Simon XTi User Manual

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Manufacturer

UTC Fire & Security Americas Corporation, Inc.
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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.

FCC registration number: US: B4ZAK02B55910

Canada: 1175C-910CSIXT
Ringer Equivalence 0.2B
Load Number 0.2

Contact information www.utcfireandsecurity.com or www.interlogix.com

Customer support www.interlogix.com/customer-support

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Introduction

The Simon XTi uses wireless technology to warn your family about intrusion, carbon monoxide and fire. The system communicates with a central monitoring station and sends voice messages to an offsite phone.

The security system uses sensors that communicate alarms to the control panel using radio waves. The system is supervised, meaning that the panel checks the status of each sensor to detect problems. If the panel detects trouble, it will notify you with displayed and spoken messages, beeps, and indicator lights. A Simon XTi installation may include any of the devices listed in Table 1 below.

Table 1: Simon XTi system components

Component	Type	Description
Control panel		Operates and programs your security system. It communicates to you through displayed and spoken messages. The panel can communicate to a central monitoring station and send voice messages to your offsite phone.
Touchpads	Simon XT talking touch screen and Simon XT Talking Touchpad [a]	Controls the security system primarily from within the house.
	Key fob [a]	This keychain touchpad controls the security system from within or near the outside of your home.
Sensors	Indoor motion	Detects motion in protected indoor area. When motion is detected, the panel may respond by sounding chimes or an alarm.
	Outdoor motion	Detects motion in a protected outdoor area. When motion is detected, the system may respond by sounding chimes or turning on outside lights. These sensors are not used for intrusion detection.
	Glassbreak sensor	Glassbreak sensors respond to shock waves of breaking glass.
	Door/window	Detects the opening of a door or window.
	Smoke	Detects smoke or a significant rise in temperature. They have a built-in siren that sounds when smoke or a significant rise in temperature is detected.
	Carbon monoxide [a]	Detects carbon monoxide. They have a built-in siren that sounds when carbon monoxide is detected.

a. Not verified for use by UL.

You can send commands or instruct your security system through a series of key presses on the panel, touchpads, or a remote telephone.

Table 2: System communication devices

Device	Description
Control panel	You can enter commands for your security system using the graphical user interface on the panel. Depending on how your system is programmed, you may need to enter an access code for certain commands. An access code is a numeric code that allows authorization to operate your security system.
Simon XT talking touch screen	The two-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 an 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 (Panic, Police, or Fire).
Key fob	Key fobs are handy for simple arming and disarming control functions. They are portable and can be carried offsite in a purse or pocket.
Telephone	Touchtone telephones can be used to communicate with your system while you are offsite. Ask your installer if you have this feature.

Note: The default master code is 1-2-3-4 when the security system is shipped from the factory. You should change your code after your system is installed.

Using the Simon XTi security system

You can operate the self-contained security system through several different methods:

- Use the main screen icons to arm/disarm the system when you enter or exit your home, check system status, and to determine which sensors are active.
- Use the emergency screen to communicate with the central monitoring station to report emergency panic, police, or fire alarms.
- From the home screen, press the Status & Settings  icon to program certain user features. (See System configuration **on page 21**).

  Note: Upon initial installation, the battery may not be fully charged for as long as 36 hours. A low battery icon will be present and trouble beeps will sound until the battery is sufficiently charged. After the initial charge, should the panel lose AC Power and experience a low battery condition, the icon will appear and trouble beeps will sound unless silenced. You can silence trouble beeps by:

  - Arming or disarming the system.

    or

  - Pressing the STATUS & SETTINGS icon and pressing LISTEN next to Panel Status.

  This will disable the sounder for 4 hours but the trouble indication will remain until the battery is recharged.

  Contact your installer to replace your backup battery.

This system is intended to be checked by a qualified technician at least once every 3 years.

Panel controls

The self-contained panel provides the user interface for system operation and programming system functions.

Figure 1: Simon XTi controls

Note: The touch screen in Figure 1 above is an example. Your touch screen and system may be configured differently.

Table 3 below provides a description of the panel's graphical user interface and audio.

Table 3: Panel features

Control	Description
Piezo siren	Provides alarm beeps and status beeps.
Touch screen	Provides a graphical user interface for programming and system operation.
Microphone	Used to communicate with the central monitoring station after an alarm.
Speaker	Provides voice output and sounds key beeps.

Designer template

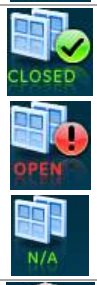
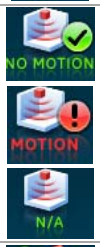
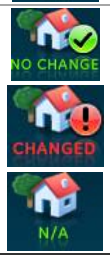
The designer template is the adhesive-backed plastic template that covers the front of the Simon XTi panel.

Caution: The designer template and its installation are integral parts to the reliability of the system. Contact your security system installer to replace the designer template.

Main touch screen display

While the panel is idle, the screen displays:

Table 4: Main screen icons

	Access the emergency screen to select the appropriate emergency icon (Panic, Police, or Fire).
Time	The current system time
	Depicts the status of the AC power and backup battery. A red power cord represents loss of AC power to the system. A green power cord icon represents AC power to the system. A red battery icon represents battery low. A green battery icon represents a fully charged battery. **Note**: These icons only appear in red on the main screen if the backup battery is not fully charged or the AC power is not working correctly. It is recommended that the backup battery be replaced every 3-5 years. Contact your installer to replace the backup battery.
	This yellow triangle indicates faults within the system.
	Depicts monitored door status. A green check indicates all monitored doors are closed. A red exclamation point indicates one or more doors are open. N/A indicates your system is not configured to support door sensors.
	Depicts monitored window status. A green check indicates all monitored windows are closed. A red exclamation point indicates one or more windows are open. N/A indicates your system is not configured to support window sensors.
	Depicts motion detected by the motion sensors in your home. A green check indicates no recent motion detected. A red exclamation point indicates motion was detected within the last 10 minutes. A typical use for this feature would be to have a touch screen in the garage to see if movement is detected in the home before you enter the home. N/A indicates your system is not configured to support motion sensors.
	Depicts other changes to protected property in your system. For example activation of a water sensor, freeze sensor, or the movement of protected items. A green check indicates no change since the last time you visited (for movement of a protected item) and all sensors are closed (water or freeze sensors). A red exclamation point indicates either a sensor is tripped or there is unacknowledged activity. N/A indicates your system is not configured to support property sensors.

	Depending on the current arming state of your machine, one of these icons will be displayed. Press the ARM icon to access the Arming Screen. Press a DISARM icon, and provide a valid access code, to disarm your system. **Note**: When disarming the system, only intrusion/burglary sensors are disarmed. Environmental sensors, such as smoke and carbon monoxide detectors, stay active at all times. **Note**: Depending on your configuration, the Motions Only icon may not appear.
	Press to access the settings screen.

Simon XTi features

The Simon XTi features provide you with the ability to perform the following functions:

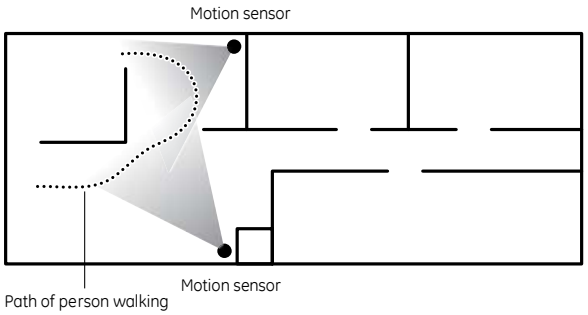
- Arm perimeter (doors and windows) and interior (motion) sensors to indicate intruders.
- Use the emergency screen to send quick response alerts to the central monitoring station.
- Access the system from a key fob (similar to the one used for your car).
- Access the system from a remote telephone.
- Disable sensors so you can leave a window open while the system is armed.
- Get an audio alert when a protected door is opened while the system is disarmed.
- Get an audio alert if movement of a protected asset is detected (group 43).

Cross-zoning

Cross zoning (two-trip) refers to two different motion sensors that must be tripped within two minutes of each other to report an alarm to the central station. Figure 2 on page 7 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.

Note: Contact your installer for more information.

Figure 2: Cross-zone diagram



Home security

The Simon XTi allows you to control which sensors are active at any given time. Table 5 below describes the arming levels that you can set from the control panel.

Table 5: Arming levels

Level	Function	Description
1	Disarm	In this level, only 24-hour sensors are active. Environmental sensors (such as smoke or carbon monoxide detectors) stay active at all times.
2	Arm door and window sensors (away)	This level arms the door and window sensors, while leaving the interior motion sensors disarmed.
3	Arm motion sensors (stay)	This level arms the interior motion sensors, while leaving the exterior door and window sensors disarmed. **Note**: Depending on your configuration, this option may not appear.
4	Arm doors/windows and motion sensors	This level arms all sensors.

Arming/disarming

Arming a sensor makes it active and allows the panel to generate an alarm when a door or window is opened or when an unauthorized person enters a specific area. Disarming makes the sensor inactive in the system. The current arming level is shown on the screen (see Table 4 on page 5) and changes in arming level are announced on the speaker.

Arming errors

If you select an arming option on the Arm screen, and there is an arming problem, an arming error message screen will appear, indicating what the problem is and how to correct it. For example, you might see a message that indicates that you need to close the front door.

Correct the problem as indicated or press Bypass. You will see the arming countdown message at the bottom of the screen. You can press Cancel and enter your code to stop the arming process.

Figure 3: Pre arm screen

To disarm (level 1):

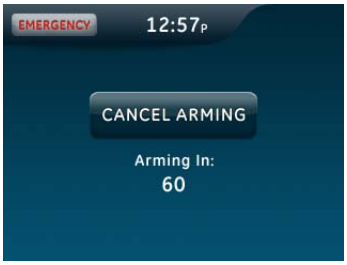
1. Press PRESS TO DISARM.
2. Enter your code when the keypad screen appears.

The panel displays and speaks Disarmed and the panel beeps once.

To arm doors and windows (level 2):

1. Ensure that all doors and windows are closed.
2. Press  .
3. Press DOORS & WINDOWS ONLY (STAY) (see Figure 3 above).
4. If a code is required, enter your code when the keypad screen appears.

   The panel speaks Doors and Windows On and starts an exit delay, and sounds exit beeps in groups of two until the exit delay expires. To cancel arming press CANCEL ARMING on the countdown screen.



To arm motion sensors (level 3):

1. Press  .
2. Press MOTION SENSORS ONLY (AWAY) (see Figure 3 on page 8).
3. If a code is required, enter your code when the keypad screen appears.

   The panel speaks Motions On, starts an exit delay, and sounds exit beeps in groups of three until the exit delay expires.

   Note: Depending on your configuration, this option may not appear.

To arm doors, windows, and motion sensors (level 4):

1. Press  .
2. Press ARM ALL (AWAY) (see Figure 3 on page 8).
3. If a code is required, enter your code when the keypad screen appears.

   The panel speaks Doors and Windows On, Motions On, starts an exit delay, and sounds exit beeps in groups of four until the exit delay expires.

Unvacated premises

Unvacated premises is a feature that 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 opening or closing a perimeter door (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.

Ask your installer how this option is programmed.

Swinger shutdown

This setting determines if a sensor or zone will go into alarm only once during an arming period (an active arming level) and will not be active again until the alarm is canceled (Swinger Shutdown is enabled) or the sensor or zone will always be active and will go into alarm multiple times during an arming period (an active arming level) without canceling the alarm (Swinger Shutdown is disabled).

Note: Swinger shutdown does not affect Smoke, Fire, Carbon Monoxide and Environmental sensors.

Ask your installer how this option is programmed and have them explain how it will affect your system operation.

Exit/entry delay

Your Simon XTi provides a delay after entering or exiting your home before the system is armed or disarmed. Table 6 below provides details for the entry and exit delay features.

Table 6: Entry and exit delay details

Function	Description
Entry delay	Some active sensors cause immediate alarms when tripped. Other sensors, if enrolled in a delayed response group, start an entry delay that lets you enter the premises and disarm the system. When you enter your home, you will hear beeps during the entry delay (see "Status beeps" on page 17). If the system has not been disarmed by the end of the entry delay, an alarm occurs. The entry delay time is programmed by the installer.
No delay	If the system was armed with the no delay feature activated, there will be no entry delay and the alarm will occur immediately.
Exit delay	The exit delay is the amount of time the system gives you to exit the home before the system is armed. During the delay, you can vacate the premises through a delayed response door without causing an alarm. Beeps will sound during the exit delay (see "Status beeps" on page 17). The exit delay time is programmed by the installer.
Protest during arming	The system may protest an arming level change if certain abnormal conditions exist. If a sensor that is active in the requested arming level is open, the system sounds protest beeps and automatically bypasses the open sensor (depending on the system configuration).

Silent exit

The silent exit feature silences the status beeps that accompany the exit delay. Press ON next to Silent exit (Figure 3 on page 8) before pressing the arming level icon to silence status beeps. The panel will still beep at the beginning and end of the exit delay.

Note: Enabling silent exit doubles the exit delay time.

No entry delay

Use the no entry delay feature when you are staying at home, or when you are away from home and will carry a wireless keyfob to disarm the system before opening a protected door. Check with your installer to find out how this option is programmed.

1. Close all door and windows.
2. Press 

.
3. Press the OFF next to Entry Delay (see Figure 3 on page 8).
4. Press your desired arming level. The arming countdown begins.

   The screen displays (clock with a red strike through) with your arming level and speaks Doors and Windows On, No Entry Delay.

Note: To avoid causing an alarm, you must disarm the system with a wireless keyfob before entering your home.

Quick exit

Use the quick exit feature when you want to briefly leave the house while the system is stilled armed (for instance to get the newspaper). This feature must be enabled by your installer.

To enable Quick Exit:

1. Press PRESS TO DISARM.
2. Press 

on the touch screen.

   This allows a designated exit door to be open for up to 2 minutes without triggering an alarm.

Note: The designated door may be opened and closed only once. If you close the designated door behind you when you exit, you will need to disarm the system upon re-entering. Leave the designated door open while using the quick exit feature.

Exit delay extension

If enabled by your installer, the exit delay extension feature will recognize when you arm the system, leave your house and then quickly re-enter (for example, if you forget your car keys). If this happens, the system will restart your exit delay to give you the full exit delay again.

Bypassing sensors

Bypassing a sensor allows you to open the sensor while the system is armed. For example, if your doors and windows are armed and you want to open your kitchen window, but do not want to disarm the entire system, you can bypass the kitchen window sensor and then open the kitchen window without causing an alarm. Bypassed sensors are automatically unbypassed when the arming level is changed to a level where the sensor is not active.

To bypass, or unbypass, a sensor:

1. Press  .
2. Press SELECT 

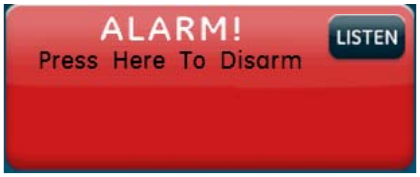
.
3. Enter your master code.
4. Next to the sensor name, select 

to bypass the selected sensor, or 

to not bypass the selected sensor.

Alarms

The system provides a series of alarms that indicate an unusual occurrence. When an alarm is active, the red alarm pop-up display shows with a message explaining what caused the alarm:



To listen to and cancel an alarm:

1. If you would like to hear additional alarm information, press Listen.
2. To cancel the alarm, press the red alarm icon and enter a valid master or user code.

After alarms are canceled, the system will be disarmed.

Fire alarm verification

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 an alarm within the first 60 seconds, no 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).

Ask your installer how this option is programmed.

Canceling and preventing accidental alarms

One of the biggest concerns you might have regarding your security system is causing an accidental alarm. Most accidental alarms occur when leaving the residence after arming the system or before disarming the system upon your return.

There is a communicator delay (dialer delay) of 30 seconds programmed into the panel. The panel will delay 30 seconds before dialing the central monitoring station remote phone to send reports. You can have your installer program this delay time between 15 and 45 seconds. To cancel an accidental alarm before the programmed dialer delay time expires, press the red alarm pop-up and enter your access code. The panel will speak `Alarm Cancel` and sound beeps.

Note: There is no dialer delay for fire alarms.

Guidelines for preventing accidental alarms

Use the following guidelines to prevent accidental alarms:

- Close doors and windows before you leave your house.
- Gather your belongings, so you can exit immediately after arming the system.
- Always enter and exit within the programmed delay times.
- Make sure you leave through a door that has a delay time set for it.
- Disarm your system immediately upon returning home.
- Be aware of the devices in your system and learn how each one operates.
- If you have pets, ask your installer if you need pet lenses in your motion detectors.
- Check the location of your smoke detectors. Smoke detectors near bathrooms and kitchens can be tripped by steam and smoke formed by cooking.
- Make a note of the display, system beeps, and indicator lights that indicate the current system status.

Chimes

Use the chime feature to signal when a protected door is opened while the system is disarmed. The panel chimes twice when a chime sensor is tripped, if the chime mode is enabled. This feature allows you to be notified when family members are going in and out of your home. The chime and special chime features are turned on or off in the System menu. See “Chime” on page 23 and “Special chime” on page 24.

Note: If there are no chime sensors in your system, the chime option will not appear in the System menu.

Voice chime

Your installer may have programmed the system to speak the sensor name or make a custom chime sound when a chime sensor is tripped. The chime sound, if programmed, will be played in place of the standard chime beeps.

Special chime

The special chime feature allows you to install motion sensors in a patio or at the front door, and be notified when someone is approaching those areas. These motion sensors are not used for intrusion protection. The panel will chime three times, if the special chime mode is enabled.

Note: If there are no special chime sensors in your system, the special chime option will not appear in the System menu.

System status

Press  and then press 

next to Panel Status (no code is required) to cause the system to speak the following types of information:

- Alarm conditions
- Alarm history
- Trouble conditions
- Open sensors
- Bypassed sensors

The  icon and 

icon have a ⚠ when an abnormal condition such as a trouble sensor exists in the system.

You can clear certain status entries from the system (such as old alarm history) by listening to the message or by pressing Clear next to Panel Status in the Status & Settings screen.

Using an offsite phone

(This feature has not been verified for use by UL.)

If enabled by the installer, you can control your Simon XTi system remotely from an offsite phone. The panel answers a phone call according to the dialing method programmed by your installer.

After a certain combination of rings and pauses, the panel will answer the call with the voice prompt Enter Your Code. You must enter the correct code to gain access.

If you are interacting with your panel and the panel hangs up on you, the system is calling in a report to the central monitoring station or remote phone due to an action by you or someone at the security system site. The actions listed in Table 7 below may be performed from an offsite phone.

Table 7: Phone controls

Action	Phone key presses	Comments
Disarm	1	System not already disarmed

Action	Phone key presses	Comments
Arm doors and windows	2	Press 2 again to activate the no delay feature
Arm motion sensors	3	
Arm doors, windows, and motion sensors	2 3	
Listen in to house	5 to listen in to the house Once in listen in to house the following options are available: • 0 or 1 to speak • 3 or 6 to listen • 7 to extend call	When in this mode, the user cannot re-enter the previous menu. You must hang up and call back in to the panel to perform additional functions.
Check status	0	
Hang up	9	

Key fobs

Touchpads are used to control the security system from any location within or near your home.

Key fob

If your installer programmed the key fob with no entry delay, and you arm the system with the key fob, you must disarm your system before entering the home to avoid causing an alarm.

If your installer programmed your system for remote touchpad arming, you must enter your home to start the entry delay before you can use your key fob to disarm the system.

Caution: To avoid causing false alarms, check with your installer on how your touchpad/key fob options are programmed.

Panic alarms need to be silenced from the panel, a remote touchpad, or another key fob. They cannot be silenced from the same key fob that activated the alarm.

For any key press on the key fob, hold the button until the indicator light blinks. The key fob has the following buttons:

- Lock (closed lock icon)
- Unlock (open lock icon)
- Star (star icon)
- Light (light bulb icon)

Table 8 on page 16 describes how to use the key fob buttons.

Table 8: Key fob button operation

Task	Instructions
Arm doors and windows.	Press the Lock button once.
Arm doors, windows, and motion sensors.	Press the Lock button twice.
Send a panic (intrusion, silent, or emergency) alarm to the central monitoring station.	Press the Lock and Unlock buttons simultaneously for 3 seconds. (Check with your installer to find out how the key fob panic buttons will operate.)
Disarm your security system.	Press the Unlock button once.

How your system communicates

Your system communicates by using status beeps, alarm sirens, panel screen messages, and trouble beeps.

Status beeps

The panel sounds status beeps to alert you to various system events and conditions.

Note: You may receive a different number of status beeps if you press the icons quickly.

Table 9: Status beeps

Activity	Beep response
Doors+Windows	Exit delay and entry delay beeps sound two times every 5 seconds and two times per second during the last 10 seconds. If silent exit is used, the exit delay beeps will only sound twice when you arm and twice when the exit delay expires.
Motions	Exit delay and entry delay beeps sound three times every 5 seconds and three times per second during the last 10 seconds. If silent exit is used, the exit delay beeps will only sound three times when you arm and three times when the exit delay expires.
Doors+Windows and Motions	Exit delay and entry delay beeps sound four times every 5 seconds and four times per second during the last 10 seconds. If silent exit is used, the exit delay beeps will only sound four times when you arm and four times when the exit delay expires.
Disarm	One beep.
Chime	Two beeps.
Special chime	Three beeps.
Trouble beeps	Six beeps every minute. Press Listen next to Panel Status to stop beeps for 4 hours.
No activity beeps [a]	Twenty beeps every minute for 5 minutes (feature must be programmed by the installer).
Property/asset management beep [a]	The panel sounds one beep when an asset group sensor is activated (information displays only on the Two-Way Talking Touch Screen).

a. These features have not been verified for use by UL.

Alarm sirens

Exterior and interior sirens make three different alarm sounds on the premises, each indicating a different type of alarm. Sirens are programmed by the installer to time out and stop sounding after a specified time.

Table 10: Siren sounds

Function	Fire	Intrusion	Emergency
Interior and panel siren	Temporal 3	Steady	Fast on/off
Exterior siren	Temporal 3	Steady	

Note: Temporal 3 refers to a continuous pattern of three siren pulses, then off for 1.5 seconds, three siren pulses, then off for 1.5 seconds.

Trouble beeps

Your security system is able to automatically test itself for:

- Power failures
- Low batteries
- Sensor supervision
- Communication trouble with the central monitoring station

When your system detects one of the problems above, six rapid beeps sound every minute until the trouble condition is corrected. To stop the trouble beeps, press  and then press the 

icon or arm then disarm the system while the trouble condition exists. Trouble beeps will resume 4 hours later unless the trouble condition is corrected.

Table 12 describes the trouble beep conditions.

Table 11: Trouble beep conditions

Condition	Description
AC power failure	This condition (if programmed by the installer) occurs if your security system has been accidentally unplugged or if there has been an AC power outage. The  icon will appear in the top left corner of the screen display, and trouble beeps start after 5 minutes. If AC power is not restored within a programmed period of time (5 to 254 minutes), the system will call the central monitoring station. The backup battery, if fully charged, will last for 18 to 24 hours (depending on the load applied to the panel) with no AC power. In a UL Installation, a new, fully charged battery will last 24 hours with the panel in normal standby condition and still sound an alarm.

Condition	Description
System battery failure	This condition occurs if the emergency backup battery has failed. Trouble beeps will start and the  icon will appear in the top left corner of the STATUS & SETTINGS screen. If your AC power is not working, your security system will shut down once the battery has failed. If the condition does not clear after AC power has been restored and 24 hours have passed, call your security system dealer.
Restoration of power	This condition occurs after a complete loss of power (AC and battery). When power is restored, the panel will return to the arming state with the same zones bypassed it had prior to losing power.
Sensor failure	This condition occurs if a sensor is not communicating with the panel. Trouble beeps will start. You may need to call your security system dealer if the problem continues.
Sensor low battery	This condition occurs if a system sensor has a low battery. The sensor may still be communicating with the panel. Trouble beeps will start. Press  and then press  in the STATUS & SETTINGS menu. The panel will speak which sensors have low battery. You may need to call your security system dealer to resolve this problem. Some sensor batteries can be replaced by the homeowner.
Failure to communicate	This condition occurs if your security system could not communicate successfully to the central monitoring station. Your system will try to report to the central monitoring station eight times before it tells you there is a fail-to-communicate problem. Trouble beeps will start and the yellow triangle appears over the settings icon. You may need to call your security system dealer if the problem continues.
Sensor open	This condition occurs if a door or window is open or a system sensor has been disturbed and not reset properly. For example, a door/window sensor magnet may have been removed from the sensor. Your system will indicate this condition to you by displaying a red SENSOR OPEN icon (see Table 4 on page 5) and show the  icon in the bottom right of the main screen. Correct the problem by resetting the sensor. If this condition continues, call your security system dealer.

Condition	Description
Sensor tampered	This condition occurs when a sensor is physically tampered with, for example, that the cover is taken off one of the sensors. If the system is armed, an alarm will occur. Sensor icons change to red (see Table 4 on page 5),  icon appears, and the red alarm pop-up will appear if the system is armed. Trouble beeps will start. Correct the problem by resetting the sensor. If this condition continues, call your security system dealer.
RF jam detected	The panel receiver may be experiencing some interference. The system will call to notify the central monitoring station about this problem.
Clearing status	Some types of status conditions, such as alarm history, must be cleared manually. To clear system status, press CLEAR next to Panel Status in the STATUS & SETTINGS menu. If the trouble condition was a low system battery, perform a sensor test. The  should disappear if all trouble conditions have been corrected.

System configuration

Your Simon XTi security system allows you to program certain user options. These options are accessed through the settings menu.

Settings menu

To enter the settings menu, press  located at the bottom right of the main screen.

Press 

to exit a menu or option edit mode and navigate up one level. The panel automatically returns to the main screen after one minute of inactivity (4 minutes while performing a sensor test , 5 seconds while entering an access code).

Code options

The Simon XTi security system provides a system of codes to be entered when a certain level of authority is required to perform an action. These codes allow you to activate system options, customize panel operations, and generate a silent alarm. The default code is based on the code length (3, 4, 5, or 6-digit code) determined at installation. The code types are listed in Table 12 below.

Table 12: Code types

Code	Description
Master code	The master code is the main code used for panel operations. The default code will be 123, 1234, 12345, or 123456 depending on the value set by the installer for code length.
User codes 1 through 8	These eight codes are supplemental user codes. You can use these codes for panel operations such as disarming, but not programming. These codes can be any 3, 4, 5, or 6-digits, depending on the code length.
Duress code	Use the duress code to generate a silent duress alarm while disarming.

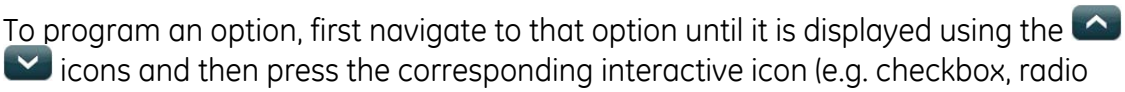
Note: Any combination of invalid codes in excess of 40 key presses (such as fourteen invalid three-digit codes) will cause a system access alarm. The alarm locks all touchpads, except key fobs, for 90 seconds.

Menu navigation

Each menu contains a list of options and/or submenus. Changing screens and navigating menus is accomplished by using the various on-screen interactive icons. When accessing menus such as Programming or System Tests, the panel prompts you to enter an access code. To continue, enter your master code on the keypad and then press OK.

A gold icon indicates an option is selected.

A blue icon depicts indicates an option is not selected.

To program an option, first navigate to that option until it is displayed using the  icons and then press the corresponding interactive icon (e.g. checkbox, radio icon, data entry window etc.) If pressing the option value's interactive icon transitions to another screen, make your changes there and press save or cancel when done.

Press  to enter the STATUS & SETTINGS menu.

Table 13: Settings Menu structure

Event History		
Direct Bypass		
Panel Status		
Chime Optional. Ask your dealer for more information. **Note**: Has not been investigated by UL.		
Special Chime Optional. Ask your dealer for more information. **Note**: Has not been investigated by UL.		
Lights Optional. Ask your dealer for more information. **Note**: Has not been investigated by UL.		
Door Locks Optional. Ask your dealer for more information. **Note**: Has not been investigated by UL.		
Voice Volume		
Beep Volume		
Brightness		
Default Screen		
Calibration		
Help		
Set Date/Time		
System Tests	Sensor Test	
	Comm Test	
	System Download	
Programming	Access Codes	Master Code
		User Codes 1 to 8
		Duress Code
	Security	Downloader Enable
	Phone Numbers	Phone Number 4

	Siren Options	Panel Piezo Beeps
		Panel Voice
		Panel Piezo Alarms
	System Tests	Sensor Test
		Comm Test
		System Download
	Interactive Services **Note**: Optional. Ask your dealer for more information. Has not been investigated by UL.	
Version		

Event History

The panel will keep a history of the most recent 40 events. Press Show, next to Event History, to see them listed chronologically with the newest event at the top of the list.

Note: If a # appears in the Event History list, the event was not sent to the central station.

Direct Bypass

The panel will allow learned in sensors that are actively armed to be bypassed, so that they will not cause an alarm when the panel is armed. Press Select, next to Direct Bypass, and provide a valid access code to access this menu. The list shows all of your sensors with their current state (bypassed or not bypassed), press the state to change it.

Panel Status

Press the Listen, next to Panel Status, to have the panel speak the current status of the panel. If the 

icon appears a trouble condition has occurred. Press Clear to clear certain panel status messages.

Chime

To enable or disable the chime feature:

1. Enter the Status & Settings menu and scroll to the Chime option.
2. Press On or Off to modify the setting (a gold icon indicates the option is selected).
3. Press Close to exit the Status & Settings menu.

Note: This menu option will not appear if chime sensors are not in your system.

Special chime

To enable or disable the special chime feature:

1. Enter the Status & Settings menu and scroll to the Special Chime option.
2. Press On or Off to modify the setting (a gold icon indicates the option is selected).
3. Press Close to exit the Status & Settings menu.

Note: This menu option will not appear if special chime sensors are not in your system.

Voice Volume

From the Status & Settings screen, next to Voice Volume, press the left arrow to lower the voice volume and the right arrow to raise the voice volume. The bars between the arrows register the volume level. No bars is off. Four bars is loudest.

Beep Volume

From the Status & Settings screen, next to Beep Volume, press the left arrow to lower the beep volume and the right arrow to raise the beep volume. The bars between the arrows register the volume level. One bar is softest. Four bars is loudest.

Brightness

From the Status & Settings screen, next to Brightness, press the left arrow to make the screen less bright and the right arrow to make the screen more bright. The bars between the arrows register the brightness level. One bar is least bright. Four bars is brightest.

Default Screen

From the Status & Settings screen, press MAIN or BLANK next to Default Screen. To make options visible on a blank screen, touch anywhere on the screen. The screen will stay visible for two minutes before returning to blank mode, if untouched. The green AC power icon will blink when in BLANK mode.

Note: The touch screen will automatically blank at 2:00 am daily for 60 minutes. Touch the screen to reactivate.

Calibration

The touch screen should arrive with proper screen calibration. This feature should only be used if there is a problem with your touch screen's calibration.

To calibrate the screen:

1. From the Status & Settings screen, press SHOW next to Calibration.

2. Touch the center of the cross using a soft, fine point as it appears in each corner of the screen.

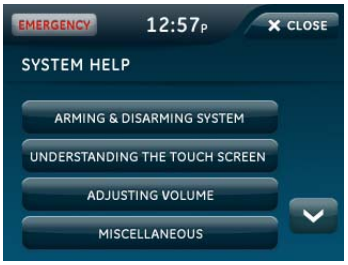
After the cross in the fourth corner (bottom right) is pressed, the user will be returned to the Status & Settings screen.

Help

Press the Help icon to access a menu showing how to perform basic tasks on your Simon XTi.

1. From the Status & Setting screen, press the HELP icon.

2. From the SYSTEM HELP screen, choose the help topic to search.



3. Press and to scroll through help topics.
4. Press CLOSE to return to the previous screen.

Set time and date

If the panel loses both AC and battery power, upon power restoral the system time will reset to midnight and the date will reset to 1 - 1 - 2000, indicating it has not been set correctly.

Time format is: hour/minute/a.m. or p.m.

Date format is: month/day/year:

To set the time

1. From the Status & Settings screen, select Set Date/Time.
2. Enter master access code.
3. From the Set Date/Time screen press the first box to set hour and press SAVE.
4. Press the second box to set minutes and press SAVE.
5. Press a.m/p.m. box to toggle a.m/p.m. setting.

To set the date

1. From the Set Date/Time screen press the first box in the second row to set month and press SAVE.
2. Press the second box to set day and press SAVE.
3. Press the third box and enter the year and press SAVE.

4. Press CLOSE repeatedly to exit.

Emergency icon

In an emergency, touch the Emergency icon. An Emergency screen appears (See Emergency icon in Table 4 on page 5). You will see three icons (Panic, Police, or Fire). Select the appropriate icon.

Note: If your system is connected to a security monitoring service, the authorities will be notified. This option may not be enabled. Contact your dealer for details.

If you initiate an emergency alarm by mistake, you can cancel the alarm by touching the red alarm icon ("Alarms" on page 12) and entering your code within 30 seconds (typical time limit, contact your dealer for more information on your system configuration).

System tests

This menu lets you run sensor and communication tests, and initiate a phone call from the panel to Enterprise Downloader. For more information, see "Testing" on page 31.

Programming

To enter programming mode:

Note: Programming mode can only be entered if the system is disarmed.

1. Enter the Status & Settings menu.
2. Scroll until Programming is listed, press the Enter icon.
3. Enter your master code, and then press OK.

   Note: You have four seconds between number presses to enter the code or you will be returned to the home screen.

At this point, you are in the Programming menu. At this level, the following submenus are accessible:

- Access Codes
- Security
- Phone Numbers
- Siren Options
- System Tests
- Interactive Services (Optional. Ask your dealer for more information.)

The sections below describe the options that you can program in each of the programming submenus.

Access codes

There are three types of access codes:

Master code. The master code is your most powerful code and can be used for all user operations including programming. The initial value of the master code is 123, 1234, 12345, or 123456, depending on the installer-programmed access code length.

User codes 1 to 8. There are eight user codes, which can be used for many user operations, but not programming or bypassing sensors. Initially, all user codes are blank. A user code can be deleted by pressing Delete while the code is being changed.

Duress code. The duress code, when used in place of another user code, generates a silent duress alarm that is reported to the central monitoring station. Initially, the duress code is blank. The duress code can be deleted by pressing Delete while the code is being changed.

To add/edit access codes:

1. From the Programming screen, press ACCESS CODES.
2. To add or edit an access code, press the white field next to the access code.
3. Enter the new/edited code on the numbered keypad and press SAVE.
4. Press CLOSE repeatedly to exit menus.

Security

The Security menu contains the Downloader Enable option. This option determines whether your dealer can access the system remotely.

To program the download enable option:

1. From the Programming screen, press SECURITY.
2. Press the Security icon.
3. To turn on an option, press ☐. To turn off an option, press ☑.

   Note: ☑ indicates the option is turned on.
4. Press CLOSE repeatedly to exit menus.

Phone numbers

Phone number 4 is the only system phone number that you can change. Therefore, it is often used for voice reporting alarms to your phone and can be programmed for this purpose by the installer.

Note: Certain system options must be programmed by the installer for voice reporting alarms to work properly.

To add/edit phone number 4:

1. From the Programming screen, press PHONE NUMBERS.
2. To add or edit a phone number, press the white field next to the Phone Number 4.
3. Enter the new/edited phone number on the numbered keypad and press SAVE. To delete a phone number, press DELETE.
4. Press CLOSE repeatedly to exit menus.

Sirens options

The panel has two built-in sound sources, a piezo siren and a speaker. 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 (such as trouble or chime beeps, entry and exit delay beeps, or emergency alarm beeps) is controlled by the Beep Volume in the Status and Settings screen. The speaker emits the panel's voice and sounds beeps when a key is pressed. The siren volume is also programmable.

The siren and built-in speaker options consist of the following:

Panel piezo beeps. (Status beeps sounded on the siren.) This option determines whether the panel sounds nonalarm beeps. To program piezo beeps:

1. From the Programming screen, press SIREN OPTIONS.
2. To turn on panel piezo beeps, press ☐. To turn off, press ☑.

   Note: ☑ indicates the panel piezo beeps are turned on.
3. Press CLOSE repeatedly to exit menus.

Panel voice. (Spoken phrases on the speaker and key press sounds from the speaker heard while controlling the system.) This option determines whether the panel speaks status messages and arming level changes. To program panel voice:

1. From the Programming screen, press SIREN OPTIONS.
2. To turn on panel voice, press ☐. To turn off, press ☑.

   Note: ☑ indicates the panel voice is turned on.
3. Press CLOSE repeatedly to exit menus.

Panel piezo alarms. (Loud alarms on the siren). This option determines whether the panel sounds alarm beeps. To program panel piezo alarm:

1. From the Programming screen, press SIREN OPTIONS.
2. To turn on panel piezo alarms, press ☐. To turn off, press ☑.

   Note: ☑ indicates the panel piezo alarms is turned on.
3. Press CLOSE repeatedly to exit menus.

Caution: Turning this option off will disable all system sirens. This option should only be turned off if the panel is configured with external sirens. Ask your installer for more information.

Version

This menu is a read-only display of the system's firmware version, the touch screen version, and copyright information.

Testing

This section includes:

- Sensor test
- Comm test
- System download

Sensor test

You should test sensors one at a time to make sure they are sending strong signals to the panel. You should test the sensors at least once a week.

To perform the sensor test:

1. Enter the Status & Settings menu.
2. Scroll until System Tests is listed, Press Enter.
3. Enter your master code and press OK.
4. Press Sensor Test.
5. All sensors learned into your system will be listed.
6. Test any sensor you want by tripping the sensor (see Table 14 below for details on how to trip each device).
7. The display will update with the total number of packets received from each individual sensor (see Table 14 below for minimum number of packets required).

Table 14: Tripping sensors for sensor test

Sensor	Instructions	Minimum packets required
Hardwire contact	Open the hardwire contact	1
Door/window	Open the secured door or window.	6 of 8
Carbon monoxide alarm [a]	Press and hold the Test/Hush button (approximately 5 seconds) until the unit beeps two times, and then release the button.	6 of 8
Glassbreak [a]	Test with an appropriate glass break sensor tester.	6 of 8
Motion sensor	Avoid the motion sensor field of view for 5 minutes, and then enter its view.	6 of 8
Smoke	Press and hold the test button until the system sounds transmission beeps.	6 of 8
Key fob	Press and hold the Lock and Unlock buttons simultaneously for 3 seconds.	6 of 8

Sensor	Instructions	Minimum packets required
Simon XT talking touch screen [a]	For sensor testing a 1.0. touch screen, press and hold the Emergency icon for 5 seconds. For sensor testing a 1.1 or greater touch screen, press the Settings (gear) icon, scroll down, and then press the RF Test icon.	6 of 8

a. Not investigated for use by UL.

Note: Refer to specific sensor installation instructions for complete operation and testing details.

Sensor testing notes

- Conduct sensor test in all possible environmental conditions (for example: interior doors open and closed, HVAC system on and off, wireless music system turned on and off).
- Conduct sensor test whenever changes are made to the installation environment that may impact RF performance (for example: mirrors installed, metal backed wall paper, addition of other RF equipment).
- If a sensor doesn't meet minimum packet requirements, contact your installer.

Comm test

The comm test is used to check proper communication.

Note: If Comm Test is not finished, it will continue to run even if you exit program mode.

To perform a comm test:

1. Enter the Status & Settings menu.
2. Scroll until System Tests is listed, Press Enter.
3. Enter your master code and press OK.
4. Press Comm Test.

The panel displays if the comm test was successful or not.

Central station communication

After performing sensor tests, check that the system is reporting alarms successfully to the central station.

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 an emergency panic icon and trip at least one sensor of each type (fire, intrusion, etc.) to verify that the appropriate alarms are working correctly. There could be a 30 second delay on intrusion devices.
4. When you finish testing the system, call the central station to verify that the alarms were received.

Note: If your system is not connected to a central monitoring station you won't be able to perform the communication test.

System download

You can initiate a download call to program your system with the settings specified by your installer. Use this feature only when instructed by your installer or dealer.

To initiate a download:

1. Enter the Status & Settings menu.
2. Scroll until System Tests is listed, Press Enter.
3. Enter your master code and press OK.
4. Press the System Download icon.

Reference information

This section provides information on system limitations, emergency planning and smoke and heat detector locations. It also provides a place to list your sensor and module locations and other programming values.

Alarm system limitations

Not even the most advanced alarm system can guarantee protection against burglary, fire, or environmental problems. All alarm systems are subject to possible compromise or failure-to-warn for a variety of reasons.

- If sirens are not placed within hearing range of persons sleeping in remote parts of the premises, or if they are placed behind doors or other obstacles.
- If intruders gain access through unprotected points of entry or areas where sensors have been bypassed.
- If intruders have the technical means of bypassing, jamming, or disconnecting all or part of the system.
- If power to sensors is inadequate or disconnected.
- If freeze or any environmental sensors are not located in areas where the appropriate condition can be detected.
- If smoke does not reach a smoke sensor. For example, smoke sensors cannot detect smoke in chimneys, walls, roofs, or areas blocked by a closed door. Sensors may not detect smoke in other levels of the building. Sensors may not warn in time when fires are caused by smoking in bed, explosions, improper storage of flammables, overloaded electrical circuits, or other hazardous conditions.
- If telephone lines are out of service.

Inadequate maintenance is the most common cause of alarm failure. Therefore, test your system at least once per week to be sure sensors, sirens, and phone communication are all working correctly.

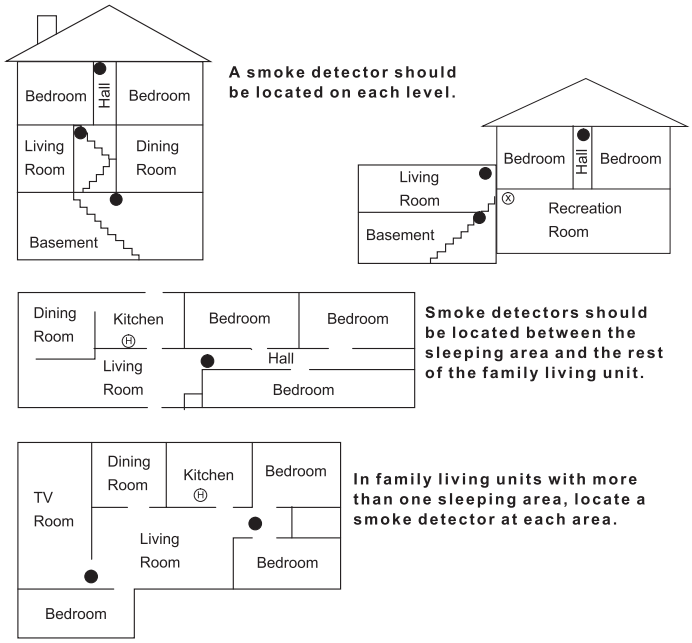
Although having an alarm system may make you eligible for reduced insurance premiums, the system is no substitute for insurance.

WARNING: Security system devices cannot compensate you for the loss of life or property.

Emergency planning

Since an emergency is always unexpected, you should develop plans to help prepare for a variety of emergencies. Periodically discuss and rehearse emergency plans to include the following:

- Understand how to use your security system.
- Know the normal state of doors and windows: open, closed, or locked.
- Escape fast! (Do not stop to pack).
- Use a different escape route if closed doors feel hot to the touch.
- Crawl and hold your breath as much as possible to help reduce smoke inhalation during your escape.
- Meet at a designated outdoor location.
- Emphasize that no one should return to the premises if there is a fire.
- Notify the fire department from a neighbor's phone.
- Emphasize that no one should enter the premises if they hear sirens in the house.
- If you arrive at the premises and hear sirens, do no enter. Call for emergency assistance with your cell phone, or from a neighbor's phone.



NOTE: Ceiling-mounted smoke detectors should be located in the center of the room or hall, or not less than 4 inches from the wall. When the detector is mounted on the wall, the top of the detector should be 4 to 12 inches from the ceiling.

NOTE: Do not install smoke detectors where normal ambient temperatures are above 100°F or below 40°F. Also, do not locate detectors in front of AC/ Heat registers or other locations where normal air circulation will keep smoke from entering the detector.

NOTE: Additional information on household fire warning is available at nominal cost from: The National Fire Protection Association, Batterymarch Park, Quincy, MA 02269. Request Standard No. NFPA74.

● **Required smoke detector**

Ⓗ **Heat detector**

Ⓧ **Indicates smoke detector is optional if door is not provided between basement and recreation rooms.**

Your floor plan

Use the following guidelines when drawing your floor plan:

- Show all building levels.
- Show exits from each room (two per room are recommended).
- Show the location of all security system components.
- Show the location of any fire extinguishers.

Cleaning the touch screen

If necessary, use a soft lint-free cloth to clear smudges on the touch screen; do not use glass cleaner on the touch screen.

Disposal

Dispose of all equipment is accordance with local requirements.

Contact your installer for more information.

Sensor and module locations

Use Table 15 below to list your sensor and module locations.

Table 15: Sensor and module locations

Sensor number	Sensor name	Sensor type	Location
Example	Front door	Door/window sensor	Front door
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			

Sensor number	Sensor name	Sensor type	Location
26.			
27.			
28.			
29.			
30.			
31.			
32.			
33.			
34.			
35.			
36.			
37.			
38.			
39.			
40.			

Access codes

Use Table 16 below to record your access codes.

Table 16: Access codes

Code description	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	

Delays

Use Table 17 on page 39 to record your delay times.

Table 17: Delays

Delay	Time
Exit delay	
Entry delay	

Simon XTi system quick reference

Task	Instructions
Level 1: Disarm the system	Control panel: Press PRESS TO DISARM and enter your access code. Key fob: Press Unlock. Telephone: Press 1.
Level 2: Arm doors and windows	Control panel: Press PRESS TO ARM, then press Doors + Windows Only and enter your access code (if required). Key fob: Press Lock. Telephone: Press 2.
Level 3: Arm motion sensors	Control panel: Press PRESS TO ARM, then press Motion Sensors Only and enter your access code (if required). Telephone: Press 3.
Level 4: Arm doors, windows, and motions	Control panel: Press PRESS TO ARM, then press Arm All and enter your code (if required) Key fob: Press Lock twice. Telephone: Press 2 3.
Activate no delay	Control panel: Press PRESS TO ARM, set Entry Delay to OFF, then press Doors+Windows Only. Key fob: Press Lock. Telephone: Press 2 3.
Activate panic alarm	Control panel: Enter the Emergency Screen and press Panic, Police, or Fire. Key fob: Press and hold Lock and Unlock for 3 seconds.
Check system status	Control Panel: Enter the Status & Settings screen and press the Listen icon by Panel Status. Telephone: Press 0.
Toggle chime or special chime mode	Control panel: Enter the Status & Settings menu and scroll to Chime or Special Chime, press On or Off to set the value.
Bypass a sensor	Control panel: Enter the Status & Settings menu, scroll to Direct Bypass Press ENTER, enter your master code, scroll to the sensor, and then press BYPASSED or NOT BYPASSED to set the value.