring station and notify them of a nonmedical call for help.
Fire (flame)	Press and hold the Fire button for two seconds (or press twice quickly) to call the central monitoring station and notify them of a nonmedical call for help.
Microphone	Used to communicate with the central monitoring station after an alarm.
Scroll up/scroll down	Press to scroll through lists of similar items.
OK	Press to select a particular menu item or commit to memory a menu item that has just been programmed.
Numeric keypad	Twelve-key telephone-type keypad (0 through 9, *, #) for entering access codes or other numerical data.
* (light bulb)	Lights on. (Contact UTC Fire & Security for required equipment information.)
# (dark light bulb)	Lights off. (Contact UTC Fire & Security for required equipment information.)
Speaker #	Provides voice output and sounds key beeps. The panel speaks arming level change, system status, and voice chime sensor trips. The panel voice is also used for voice reporting and remote phone control.

To enter the system menu, press one of the scroll buttons or the OK button in the upper right of the panel.

Press the Status button to exit a menu or option edit mode and navigate up one level. Pressing the Status button while in the top menu level exits the system menu level. The panel automatically exits the system menu after a few seconds of inactivity if no access code has been entered yet. After an access code has been entered to access a code-protected area of the system menu, the timeout is four minutes.

Menu navigation

Each menu contains a list of options and/or submenus. Press the scroll buttons to navigate up and down the list of options and submenus in that menu. Pressing OK after navigating to an option selects that option for editing and flashes the current value. Pressing OK after navigating to a submenu enters that submenu, making a new list of options accessible. Pressing Status exits a menu and goes to the next higher level.

Programming options are arranged in a menu structure as outlined in Table 8 below. The top menu contains several features, as well as the System Programming menu. When accessing the System Programming or System Tests menu, the panel prompts you to enter an access code. To continue, enter the dealer code or installer code, and then press OK.

To program an option, first navigate to that option until it is displayed, and then press OK. The option value will start flashing, indicating that it is ready to be changed. Use the scroll keys or enter a numerical value to change the option, and then press OK to save the change.

Table 8: Simon XT menu structure

Set clock (system time)		
Set date		
Enable chime		
Enable special chime		
System tests	Sensor test	
	Communication test	
	Initiate download call	
System programming	Access codes	Dealer code, Installer code, Master code, User code 1, User code 2, User code 3, User code 4, User code 5, User code 6, User code 7, User code 8, Duress code, Code length
	Security	Account number, Downloader code, Phone lock, Auto arm, Exit extension, Secure arming, No arm on panel low battery, Quick exit, Downloader enable, supervisory protest
	Phone #s	Phone #1, Phone #2, Phone #3, Phone #4
	Phone options	Manual phone test, Fail to communicate, DTMF dialing, 300 bps baud rate, Ring/hang/ring, Dialer delay, Call waiting code, Line cut detect (not available)
	Sensors	Learn sensor, Delete sensor, Edit sensor

	Reporting	Report options: Opening report, Closing report, Force armed report, AC power failure report, Panel low battery report, Sensor alarm restoral report, 24-hour sensor tamper, Supervisory/tamper report, No usage report, Swinger shutdown, Programming report, Fire alarm verification Communication modes: Phone 1 reports, Phone 2 reports, Phone 3 reports, Phone 4 reports
	Timers	Latchkey time, Entry delay, Exit delay, No activity timeout, Auto phone test, Supervisory time, Alarm cancel window, RF timeout, Fail to open time, Fail to close time, Siren timeout, Arming LEDs shutdown, Unvacated premises, Smoke sensor supervision
	Touchpad options	Keyfob no delay, Panel panic alarms, Remote touchpad arming
	System options	RF jam detect, Demo mode, HW1 I/O, 24-hour clock format
	Siren options	Piezo beeps, Panel voice, Panel piezo alarm, Trouble beeps, Voice chime, Status beeps vol, HW siren sup, Speaker volume, Silent police panic, Alarm report verify
	Auto verification	Audio mode, Fire shutdown, Panic talk, VOX receiver gain, VOX microphone gain, VOX gain range, Manual microphone gain
	System tests	Sensor test, Communication test, Initiate download call
Revision		
Contrast		

Set clock

If the panel loses both AC and battery power, then upon power restoral the system time will reset to midnight and blink, indicating it has not been set correctly. You can set the system time to display in either 12-hour or 24-hour format.

Time of day format is HH:MMx, where:

HH = 01 to 12 (12-hour format) or 00 to 23 (24-hour format)

MM = 00 to 59

X = a or p (12-hour format) or none (24-hour format)

To reset the clock:

1. Scroll until the display shows `Set Clock`, and then press OK. The display shows `Enter Code`.

2. Enter your code with the numeric keys, and then press OK. The display flashes the hours.
3. Scroll to set the hours, and then press OK to accept the setting. The display flashes the minutes.
4. Scroll to set the minutes, and then press OK to accept the setting. The display flashes `AM/PM`.
5. Scroll to set the AM/PM, and then press OK to accept the setting. The display shows the current time and stops flashing.
6. Press Status twice to exit.

Set date

If the panel loses both AC and battery power, then upon power restoral the system date will reset.

Date format is YYYY-MM-DD, where:

YYYY = year

MM = month

DD = day

To set the date:

1. Scroll until the display shows `Set Date`, and then press OK. The display shows `Enter Code`.
2. Enter your code with the numeric keys, and then press OK. The display shows the date.
3. Press OK. The display flashes the year.
4. Scroll to set the year, and then press OK to accept the setting. The display flashes the month.
5. Scroll to set the month, and then press OK to accept the setting. The display flashes the day.
6. Scroll to set the day, and then press OK to accept the setting. The display shows the programmed date.
7. Press Status twice to exit.

Revision

To display the firmware revision of the system, scroll until the display shows `Revision`. This is a read-only menu. Press Status to exit.

Contrast

To adjust the contrast of the display:

1. Scroll until the display shows `Contrast`, and then press OK.
2. Scroll to increase or decrease the contrast setting,
3. Press Status to save the setting and exit.

Note: Changes in contrast are more noticeable when not looking at the display straight on.

System programming

To enter system programming:

1. Scroll until the display shows `System Programming`, and then press OK. The system prompts for an access code.
2. Enter the access code from the codes listed in Table 9 below. The system displays each entered access code digit as an asterisk.
3. Press OK. The panel is now in program mode.

Note: Do not remove the panel power while in program mode.

Table 9: Simon XT programming codes

Code	Description
Dealer code	You can use the dealer code to program all system functions, including high-security options that are not accessible with the installer code if it is different from the dealer code. Depending on how the access code is set, the default dealer access code is 654321, 54321, 4321 (factory default), or 321. This code can be used for all programming.
Installer code	Depending on how the access code is set, the default installer code is 654321, 54321, 4321 (factory default), or 321. This code is limited to changing all but the following: Dealer code, code length, downloader code, phone lock, phone #1, phone #2, phone 1 report mode, phone 2 report mode, HW1 function.

The following sections describe the programming options in the System Programming submenus.

Access codes

Table 10 below describes the Access Codes menu.

Table 10: Access Codes menu

Function	Default	Description
Dealer code	4321	You can use the dealer code to program all system options, including high-security options that are not accessible with the installer code if it is different from the dealer code. Changing the dealer code to differ from the installer code will prevent the installer from viewing certain fields. If you change the dealer code and enter program mode with the installer code, the installer should no longer be able to see the following: code length, downloader code, phone lock, phone #1, phone #2, phone 1 report mode, phone 2 report mode, HW1 function.
Installer code	4321	You can use the installer code to program most installer options, except for high-security dealer options.
Master code	1234	You can use the master to arm/disarm, enter user programming, and bypass sensors.
User codes 1 to 8	Blank	You can use the user codes to arm/disarm the system.
Duress code	Blank	Use the duress code in place of the master or user code to cause a silent alarm.
Code length	Four digits	Codes can be three to six digits long.

Security

Table 11 below describes the Security menu.

Table 11: Security menu

Function	Default	Description
Account number	00000	Lets you program up to a 10-character alphanumeric account number or delete an existing account number by pressing Disarm. You can enter numerical digits sequentially. To enter letters (A to F only), use the scroll keys to select A to F, and then press OK. To select the next digit, press another number key. When finished, press OK. The CID format only supports account numbers with letters B through F, or numbers 0 through 9 (or a combination of those letters and numbers).
Downloader code	12345	Lets you set a unique five-digit code that is required for initiating Enterprise Downloader sessions. The code must be five digits long and can range from 00000 to 99999. The downloader code must match the downloader access code in the Enterprise account to perform Enterprise sessions.

Function	Default	Description
Phone lock	Off	Prevents resetting of phone/reporting related options when a memory clear is preformed (on) or resets these options to their default values when a memory clear is performed (off). The following are not reset when on: account number, dealer code, code length, call wait cancel, phone numbers 1 and 2, phone report modes 1 to 4, phone lock, downloader phone number downloader code.
Auto arm	On	Determines how long the system protests (announces open/failed sensors) when attempting to arm with open/failed sensors, before bypassing these sensors and automatically arming the rest of the system. The panel protests an arming attempt when it has not received a restore (close) signal from sensors learned into restore-specific sensor groups. Sensors learned into group 26 (fire) cannot be bypassed. When this option is on, the panel announces all open/failed sensors repeatedly for four minutes, then automatically bypasses the open sensors and arms the rest of the system. If a sensor is opened during the exit delay and then left open, the panel will go into alarm after the exit delay has expired. This option must be on for unvacated premises and exit extension to work correctly. When the option is off, the panel displays all open/failed sensors once, then automatically bypasses the open sensors and arms the rest of the system after the exit delay has expired. If other sensors are opened during the exit delay, they will also be bypassed if left open. If group 13 (instant perimeter) sensors are opened during the exit delay, the panel goes into immediate alarm.
Exit extend	On	Determines whether the panel restarts the exit delay time if you enter the armed premises during the initial exit delay period (on), or not (off). Turning on this feature allows you to reenter during the exit delay period, without disarming and then rearming the system. Turning off this feature requires you to disarm and rearm the system. Auto arm must be on for this option to work.
Secure arming	Off	Determines whether an access code is required when arming the system (on), or not (off). This option does not affect key fob arm/disarm operation.
No arm on low battery	Off	Determines whether the system protests arming if a low CPU battery condition exists (on), or not (off).
Quick exit	Off	Determines whether pressing Disarm when the system is armed activates the exit delay time to allow exit and reentry without disarming the system (on), or not (off). This feature is useful if you want to step outside briefly and return. If the system is armed and you press Disarm, the panel announces Exit Time is On, and sounds exit delay beeps. This allows a designated entry/exit door to open for up to two minutes without causing alarm. When the door is closed, the beeps stop and the door is armed again.

Function	Default	Description
Downloader enable	On	Enables programming of system options with downloader software.
Sup protest	Off	Determines whether the panel protests arming if it has not received a supervisory signal from any sensor 15 minutes before arming (on), or not (off). This feature must be turned on for US installations.

Phone numbers

Table 12 below describes the Phone Numbers menu.

Table 12: Phone Numbers menu

Function	Default	Description
Phone #1	Blank	Lets you program up to a 26-digit central monitoring station receiver/voice event notification phone number for monitored systems. Phone digits can be 0 to 9, *, #, or a pause (P). To delete the phone number, press Disarm while editing a phone digit. To add a pause to the phone number, press Bypass. Pressing OK is required if you enter fewer than 26 digits.
Phone #2	Blank	
Phone #3	Blank	
Phone #4	Blank	
Downloader #	Blank	Lets you program up to a 26-digit phone number for the Enterprise Downloader.

Phone options

Table 13 below describes the Phone Options menu.

Table 13: Phone Options menu

Function	Default	Description
Man phone test	On	Determines whether you can perform a manual communication test to verify communication to a central station/voice dial (on), or not (off). If you have all four phone numbers programmed, it should send a test report to all four before showing that the test is okay.
FTC	On	Determines whether the panel and interior sirens sound trouble beeps if it is unable to successfully send a report to a central station (on), or not (off).
DTMF dial	On	Determines whether the panel uses DTMF (on) or pulse (off) for dialing programmed phone numbers.
300 bps enabled	On	Determines whether the baud rate used by the panel for central station communication is 300 bps (on), or 110 bps (off).

Function	Default	Description
Ring hang ring	1	Determines when the panel answers a remote phone access or Enterprise call. Depending on whether an answering machine exists at the panel location, offsite access to the panel can be done with a series of phone calls or just one. For offsite access where an answering machine does not exist, the user or Enterprise operator simply calls the panel location once and listens for 10 rings. The panel should answer after the tenth ring. For offsite access where an answering machine exists, the user or Enterprise operator must call the panel location, and then let the phone ring once and hang up. Wait at least 10 seconds but not more than 40, and then call the panel location again. The panel should answer on the first ring. Ring/hang/ring setting number and sequence of rings after which the panel answers: 1 = Ring/hang/ring or ten rings 2 = Ring/hang/ring/hang/ring or ten rings 3 = Ring/hang/ring/hang/ring/hang/ring or ten rings 4 = Ten rings 5 = Ring/hang/ring 6 = Ring/hang/ring/hang/ring 7 = Ring/hang/ring/hang/ring/hang/ring Off = Disabled, no remote (offsite) access
Dial delay	30 seconds	Determines whether the panel delays dialing programmed phone numbers before sending report (on). If opening (disarming) reports is on, the panel does not delay dialing if the system is disarmed before the delay time expires. The panel dials immediately for both the alarm and opening report. Regardless of this option setting, the panel always dials immediately for fire alarms, AC power failure, and low battery reports.
Call wait code	Off	The call waiting code is dialed by the panel before a phone number to disable call waiting. Verify that the end-user has call waiting with his phone service provider before changing this option from its default. CAUTION: Changing this option from its default without call waiting will prohibit the panel from calling the central station. The call waiting code is programmed the same way as a dialer number.
Line cut detect	Not available	

Sensors

Table 14 below describes the Sensors menu.

Table 14: Sensors menu

Function	Description
Learn sensors	Adds (learns) sensors to panel memory.
Delete sensors	Deletes sensors from panel memory.
Edit sensors	Edits sensor information in panel memory.

The following instructions tell how to add (learn) sensors, touchpads, and other system devices into panel memory. The panel recognizes a sensor when you press a sensor program button, press and release a tamper switch, press a sensor test button, or put a sensor into alarm. Table 15 on page 32 below describes the programming method for each device.

When learning (programming) sensors, the panel uses an ascending sequence starting with 1. You can override this by entering the desired sensor number using the number keys.

To learn (program) a sensor:

1. Scroll until the display shows `System Programming`, and then press OK. The system prompts for an access code.
2. Enter the dealer or installer code and then press OK. The display shows `Access Codes`.
3. Scroll until the display shows `Sensors`, and then press OK. The displays shows `Learn Sensor`.
4. Press OK. The display shows `Trip Sensor ##`, with the number signs flashing.

   If you wish to use a sensor number other than the next one available, use the number keys to enter a two-digit sensor number immediately.
5. Press the sensor program button or release the sensor tamper switch. The display shows `SN ## Grp10 <Front Door>`, with Grp 10 flashing.
6. Use the number or scroll buttons if you want to enter a new group number; press OK to accept the group number displayed. The sensor text flashes.
7. Scroll through the text list, and then press OK to accept the first text segment.
8. You may enter more text or press OK again to finish adding the sensor. The display shows `Trip Sensor ##` (with the next available sensor number).
9. Press Status repeatedly to exit.

To delete a sensor:

1. Scroll until the display shows `System Programming`, and then press OK. The display shows `Enter Code`.
2. Enter your access code and then press OK. The display shows `Access Codes`.
3. Scroll until the display shows `Sensors`, and then press OK. The displays shows `Learn Sensor`.
4. Scroll until the display shows `Delete Sensor`, and then press OK. The display shows `Sn ## Grp## <Text>`.
5. Scroll until the display shows the sensor you want to delete, and then press OK. The display shows `Deleted`, and then shows `Delete Sensor`.
6. Press Status twice to exit.

Table 15: Device programming

Device	To program
Door/window sensor	Press the button on the top of the sensor (cover removed) or trip the tamper.
Motion sensor	Press the button on the back of the sensor (mounting plate removed) or trip the tamper.
Smoke detector	Trip the tamper, press the test button, remove the detector from its base, or put the smoke detector into alarm.
Hardwired sensor	Separate the sensor from its magnet.
CO alarm	Trip the wall tamper by removing the sensor body from the mounting plate.
Freeze and water sensor	Trip the tamper or press and hold the button on the top of the sensor (cover removed) until the control panel confirms programming. If you do not hold the button down long enough, the system will report the sensor as open.
Personal help button	Press the help button until the light blinks.
Remote handheld touchpad	Press the emergency buttons.
Simon XT talking touchpad	Press the Lights Off button on the touchpad six times in rapid succession.
Simon XT talking touch screen	Refer to the touch screen installation instructions.
Key fob	Press the Lock and Unlock buttons at the same time.
ELM key fob	Do the following: 1. Press the Unlock button twice and hold it the third time. The light button flashes three times. 2. Press the Unlock button once and hold it the second time. The light button flashes twice. 3. Press and hold the Unlock button. The light button flashes once. Hold the button until the flashing stops.

Edit sensors

You can use this menu to change the group or name of a sensor that is already in panel memory. The procedure is very similar to the procedure to program sensor information after a sensor is learned in. Pressing Disarm while editing sensor text deletes all text for that sensor.

Note: If you are installing a sensor on a gun case, jewelry box, or a similar case, and the sensor is active in level one, you must subdisarm to avoid putting the panel into alarm when the sensor and the magnet are separated.

Reporting

Table 16 below and Table 17 on page 35 describe the Reporting menu.

Table 16: Reporting menu

Function	Default	Description
Opening reports	Off	Determines whether the panel sends opening reports to a central station whenever the system is disarmed (on), or not (off). The User number will be reported as zone number. Key fobs learned into zones 1 to 40 will report as that zone. Dealer code = 44, Installer code = 45, Master code = 46, User code 1 = 47, User code 2 = 48, User code 3 = 49, User code 4 = 50, User code 5 = 51, User code 6 = 52, User code 7 = 53, User code 8 = 54, Duress code = 55
Closing reports	Off	Determines whether the panel sends closing reports to a central station whenever the system is armed (on), or not (off). The User number will be reported as the zone number. Key fobs learned into zones 1 to 40 will report as that zone. Dealer code = 44, Installer code = 45, Master code = 46, User code 1 = 47, User code 2 = 48, User code 3 = 49, User code 4 = 50, User code 5 = 51, User code 6 = 52, User code 7 = 53, User code 8 = 54, Duress code = 55
Force armed	Off	Determines whether the panel sends by force armed report to a central station if the user bypasses protesting sensors (indirect bypass) when arming the system (on), or not (off).
AC power failure	Off	Determines whether the panel sends AC power failure reports to a central station after the programmed time expires. The time can be set from 005 to 254 minutes. When the panel is without AC power for 30 seconds, the panel LEDs turn off. When the panel is without AC power for the programmed time, an AC power failure is reported. The panel reports an AC power restoral when AC power returns to the panel.

Function	Default	Description
Low CPU battery	On	Determines whether the panel sends a low CPU battery report to the central station when the panel backup battery voltage drops.
Sen alarm restore	Off	Determines whether the panel reports sensor alarm restoral (on), or not (off). Setting when restoral is reported: 1. Immediately after sensor is closed or restored after dial delay 2. After siren timeout expires if sensor is restored 3. When system is disarmed if sensor is restored.
24-hour sensor tamper	Off	Determines whether the system (armed or disarmed) goes into and reports an alarm anytime a sensor tamper switch is tripped (on), or only when the system is armed and a tamper switch of an armed sensor is tripped (off).
Supervisory tamper	Off	Determines whether the panel sends supervisory reports to a central station as a tamper (on), or a supervisory (off). This option is typically used only in Europe where a supervisory condition is required to report as a tamper.
No usage	Off	Determines whether the panel sends a No Usage report to the central station if the user has not operated the system before the programmed time expires (on), or not (off). The timer starts each time the system is disarmed. This is a customer service feature that alerts the central station if a customer is not using their security system. The service provider can then contact the customer to find out why the system is not being used, and help correct any problems for the customer.
Swinger shutdown	On	Determines whether the panel prevents the same sensor from activating an alarm more than once in a single period (on), or not (off). Swinger shutdown does not affect smoke and fire sensors.
Program report	Off	Determines whether the panel sends a report to the central station anytime the programming mode is entered/exited (on), or not at all (off). The panel sends a report whenever the dealer (Utility 1) or installer (Utility 2) code is used to enter programming mode and another report is sent when the programming session ends.
Fire verify	Off	If this option is off, the panel immediately reports to the central station when a smoke detector goes into alarm. With this option on, if a single smoke detector goes into alarm, the panel will not report for 60 seconds unless another smoke detector goes into alarm. If the first smoke detector is cleared of alarm within the first 60 seconds, not report will be sent to the central station unless it or a second smoke detector goes into alarm within the panel siren timeout period (5 minutes).

Table 17: Communication modes

Function	Default	Description
Phone 1 report mode	Off	Determines how the panel sends a report to the central station for each of the phone numbers programmed. The options are: All SIA, All CID, Alarm SIA, Alarm CID, Nonalarm SIA, Nonalarm CID, backup SIA (phone failure backup), Backup CID (phone failure backup), Voice dialer, Off
Phone 2 report mode	Off	
Phone 3 report mode	Off	
Phone 4 report mode	Off	

Alarms include: Fire, Intrusion, Emergency, Silent, and Alarm Cancels.

Nonalarms include: Latchkey, No Activity, Openings, Closings, Fail-to-Open, Fail-to-Close, Force Armed, AC Power Failure, CPU Low Battery, and Trouble Restoral.

Timers

Table 18 below describes the Timers menu.

Table 18: Timers menu

Function	Default	Description
Latchkey time	Off	Determines whether the panel reports a latchkey alarm if the system is not disarmed at a preset time between midnight and 11:59 p.m. (on). If the latchkey feature is disabled (off), the panel will not report a latchkey alarm. The system clock must be set for the latchkey feature to work.
Entry delay	030 seconds	Determines how much time you have to disarm the system after entering the armed premises through a designated delay door, before an alarm occurs. Beeps sound during the entire delay time to remind you to disarm the system. When turned on, the entry delay can be set from 030 to 240 seconds.
Exit delay	060 seconds	Determines how much time you have to leave the premises through a designated delay door after arming the system. Beeps sound after arming the system to remind you to leave the armed premises. If a delay door is opened after the exit delay expires, the entry delay begins. If you arm the system with no delay and open a delay door after the exit delay expires, an alarm occurs.
No activity tm	Off	Determines whether the panel sends a no activity report to a central station when the programmed time elapses (on), or if the feature is disabled (off). No activity means the control panel, remote handheld, and key-chain touchpad buttons have not been pressed and sensors have not been tripped within a specified time (except sensors in group 25 and 43). The timeout can be set from 02 to 24 hours.

Function	Default	Description
Auto phone test	Off	Determines whether the panel automatically performs a periodic phone test (on), or not (off). The test interval can be from 001 to 254 days. The time of day the panel performs the test is determined by the supervisory time, which must be turned on for this feature to work.
Supervisory time	12:00am	Determines when the panel reports supervisory conditions (sensor failures) and automatic phone tests to the central station. The panel clock must be set to the correct time for this option and the automatic phone test to work correctly.
Alarm cancel	006 minutes	Sets the time frame that determines whether the panel reports an alarm cancel message to the central station. If the system is disarmed from an alarm state within the programmed time, the panel sends an alarm cancel message to the central station. An alarm cancel message is not reported if the system is disarmed after the programmed time expires. The time can be set from 006 to 255 minutes. When set to 255, the panel always reports alarm cancel messages. Turning off this option disables alarm cancel reporting.
RF time-out	12 hours	Determines the period during which the panel must receive at least one supervisory signal from learned sensors before identifying a sensor failure and sounding trouble beeps. Any sensor failure is reported immediately and again at the supervisory time. The timeout can be set from 02 to 36 hours. Entries must be two digits.
Fail-to-open time	Off	Determines whether the panel sends a fail-to-open report to a central station if the system has not been disarmed by the programmed time (on), or not (off). System time must be set correctly for this feature to work.
Fail-to-close time	Off	Determines whether the panel sends a fail-to-close report to a central station if the system has not been armed by the programmed time (on), or not (off). System time must be set correctly for this feature to work.
Siren time-out	005 minutes	Determines how long sirens sound alarms if no one is present to disarm the system. The time can be set from 002 to 254 minutes. When this feature is turned off, sirens sound alarms until the alarm is canceled (system disarmed).
Arm LED shutdown	Off	Determines whether the panels LEDs (buttons) turn off 30 seconds after the last button press (on), or remain on for the entire arming period (off).
Unvacated premises	On	Determines whether the system automatically arms down to level 2 (doors and windows) if you arm the system to level 4 (doors, windows, and motion sensors) without leaving the premises (on), or remains at the armed level chosen (off). This feature does not work from a key fob. Autobypass must be on for this feature to work.

Function	Default	Description
Smoke supervision	Off	Determines how often the panel must receive supervisory signals from the smoke sensors. If this option is on, the panel must receive at least one supervisory signal from smoke sensors every four hours or it will identify a sensor failure and sound trouble beeps. If this option is off, the time for receiving supervisory signals is determined by RF timeout.

Touchpad options

Table 19 below describes the Touchpad Options menu.

Table 19: Touchpad Options menu

Function	Default	Description
Keyfob no delay	Off	Determines whether a key fob arms the system with no delay (on), or not (off). When this feature is on, you must disarm the system before entering the premises, since it is disabling the entry delay. If the remote touchpad arming option is on, key fobs cannot disarm the system and will cause an alarm upon entering.
Panic alarms	On	Determines whether the panel panic buttons (police, auxiliary, and fire) activate alarms when pressed (on), or not (off).
Remote TP arm	Off	Determines whether key fobs and remote touchpads can disarm the system only during exit and entry delays (on), or arm and disarm the system anytime (off). If this option and the key fob no delay option are on, you cannot enter and/or disarm using remote touchpads without causing an alarm.

System options

Table 20 below describes the System Options menu.

Table 20: System Options menu

Function	Default	Description
RF jam detect	Off	Determines whether the panel checks for and reports RF interference/jam to the central station (on), or not (off). If this option is on and the panel receives a constant 319.5 MHz signal, the panel reports the condition to the central station. If this option is off, the panel does not detect an RF jam.
Demo mode	Off	Determines whether the panel operates as a demonstration model (on) or a standard panel (off). Turning on this feature disables low battery supervision and allows the microphone to remain on continuously during an AVM session. With this option on, the panel is not testing battery supervision.
HW1 function	1	Determines how the HW1 I/O output will function: Off = no output 1 = interior siren output 2 = output activated when armed 3 = output activated when disarmed 4 = fail to communicate output, activates when fail to communicate condition occurs (the fail to communicate option must be on) 5 = alarm output activated when panel is in alarm
24-hour clock	Off	Determines whether the panel uses a 24-hour clock (on), or a 12-hour clock (off).

Siren options

Table 21 below describes the Siren Options menu.

Table 21: Siren Options menu

Function	Default	Description
Piezo beeps	On	Determines whether the panel piezo produces beeps based on system activity (on), or is silent (off).
Panel voice	On	Determines whether the panel announces arming level changes (on), or not (off).
Panel piezo alarm	On	Determines whether the panel piezo emits alarm sounds (on), or not (off).

Function	Default	Description
Trouble beeps	On	Determines whether the panel and hardwired interior sirens sound six beeps every minute when a trouble condition occurs (on), or not (off). The following conditions cause trouble beeps: AC power failure (when AC power failure report is on) low CPU battery, sensor failure (supervisory), sensor trouble (low battery, tamper, etc.), fail to communicate, restoration of power, no activity timer has timed out (trouble beeps continue for 5 minutes and if the panel does not see activity, trouble beeps stop and the panel reports no activity to the central station). You can silence trouble beeps by arming or disarming the system or by pressing the STATUS button. Trouble beeps resume later if the trouble condition is not cleared.
Voice chime	Off	Determines whether the panel announces the sensor name. 1 = sensor name 2 = loud ding-dong bell 3 = soft ding-dong bell Off = no sound
Status beeps vol	7	Determines the panel piezo volume level for status sounds such as arming, trouble, and status beeps. Volume range is 1 (lowest) to 10 (highest).
HW siren sup	Off	Determines whether the panel monitors hardwired sirens for open conditions (on), or not (off). If this option is turned on, sirens connected to the panel terminals require an EOL resistor in the wire circuit. If this option is turned off, EOL resistors are not required whether sirens are connected or not.
Speaker volume	8	Determines the volume of voice messages from the panel speaker. Volume range is 1 (lowest) to 8 (highest).
Silent police panic	Off	Determines whether pressing the panel police button causes an audible (off) or silent (on) alarm.
Alarm report verify	Off	Determines whether the panel verifies successful alarm reports to the central station by displaying “Phone comm OK” (on), or not (off).

Piezo beep options

Table 22 below describes piezo beep options.

Table 22: Piezo beep options

Activity	Piezo beep response
Arm doors and windows	Exit delay. Two beeps sound every 5 seconds and two times per second during the last 10 seconds. Silent exit. Two beeps sound at the beginning of the exit delay and two more sound just before the exit delay expires. Entry delay. Two beeps sound every 5 seconds and two times per second during the last 10 seconds.
Arm motion sensors	Exit delay. Three beeps sound every 5 seconds and three times per second during the last 10 seconds. Silent exit. Three beeps sound at the beginning of the exit delay and three more sound just before the exit delay expires. Entry delay. Three beeps sound every 5 seconds and three times per second during the last 10 seconds.
Arm doors/windows and motion sensors	Exit delay. Four beeps sound every 5 seconds and four times per second during the last 10 seconds. Silent exit. Four beeps sound at the beginning of the exit delay and four more sound just before the exit delay expires. Entry delay. Four beeps sound every 5 seconds and four times per second during the last 10 seconds.
Disarm	One beep.
Chime	Two beeps (when programmed).
Special chime	Three beeps (when programmed).
Property/asset management beep	One beep (when enrolled).
Trouble beeps	Six beeps every minute. Press Status to stop beeps for 4 hours.
No activity	Twenty beeps every minute for 5 minutes (when programmed).

Audio verification options

Table 23 below describes the Audio Verification Options menu.

Table 23: Audio Verification Options menu

Function	Default	Description
Audio mode	Off	Determines the audio mode. 1 (Instant) = Panel stays online with central station for an instant audio session. 2 (Callback) = Panel hangs up and waits for a callback from the central station operator before starting an audio session. Off = No audio verification.
Fire shutdown	Off	Determines whether system fire sirens are silenced during a two-way audio session (on), or not (off). Beeps sound every 10 seconds while sirens are silenced.
Panic talk	Off	Determines whether the central station operator can talk to the user during a silent alarm (off), or just listen in on the premises (on). Silent alarms occur when sensors learned into groups 02 or 03 are tripped, when the duress code is entered, or when the panel Police button is pressed and the silent panel police panic option is turned on.
VOX RX gain	06	Determines the receiver gain level during two-way audio sessions. If the VOX is switching the speaker on when the central station operator is not talking, lower both this setting and the VOX mic gain setting. If the VOX is not switching the speaker on when the central station operator is talking, raise this setting and lower the VOX mic gain setting. Changing this setting does not affect speaker volume.
VOX mic gain	24	Determines the mic gain (sensitivity) that triggers the voice-activated switching (VOX). Room size, acoustics, and furnishings where the panel is located will influence the setting. Gain range is 01 (lowest) to 64 (highest).
VOX mic gain rng	64	Determines the gain range for voice-activated switching (VOX). Range is 01 (lowest) to 64 (highest). For best results, this option should be set equal to or greater than VOX mic gain. This option works in conjunction with VOX mic gain. It is important to follow the setting recommendations as described to achieve acceptable operation.
Manual mic gain	64	Determines the gain level (sensitivity) during two-way audio sessions when audio mode is set to 0 or 1 (speak). Room size, acoustics, and furnishings when the panel is located will influence the setting. Gain range is 01 (lowest) to 64 (highest).
Fire enabled AVM	On	Turning this option on will enable an AVM session to be initiated following a fire or CO alarm. Turning this option off inhibits the initiation of an AVM session following a fire or CO alarm.

System tests

Table 24 below describes the System Tests menu.

Table 24: System Tests menu

Function	Default	Description
Comm test		The communication test is used to check the phone communication between the panel and the central station or voice report destination.
Sensor test		The sensor test is used to check proper sensor operation.
System download		This feature initiates a phone call from the panel to the Enterprise Downloader.

Resetting memory to factory defaults

To reset the panel to factory defaults:

1. Open the panel cover.
2. Unplug the transformer and disconnect the battery.
3. Press and hold the four arming/status buttons (Doors+Windows, Motions, Disarm, and Status) on the front of the panel and the tamper switch on the inside of the panel.
4. Restore power to the panel with the battery while holding the four buttons and tamper switch.
5. Release the buttons.
6. Plug in the transformer to the outlet.

Note: The procedure to reset memory to factory defaults is meant to be difficult. It is also possible to restore power to the panel by plugging in the transformer first, which allows the panel to be closed so that the tamper switch does not need to be pressed. If you do this, be sure to reconnect the battery.

Program the panel in this order:

1. Set the panel clock.
2. Add (learn) sensors.
3. Change options as needed.

Note: If phone lock is on, phone numbers 1 and 2, downloader phone number, account number, phone lock, downloader code, phone report modes 1 to 4, access code length, and call waiting and dealer code will not reset to their defaults.

Testing

This section describes how to test the system.

Control panel

Test the panel by pressing the buttons as described in Table 25 below. Table 26 below provides a list of the arming levels.

Note: An access code is required when arming if the secure arming option is on.

Table 25: Control panel test sequence

Button	Function tested	Test	Correct result
Doors+Windows	The panel arms door and window sensors.	Press Doors+Windows a second time to eliminate the programmed entry delay.	The button will blink when the no entry delay option is on.
Motions	The panel will arm motion sensors.	Press Motions a second time to turn the latchkey option on.	The button blinks when latchkey is on.
Disarm	The panel will prompt you to enter an access code.	Enter the appropriate code.	The panel will disarm doors, windows, and motion sensors.
Status		Press Status for panel to display and speak the system status.	
Police		Press and hold or press the button twice quickly to activate a nonmedical police, fire, or auxiliary emergency alarm.	
Fire			
Emergency			

Note: Forty key presses for invalid codes (ten invalid 4-digit codes, for example) will cause a system access alarm. The alarm locks all touchpads, except key fobs, for 90 seconds.

Table 26: Arming levels

Arming level	Description	Indication
0	Subdisarms (master access and duress codes only), and bypasses 24-hour intrusion sensors (master access code only). Fire sensors (group 26) cannot be subdisarmed.	One beep indicates the system is subdisarmed. The panel displays and speaks “Subdisarmed”. The Disarm button blinks.
1	Disarm the system.	One beep indicates the system is disarmed. The panel displays and speaks Disarmed. The Disarm button lights.

Arming level	Description	Indication
2	Arm doors and windows.	Two beeps verify that door/window sensors are armed. The panel displays `DOORS+WINDOWS` and speaks Doors and Windows On. The Doors+Windows button lights.
3	Arm motion sensors.	Three beeps verify that motion sensors are armed. The panel displays `Motions` and speaks Motions On. The Motions button lights.
4	Arm doors, windows, and motion sensors.	Four beeps verify that door/window and motion sensors are armed. The panel displays `DOORS+WINDOWS & MOTIONS` and speaks Doors and Windows On, Motion On. The Doors+Windows and Motions buttons light.

Sensors

Test the sensors after all programming is completed and whenever a sensor-related problem occurs.

Note: While the sensor test is a valuable installation and service tool, it only tests sensor operation for the current conditions. You should perform a sensor test after any change in environment, equipment, or programming.

Notify the central station you will be performing a test prior to starting the test.

To test the sensors:

1. Place all sensors in their secured (no alarm) state.
2. Scroll to Sensor Test options under the System Tests menu, and then press OK. The panel will prompt you to trip each sensor one at a time. You may follow the panel prompting or test the sensors in any order. See the Table 27 on page 45 for specific instructions on how to trip each sensor type.

   Interior sirens sound transmission beeps, and the display identifies the tripped sensor and the number of RF packets received. The system will continue to prompt for sensors that have not yet been tested. When all sensors have been tested, the display shows `SN Test Complete Press Status`.
3. Press Status. The display shows `Sensor Test OK`.

   If you press Status and the panel has not heard from all sensors, the displays shows `SN Test Fail or Aborted`.

Table 27: Sensor tripping instructions

Sensor	Do this
Door/window	Open the secured door or window.
Freeze	Remove the sensor cover. Apply ice in a plastic bag to the sensor (for 10 to 15 minutes). Do not allow the sensor to get wet.
Water	Press a wet rag or wet finger over both of the round, gold-plated terminals on the underside of the sensor.
Carbon monoxide alarm	Press and hold the Test/Hush button (approximately 5 seconds) until the unit beeps two times and then release the button.
Glassbreak	Trip the glassbreak sensor with an appropriate glassbreak test tool.
Motion sensor	Avoid the motion sensor field of view for 5 minutes, and then enter its view.
Rate-of-rise heat detector	Rub your hand together until warm, and then place one hand on the detector for 30 seconds.
Shock	Tap the glass twice, away from the sensor. Wait at least 10 seconds before testing again.
Smoke	Press and hold the test button until the system sounds transmission beeps.
Personal help button	Press and hold the appropriate help button until the light blinks and the panel sounds for at least seven beeps.
Key fob	Press and hold the Lock and Unlock buttons simultaneously for 3 seconds.
Simon XT talking touch screen	For sensor testing a 1.0 touch screen, press and hold the Emergency button for 5 seconds. For sensor testing a 1.1 or greater touch screen, press the Settings (the gear) button, scroll down, and then press the RF Test button.
Simon XT talking touchpad	Press and hold the two Emergency buttons simultaneously for 3 seconds
Remote handheld touchpad	Press and hold the two Emergency buttons simultaneously for 3 seconds.

Sensor test failure

If sirens do not beep when a sensor is tripped, use an RF Sniffer (60-401) test tool to verify that the sensor is transmitting. Constant beeps from the RF Sniffer indicate a faulty sensor. Replace the sensor.

If possible, locate sensors within 100 ft. (30 m) of the panel. While a sensor may have a range of 500 ft. (152 m) or more out in the open, the environment at the installation site can have a significant effect on transmitter range. A change in sensor location may help overcome adverse wireless conditions.

To reposition a sensor:

1. Rotate the sensor and test for improved sensor communications at 90 and 180 degrees from original position.
2. If poor communication persists, relocate the sensor.

To relocate a sensor:

1. Test the sensor a few inches from the original position.
2. Increase the distance from the original position and retest until an acceptable location is found.
3. Mount the sensor in the new location.
4. If no location is acceptable, replace the sensor.

To replace a sensor:

1. Test a known good sensor at the same location.
2. If the transmission beeps remain below the minimum level, avoid mounting a sensor at that location.
3. If the known-good sensor functions, contact UTC Fire & Security for repair or replacement of the problem sensor.

Phone communication

Perform a communication test to check the phone communication between the panel and the central station.

To perform a phone communication test:

1. Scroll to the Comm Test option under the System Test menu.
2. Press OK.

   The panel confirms that a communication test has begun. When the communication test is complete, the panel displays `Comm Test is OK` within 3 minutes.

If the test is unsuccessful, the Status button lights and the display shows `Comm Failure` within 10 minutes.

If the test is unsuccessful:

1. Check that the panel is connected to the phone jack.
2. Check the phone number programmed into the panel.
3. Perform the communication test again.
4. If the communication test fails again, check the phone connection wiring.

Offsite phone operation

Test the system from a remote phone by calling the panel and using the commands in Table 28 below.

Table 28: Phone commands

System function	Phone command
Disarm	1
Arm doors/windows	2
Arm motion sensors	3
Arm doors/windows with no entry delay	2 2
Arm motion sensors with latchkey	3 3
Arm doors/windows and motion sensors	2 3
Arm doors/windows with no entry delay and motion sensors with latchkey	2 2 3 3
Specific light on	*, <unit number>
Specific light off	#, <unit number>
All lights on	* *
All lights off	# #
System status	0
Audio verification	5 plus X (X= a command from Audio Verification Set)
Terminate session	9

Central station communication

After performing sensor and communication tests, check that the system is reporting alarms successfully to the central station. Table 29 on page 48 provides a list of sensor/user report codes.

To test communication with the central station:

1. Call the central station and tell the operator that you will be testing the system.
2. Arm the system.
3. Test each of the wireless panic buttons and trip at least one sensor of each type (fire, intrusion, etc.) to verify that the appropriate alarms are working correctly.
4. When you finish testing the system, call the central station to verify that the alarms were received.

Table 29: Sensor/user report codes

Arm or disarm from	Reports as user
Panel or remote handheld touchpad	0
Key fob	1 to 40 (sensor number)
Panel auxiliary panic	41
Panel tamper	42
Panel police panic	43
Panel fire panic	44
Dealer access code	44
Installer access code	45
Master code	46
Access codes 1 to 8	47 to 54
Duress code	55

Two-way voice operation

For the central station operator to initiate an audio session:

1. After the panel has completed reporting the alarm, pick up the CS phone and press the * button to start the audio session.
2. Press 1 or 0 to speak, 2 for VOX operation, and 3 or 6 to listen.
3. Press 99 to terminate the session.

Note: Panel voice announcements are silenced during AVM sessions. If the operator does not terminate the session correctly, panel announcements may not occur for up to 90 seconds after the operator hangs up.

Table 30: Audio verification set

Phone button	Function
0 or 1	Speak
2	VOX operation
3 or 6	Listen
7	Extend session for 90 more seconds
88	Terminates session with call back (the panel answers on the first ring if called within 5 minutes)
99	Terminates session with no call back

Voice event notification

Testing this feature requires two people; one at the alarm site and the other at the location the panel is programmed to call.

To test voice event notification:

1. Contact the central monitoring station (if the system is monitored) to inform them you are testing the system and not to dispatch authorities.
2. At the system site, put the system into an alarm condition.
3. At the calling location, pick up the phone after it starts ringing. You should hear the panel voice announce Press Star for Alarm.
4. Press * and the panel voice identifies the alarm. If there is more than one alarm in progress, you must press * for the panel voice to identify them.

   After all alarms have been identified, the panel announces Press # to Exit.
5. Press # to terminate the call.

   You must terminate the call by pressing #. Otherwise, the panel may not disconnect from the phone line for up to 2 minutes.

Troubleshooting

This section provides information to help you diagnose and solve various problems that may arise while configuring or using your Simon XT.

System status

To clear Status (alarm memory), from a disarmed state press Status, listen to the status message, and then press Disarm.

If the panel displays and announces Siren 1 Failure:

- Turn the hardwired siren supervision option off if a hardwired siren or sensor is not connected.
- Check for the correct end-of-line resistor in the HW1 I/O circuit.

If the panel displays and announces Low Battery:

- Check that the panel backup battery is connected.
- Check the panel backup battery voltage. If less than 5.4 volts, replace the battery and clear the system status message.
- Run a sensor test.

If the panel displays and announces RF Jam, the control panel has detected RF interference.

If the panel displays and announces that a sensor is open, see “Sensors” on page 31.

If the display shows `Set Time` and announces System Time is Not Set, set the system time.

Control panel

If the panel displays and announces Invalid, the sensor is already programmed. Delete the sensor if not programmed correctly.

If the panel does not beep, turn on the piezo beeps option.

If the latchkey does not function:

- The latchkey time may not be set. Set the latchkey time option.
- The latchkey may not be enabled. Enable the latchkey by pressing Motions twice.
- The phone number may not be programmed properly. Reprogram the phone number.
- The system time may not be set. Set the system time.

Sensors

If a sensor does not work:

- Make sure the battery is good and installed correctly.
- Check for interference from metal objects. Move or rotate the sensor.
- Move the sensor to a new location.

If a door or window is closed, but the panel announces it is open:

- Be certain the arrow on the magnet and the guide line on the transmitter are aligned and within ¼ inch of each other.
- The sensor tamper switch may be open (cover off).

If a motion sensor goes off continuously, be sure the sensor is mounted on a solid surface and the viewing field is free from sources of changing temperature.

If a motion sensor does not respond to motion:

- Make sure the sensor battery is good and installed correctly. Wait 2 minutes after installing a new battery to test the sensor.
- Adjust the sensor mounting.
- Leave the area for 3 minutes, then retest.
- The environment may be too hot or too cold. Outdoor sensors operate between 32 and 120ºF (0 and 49ºC).
- Dirt or dust may be causing the problem. Wipe the sensor with a clean, damp cloth.

Specifications

Power	9 VAC, 60 Hz, 25 VA transformer minimum Rechargeable battery: 6.0 VDC, 1.2 Ah lead-acid. The battery will last 24 hours with no AC and specified standby load of 250 mA. Maximum battery charging current is 45 mA. With loss of AC, panel will continue to operate normally to a minimum of 5.1 VDC.
Radio frequency	319.5 MHz
Storage temperature	-29 to 140ºF (-34 to 60ºC)
Operating temperature	32 to 120ºF (0 to 49ºC)
Maximum humidity	85% relative humidity, noncondensing
Auxiliary power	Unregulated 5.3 to 12.3 VDC, with a maximum of 250 mA

Sensor names

The following tables provide alphabetical and numerically sequential lists of the sensor name segments.

Table 31: Alphabetical list of sensor name segments

190	1st	192	2nd	193	3rd
194	4th	171	Alarm	175	Alert
039	Attic	137	Baby	186	Back
004	Back door	005	Back window	030	Basement
031	Basement window	144	Bathroom	010	Bedroom
011	Bedroom window	140	Boy's	161	Carbon monoxide
014	Child's room	015	Child's room window	038	Closet
160	Delay door	026	Den	027	Den window
168	Detector	129	Dining room	136	Door
034	Downstairs	035	Downstairs window	148	Driveway
183	East	172	Emergency	158	Entry
130	Family room	142	Fire	189	First
196	First floor	195	Floor	166	Freeze sensor
185	Front	002	Front door	003	Front window
028	Garage	006	Garage door	007	Garage window
141	Girl's	164	Glass break	012	Guest room
013	Guest room window	155	Gun	156	Hall
036	Hallway	157	Inside	000	Keychain
159	Keyfob	019	Kitchen	020	Kitchen window
131	Laundry	152	Library	017	Living room
018	Living room window	179	Main	180	Master
008	Master bedroom	009	Master bedroom window	167	Medical
037	Medicine cabinet	041	Module	174	Motion
162	Motion detector	150	Mud room	181	North
151	Nursery	024	Office	025	Office window
147	Outside	173	Panic	133	Patio
023	Patio door	146	Pendant	042	Phone module
176	Police	134	Pool	021	Porch
022	Porch window	187	Rear	139	Room
191	Second	197	Second floor	170	Sensor

153	Shed	149	Shop	188	Side
145	Side door	177	Silent police	132	Sliding door
169	Smoke	163	Smoke detector	182	South
029	Special chime	143	Sun room	040	System panic
198	Third floor	001	Touchpad	138	Toy room
178	Transmitter	032	Upstairs	033	Upstairs window
016	Utility room	165	Water sensor	184	West
135	Window	154	Yard		

Table 32: Sensor name segments by index number

000	Keychain	001	Touchpad	002	Front door
003	Front window	004	Back door	005	Back window
006	Garage door	007	Garage window	008	Master bedroom
009	Master bedroom window	010	Bedroom	011	Bedroom window
012	Guest room	013	Guest room window	014	Child's room
015	Child's room window	016	Utility room	017	Living room
018	Living room window	019	Kitchen	020	Kitchen window
021	Porch	022	Porch window	023	Patio door
024	Office	025	Office window	026	Den
027	Den window	028	Garage	029	Special chime
030	Basement	031	Basement window	032	Upstairs
033	Upstairs window	034	Downstairs	035	Downstairs window
036	Hallway	037	Medicine cabinet	038	Closet
039	Attic	040	System panic	041	Module
042	Phone module	043	A	044	B
045	C	046	D	047	E
048	F	049	G	050	H
051	I	052	J	053	K
054	L	055	M	056	N
057	O	058	P	059	Q
060	R	061	S	062	T
063	U	064	V	065	W
066	X	067	Y	068	Z
069	0	070	1	071	2
072	3	073	4	074	5
075	6	076	7	077	8
078	9	079	/	080	◆ (double triangle)
081	!	082	@	083	#
084	$	085	%	086	&
087	*	088	(	089	)
090	"	091	-	092	_
093	+	094	=	095	{
096	}	097	|	098	.

099	<	100	>	101	?
102	(space)	103	a	104	b
105	c	106	d	107	e
108	f	109	g	110	h
111	i	112	j	113	k
114	l	115	m	116	n
117	o	118	p	119	q
120	r	121	s	122	t
123	u	124	v	125	w
126	x	127	y	128	z
129	Dining room	130	Family room	131	Laundry
132	Sliding door	133	Patio	134	Pool
135	Window	136	Door	137	Baby
138	Toy room	139	Room	140	Boy's
141	Girl's	142	Fire	143	Sun room
144	Bathroom	145	Side door	146	Pendant
147	Outside	148	Driveway	149	Shop
150	Mud room	151	Nursery	152	Library
153	Shed	154	Yard	155	Gun
156	Hall	157	Inside	158	Entry
159	Keyfob	160	Delay door	161	Carbon monoxide
162	Motion detector	163	Smoke detector	164	Glass break
165	Water sensor	166	Freeze sensor	167	Medical
168	Detector	169	Smoke	170	Sensor
171	Alarm	172	Emergency	173	Panic
174	Motion	175	Alert	176	Police
177	Silent police	178	Transmitter	179	Main
180	Master	181	North	182	South
183	East	184	West	185	Front
186	Back	187	Rear	188	Side
189	First	190	1st	191	Second
192	2nd	193	3rd	194	4th
195	Floor	196	First floor	197	Second floor
198	Third floor				

Simon XT system quick reference

Task	Instructions
Level 0: Subdisarm the system	Control panel: Enter the master code while the system is disarmed. Telephone: Press 1.
Level 1: Disarm the system	Control panel: Press Disarm and enter your access code. Remote touchpad: Press Disarm. Key fob: Press Unlock. Telephone: Press 1.
Level 2: Arm doors and windows	Control panel: Press Doors+Windows and enter your access code (if required). Remote touchpad: Press Arm Doors+Windows. Key fob: Press Lock. Telephone: Press 2.
Level 3: Arm motion sensors	Control panel: Press Motions and enter your access code (if required). Remote touchpad: Press Arm Motion Sensors. Telephone: Press 3.
Level 4: Arm doors, windows, and motions	Control Panel: Press Doors+Windows, enter your access code (if required) and press Motions. Remote touchpad: press Arm Doors+Windows, and then press Arm Motion Sensors. Key fob: Press Lock twice. Telephone: Press 2 3.
Activate no delay	Control panel: Press Doors+Windows twice. Remote touchpad: Press Arm Doors+Windows twice. Key fob: Press Lock. Telephone: Press 2 3.
Activate latchkey	Control panel: Press Motions, enter your access code (if required), and the press Motions. Remote touchpad: Press Arm Motion Sensors twice. Key fob: Press Lock three times. Telephone: Press 3 3.
Activate panic alarm	Control panel: Press Fire, Emergency, or Police twice within 3 seconds, or hold it for 2 seconds. Remote touchpad: Press and hold both emergency buttons for 3 seconds. Key fob: Press and hold Lock and Unlock for 3 seconds.

Task	Instructions
Check system status	Control panel: Press Status. Remote touchpad: Press System Status. Telephone: Press 0.
Toggle chime or special chime mode	Control panel: Scroll to Chime or Special Chime, press Enter, toggle on/off, and press OK.
Specific light on	Control panel: Press * <unit num> Remote touchpad: Press Light On <unit num> Key fob: Press * Telephone: Press * <unit num>
Specific light off	Control panel: Press # <unit num> Remote touchpad: Press Lights Off <unit num> Key fob: Press * Telephone: Press # <unit num>
All lights on	Control panel: To turn on all lights controlled by lamp modules, press * twice. Remote control: Press Lights On twice. Key fob: Press Lights On. Telephone: Press * twice.
All lights off	Control panel: To turn off all lights controlled by lamp modules, press # twice. Remote control: Press Lights Off twice. Key fob: Press Lights Off. Telephone: Press # twice.
Bypass a sensor	Control panel: Press Bypass, enter your master code, and scroll to the sensor and press Bypass.