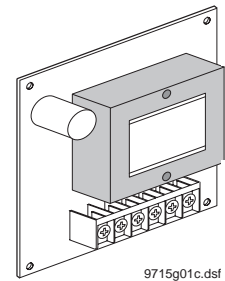


# Voice Siren 25/70 Volt Converter Card

Document Number: 466-1566 Rev. D  
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## Installation Instructions

### Product Summary

The ITI® Voice Siren 25/70 Volt Converter Card adds high voltage voice siren audio output capability to Advent panels.

**Note**

The converter card is only for use with the tone generator output. It is not listed for use in voice evacuation.

The card mounts inside the panel enclosure and is powered by the panel voice siren output. The card converts the panel 4-ohm voice supervised siren output to a 25 or 70 volt, 24 watt supervised output. All circuits associated with this card are power limited.

### Card Components

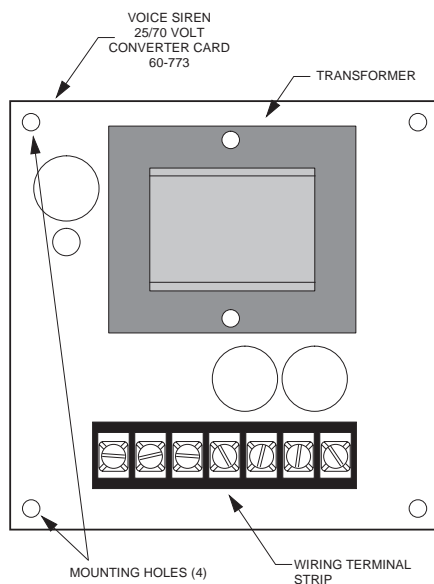


Figure 1. Card Components

#### Card Component Descriptions

Component	Function
Mounting Holes	Holes match mounting screw locations in panel enclosure.
Transformer	Converts the panel voice siren output to 25/70 Volt output.
Terminal Strip	Used for panel and voice siren connections.

### Installation Guidelines

- Advent systems support one card per panel.
- Do not exceed the panel voice siren output power (see panel *Installation Instructions*).

**Note**

The Voice Siren Converter Card must have a minimum load of 1 watt and a maximum of 24 watts.

### Tools and Supplies Needed

- Small and medium blade screwdrivers.
- #6x1/4 -inch self-tapping phillips pan head screws (included).
- 2K ohm 5 watt end-of-line (EOL) resistor assembly (49-482) (included with card).
- 14-gauge or larger solid wire. Use larger gauge wire for long wire runs.



**CAUTION**

Do not use the 3 watt end-of-line resistors that are included with Advent panels.

### Installation

The card is mounted inside the panel enclosure.



**CAUTION**

To prevent damaging the panel or card, remove panel AC power and disconnect backup battery before installation.



**CAUTION**

You must be free of all static electricity when handling electronic components. Wear a grounding strap or touch a bare metal surface before handling circuit boards.

### Mounting the Card

1. Remove panel AC power and disconnect the panel backup battery.
2. Place the card inside the cabinet below the panel circuit board (Figure 2).

- Secure the card to the cabinet mounting standoffs with #6x1/4 -inch self-tapping phillips pan head screws.

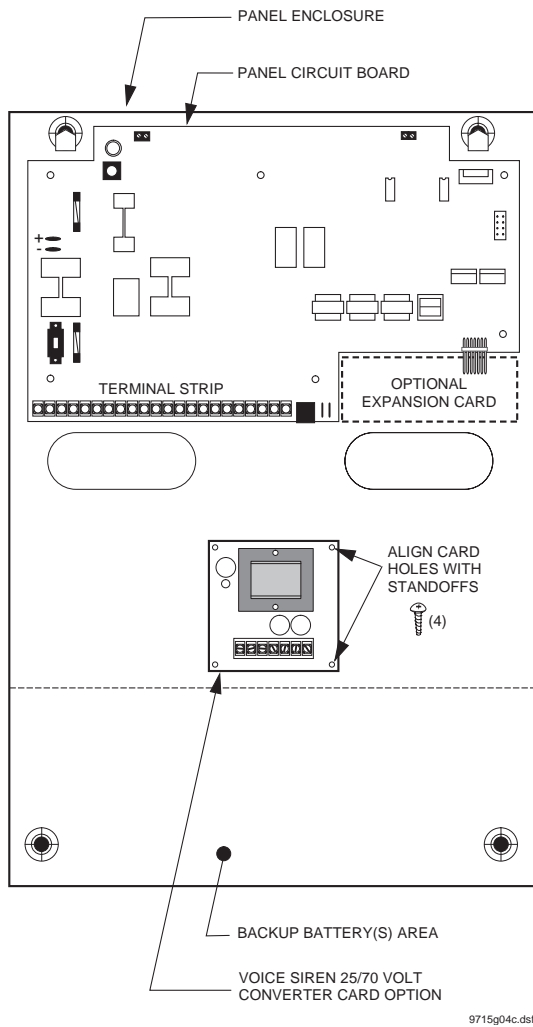


Figure 2. Mounting the Card in the Advent Panel

## Wiring the Card

This section describes how to wire the card to an Advent panel and speakers.

**Note**

- (A) Class 2, Class 3, and power-limited fire alarm circuits must be installed using FPL, FPLR, FPLP, or substitute cable permitted by the National Electrical Code ANSI/NFPA 70. Wire that extends beyond the cable jacket must be separated from all other conductors by a minimum of 1/4-inch or by a nonconductive barrier.
- Or
- (B) Class 2, Class 3, and power-limited fire alarm circuit conductors must be installed as Class 1 or higher circuits.

### To wire the card:

- If you have not already done so, remove panel AC power and disconnect the panel backup battery.
- Wire the card to the panel and voice sirens as shown in Figure 3.

**Note**

70 volt wiring and supervision is shown. For 25 volt wiring, connect speakers to terminals Common and 25V and jumper + Supervision to 25V terminal.

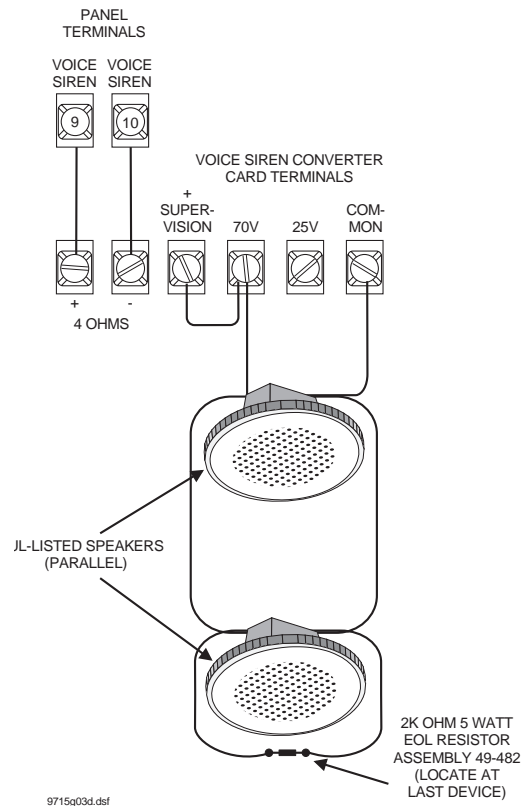


Figure 3. Typical Advent Panel Card Wiring

**Note**

Separate in and out conductors must be used at each speaker. Do not loop a single wire around each terminal.

## Powering Up the Panel

This section describes how to power up the panel and the card.

### To power up the panel and card:

- Verify that all wiring at the panel and the card is correct.
- Reconnect the panel battery and restore panel AC power.

## Testing

Refer to the specific panel's *Installation Instructions* for testing voice siren operation and supervision.

## Specifications

Compatibility: ..... Advent panel (60-562-03).

Power Requirements: ... Advent panel voice siren output.

Temperature:

Operating ..... 32° to 120° F (0° to 49° C).

Storage ..... -30° to 140° F (-34° to 60° C).

Maximum Humidity: .... 90% relative humidity, non-condensing.

Inputs: ..... One 4-ohm. 25 watt supervised audio input.

Outputs: ..... One power-limited 25 volt or 70 volt, 24 watt maximum, supervised audio output.

Dimensions: ..... 3.2" x 3.2" x 1.5" (LxWxD).

Installation: ..... Panel enclosure mounting.

## Listings

### FCC Part 15

UL 864: Control Units for Fire-Protective Signaling Systems

UL 1711: Fire Protective Signalling Systems

ULC Canada Commercial Fire/Burglary Warning System (applied for)

CSFM California State Fire Marshall (applied for)

DOD Sensitive Compartment Information Fac. (applied for)

FM Factory Mutual (applied for)

MEA New York City Material Equipment Acceptance (applied for)

#### Note

See specific panel installation instructions for complete UL installation requirements for the system you are installing.

## Notices

### FCC Part 15 Information to the User

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

### FCC Part 15 Class A

This equipment has been tested and found to comply with the limits for a class A 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 commercial 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. Operation of this equipment in a residential area is likely to cause harmful interference in which case users will be required to correct the interference at their own expense.

### FCC Part 15 Class B

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 interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the affected equipment and the panel receiver to separate outlets, on different branch circuits.
- Consult the dealer or an experienced radio/TV technician for help.



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