Wireless Interior Siren

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INSTALLATION INSTRUCTIONS

About This Document

This document describes how to install, program, and test the Wireless Interior Siren (WIS) for use in compatible ITI security systems.

Product Summary

The WIS uses the existing premises electrical wiring for receiving control panel (panel) signals. Since there is no direct connection to the panel, any number of sirens can be installed in a system.

The WIS receives signals from the panel, only when the panel is powered by an optional Line Carrier Power Transformer (60-346-500). The panel sends signals through the transformer and over the electrical wiring.

The WIS responds to panel signals by activating its built-in piezo sirens and the red LED located above the top piezo.

In case of a power failure, a backup battery (not included) provides power for the WIS. When the battery is low, the WIS beeps once every 60 seconds, indicating the battery needs replacing.

The WIS also includes screw terminals for connecting a low-current, external siren.

Tools Needed

ν   Phillips screwdriver
ν   Slotted screwdriver

Installation Guidelines

Use the following guidelines when installing a WIS:

ν   CareTaker® *Plus* and Custom Version panels, and Commander® 2000 and Custom Version panels must be powered using the optional Line Carrier Power Transformer (60-346-500).

ν   UltraGard® and Custom Version panels must be powered using the optional Line Carrier Power Transformer (60-678)

ν   SX-V panels must have software dated 11/30/87 or later installed for WIS operation.

ν   The WIS must have a 9-volt battery installed for correct operation. The battery can be alkaline, lithium, or NiCd type.

Note: In UL listed installations, NiCd batteries cannot be used in the WIS.

ν   Try to avoid installing the WIS on circuits that include TVs, computers, or appliances such as refrigerators or microwave ovens. These products can generate noise on the AC lines that may block panel signals to the WIS.

ν   The panel transformer and the WIS must be plugged into outlets on the same electrical phase to ensure consistent operation.

ν   When connecting an exterior siren to the WIS, use the Hardwire Exterior Siren (13-046) only.

Setting the WIS DIP Switches

This section describes the WIS DIP switches and how to set them for the desired WIS operation. Locate the WIS DIP switches by turning the WIS upside-down and removing the battery cover on the back (see Figure 1).

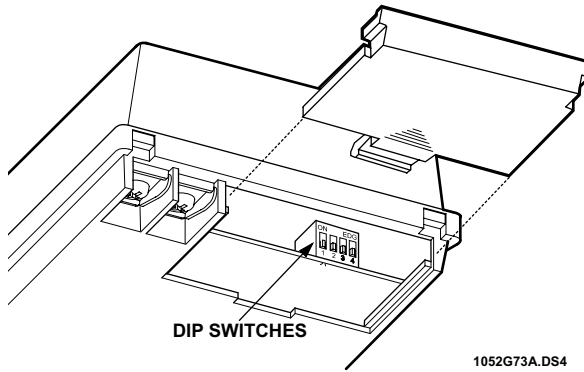**Note:**   In UL listed systems, all switches must be off.

DIP SWITCHES

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Figure 1. WIS Battery Cover Removal and DIP Switch Locations

DIP Switch 1—Battery Type

ν OFF—Install an alkaline or lithium type battery.

ν ON—Activates a trickle charge circuit for use with a NiCd battery.

WARNING: Never turn on DIP switch 1 when using an alkaline or lithium battery. Personal injury and equipment damage may result if these batteries are recharged, short-circuited, punctured, or discharged at higher than acceptable rates.

DIP Switch 2—External Siren Delay

ν OFF—External siren terminals activate immediately during an alarm condition.

   Use this setting when the siren connected to the external siren terminals is located inside the premises.

ν ON—External siren terminals activate 15 seconds after an alarm condition occurs.

   Use this setting when the siren connected to the external siren terminals is located outside. This helps prevent disturbing neighbors in cases of accidental alarms that last less than 15 seconds.

DIP Switches 3 and 4—Status Tones

ν 3 and 4 OFF—The WIS internal piezos and external siren do not produce any status tones.

   Use this setting when the WIS is installed in or near sleeping areas.

ν 3 ON, 4 OFF—The WIS internal piezos produce normal-volume status tones.

   Use this setting when the WIS is installed in areas where status tones need to be heard.

ν 3 OFF, 4 ON—The WIS internal piezos and external siren produce high-volume status tones.

   Use this setting when status tones need to be heard in remote areas, inside and outside of the premises.

CAUTION: **Never turn on both DIP switches 3 and 4 together; otherwise, permanent damage may occur to the WIS.**

Wiring

Figure 2 shows how to connect the Hardwire Exterior Siren (13-046) to the WIS external siren screw terminals.

CAUTION: **Only the Hardwire Exterior Siren can be connected to the WIS terminals. Other sirens may draw more current than the WIS can provide and cause permanent damage to the WIS.**
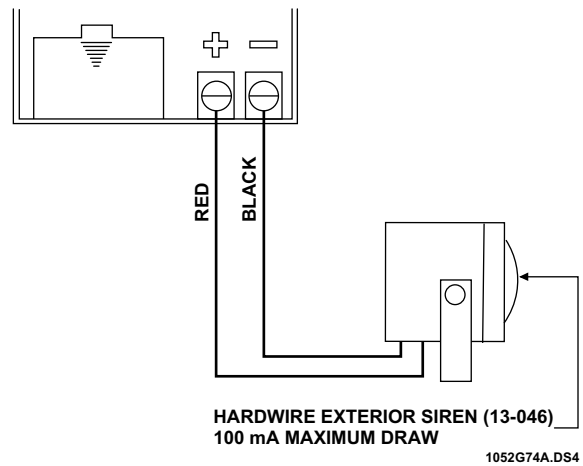

RED   BLACK

HARDWIRE EXTERIOR SIREN (13-046) 100 mA MAXIMUM DRAW

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Figure 2. Connecting the Hardwire Exterior Siren to the WIS

Programming

This section describes how to program and change a house code in the WIS so that it can respond to panel signals.

Programming a House Code into the WIS

1) Program a house code (002-254) into the panel. (Refer to the panel's *Installation Instructions* or *Reference Manual.*)

Note: House codes 000 and 001 are default house codes that must be changed to avoid communication problems when installing a WIS.

House code 255 is reserved for demonstration use, such as with demo kits.

2) Connect the correct 9-volt battery type to the WIS battery clip (refer to WIS DIP switch 1 setting) and replace the WIS battery cover.
3) Plug the WIS into a nonswitched outlet.
4) With the panel in normal mode (not program mode), press STATUS on a hardwire or wireless touchpad. The WIS piezos sound one beep and the WIS LED flashes, indicating it has received the house code from the panel.

Changing the WIS House Code

1) Unplug the WIS.
2) Remove the battery cover and disconnect the 9-volt battery.
3) Wait at least 30 seconds, then reconnect the battery and attach the battery cover.
4) Plug the WIS into the nonswitched outlet.
5) With the panel in normal mode (not program mode), press STATUS on a hardwire or wireless touchpad. The WIS piezos sound one beep and the WIS LED flashes, indicating it has received the house code from the panel.

Testing

This section describes how to test the WIS.

CAUTION: **When testing monitored systems, always contact the central station before activating alarm conditions to avoid police or fire department response.**

1) Trip fire, intrusion, and auxiliary alarms. The WIS and the Hardwire Exterior Siren (if connected to the WIS) should produce the appropriate alarm tones.

Note: The WIS external siren terminals do not activate during auxiliary alarms.

2) If the WIS is set up for normal-volume status sounds, arm and disarm the system. The WIS should produce the appropriate status tones.
3) If the WIS is set up for high-volume status tones, arm and disarm the system. The WIS and the Hardwire Exterior Siren (if connected to the WIS) should produce the appropriate status tones at high volume.

Contact the central station to let them know when testing is completed.

Specifications

Compatibility: SX-V, all Learn Mode panels

Power Requirements: 120 VAC

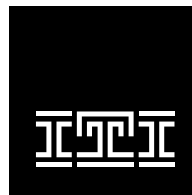Backup Battery: 9 VDC (alkaline, lithium, or NiCd)

Dimensions: 6.0" x 3.75" x 1.50" (L x W x D)

Notices

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

1) This device may not cause harmful interference.
2) This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by Interactive Technologies, Inc. can void the users' authority to operate the equipment.