Honeywell

# ADEMCO 6152RF Keypad / Transceiver – Installation and Setup Guide

**Fixed Addressable Keypad/Transceivers for use with Honeywell Control Panels; incorporates normally-open relay output with the functions of a 16 zone RF Receiver and a 5800 Transmitter module.**

Programmable to support the following :

- Bi-directional 5828/5828V wireless keypads and wireless keys (e.g., 5804BDV, 5834-4, etc.)
- Up to eight button-type wireless keys locally (programmed directly into the keypad), without occupying control panel zones
- Up to 16 5800 series wireless zones programmed into any supported control panel
- Wireless keys with high security mode enabled

**To activate Function keys, press and hold key for at least 2 seconds; key pairs are activated immediately.**

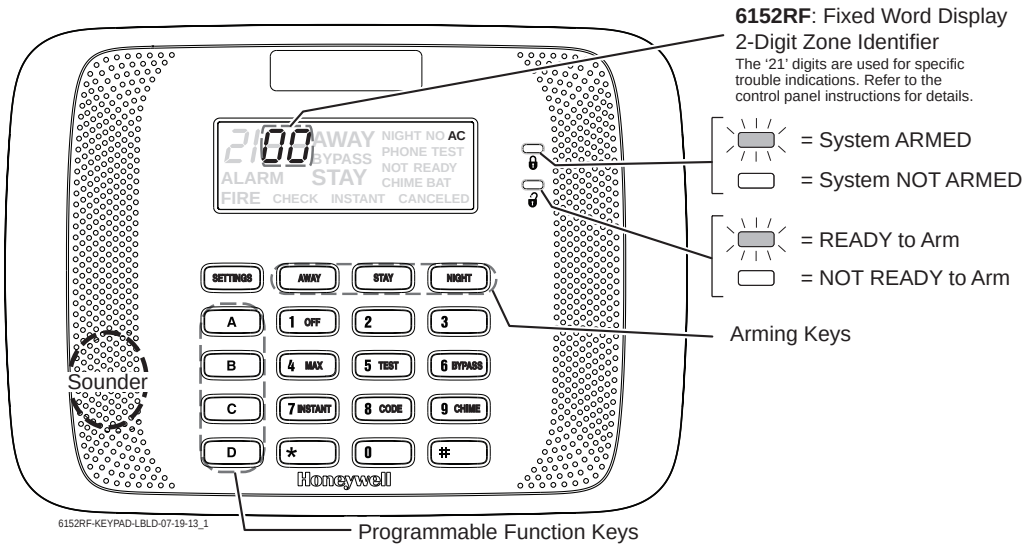



**Table 1 – Programmable Function Keys**

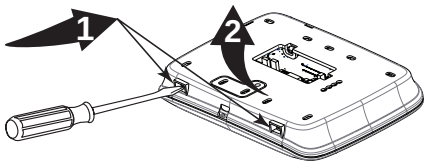
| |
|---|
| **A** or [1 OFF] and [*] |
| **B** or [*] and [#] |
| **C** or [3] and [#] |
| **D** |

**Note**: See the control's instructions for details on programming the Function keys for panic alarms or other special functions (i.e., macros).

**Table 2 – Settings Key**

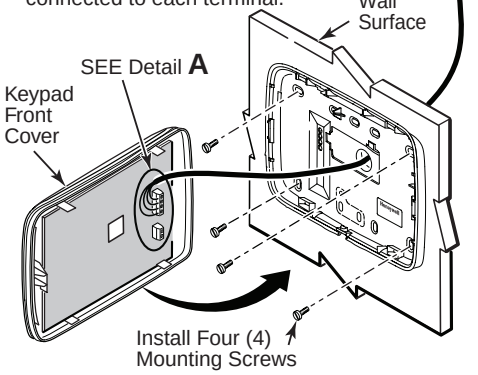
| Settings Key | Result |
|---|---|
| Press [SETTINGS] for 2 Seconds | Enters Display Test Mode |
| Press [SETTINGS] for 2 Seconds and during the Display Test, press and hold [1 OFF] and [3] for 3 Seconds | Reboots the Keypad (the keypad beeps and the ARM and READY LEDs flash for several seconds) |

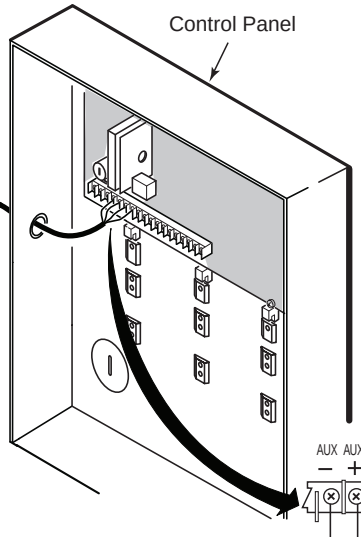
## 1. OPEN




## 2. WIRE

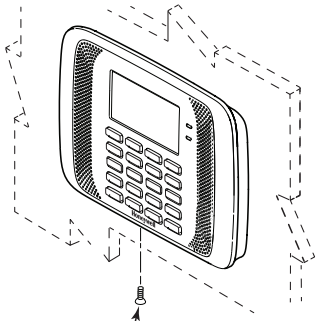
- Connect only one wire per terminal.
- For Daisy-Chain Configurations, use wire splicing so only one wire is connected to each terminal.



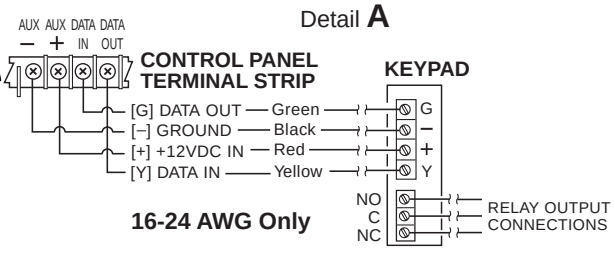




## 3. MOUNT

Mount on drywall, or in a single or double-gang electrical box.




Detail **A**



**INSTALLATION AND APPLICATION GUIDELINES**

For installation, consider the following:

- Locate the 6152RF in an area and at a height convenient for user operation.
- The 6152RF must be at least 10 feet from the control panel to ensure proper RF receiver operation.
- Local wireless keys (wireless keys programmed directly into the 6152RF) may be used regardless of whether the RF receiver in the 6152RF is enabled or disabled.
- If using bi-directional devices, be sure to enable the transmitter module in the 6152RF (program address 7).
- If transmitters are programmed into the control panel, be sure to enable the receiver (program address 6). (Do not exceed the number of receivers supported by the control panel.)
- The keypad provides an on-board relay, programmed in the keypad and operated by wireless key (see Wireless Key On-Board Relay Assignment on page 5 for programming details).
- If a local wireless key is programmed to arm/disarm or to trigger a relay on the control panel, a user code must be entered into the 6152RF. This user code must also be programmed into the control panel.
- You must set the House ID only if you are using RF keypads and/or bi-directional devices; **AND** the House ID Source is the 6152RF (Local).

**Partition Installation Example**

An example of an installation using two 6152RF Keypad / Transceivers with 2-Way Wireless Devices (e.g., 5828V) on two Partitions is shown below:

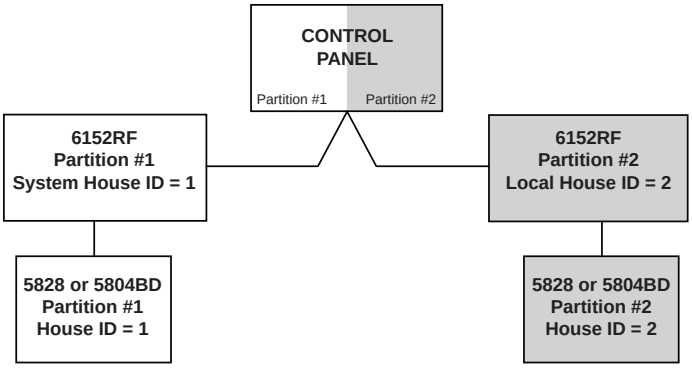



**Table 4 – Partition Installation**

| Settings | 6152RF #1 | 6152RF #2 |
|---|---|---|
| **Keypad:** | Must be assigned to Partition 1 in the control panel | Must be assigned to Partition 2 in the control panel |
| **House ID:** | Match Partition 1 House ID in the control panel and House ID in Wireless Device | Match House ID in Wireless Device |
| **House ID Source:** | System | Local |
| **Receiver Enable:** | On | Off |
| **Transmitter Enable:** | On | On |

## 4. PROGRAM

To program the keypad, first enter the Programming Mode, select a programming address and set the programming options. Refer to the tables below and on the following pages for details on entering Programming mode, default values and programming choices for each option.

**Table 5 – Programming Mode**

| Action | Result | Display | Notes |
|---|---|---|---|
| **1. Enter Program Mode**<br>Within 30 seconds of power up or reboot, press and hold down the [1 OFF] and [3] keys at the same time for 3 seconds.<br>**Note**: Refer to Table 2 to reboot the keypad. | Enters the Program mode at the Start screen and the keypad beeps three (3) times | oo, - - flash alternately<br>[If any other numbers or letters appear press [*].) | - The keypad will not enter programming mode if the panel is armed.<br>- Press the [1 OFF] and [3] keys **60 seconds or more after** power up to enter the **User mode**. This mode allows individual local wireless keys to be enabled and disabled (useful if, e.g., a user accidentally loses a wireless key). Refer to the User Guide for instructions.<br>- To enter keypad Programming mode after power up period, reboot the keypad (see Table 2 on page 1) and try again after the keypad LEDs stop flashing.<br>- The keypad automatically exits the Program mode if no keys are pressed for 90 seconds. |
| **2. Enter a Programming Address**<br>(See *Program Address* column in Table 6) | Screen displays selected programming address | See *Display* column in Table 6. | - (For example, enter **[1]** to go to Keypad Address; enter **[2]** to go to Receiver Address). |
| **3. Set programming options**<br>Use the number and navigation keys to set the programming options. | Refer to *Choices* column in Table 6. | | - Press [#] to erase the current information and move back.<br>- Press [*] to store the displayed information, the keypad beeps twice and the screen returns to Start |

**Table 6 – Programming Options**

After editing any programming address, pressing [*] will save the displayed information **and return to the Start screen.**

| Enter Program Address | Moves to Address Description | Display | Choices | Default | Notes |
|---|---|---|---|---|---|
| **Enter [1]** | Keypad Address | cA | 00-31[1] | 16 | Enable keypad address in the Control panel. |
| **Enter [2]** | Receiver Address | rA | 00-30[2] | 00 | |
| **Enter [3]** | House ID<br>Only needed if RF keypads and/or bi-directional units are used and House ID source is set for Local. | hI | 00-31 | 10 | The House ID entered here **MUST** match the House ID programmed in the RF keypad and the bi-directional unit. |
| **Enter [4]** | House ID Source | hS | 1 = System<br>0 = Local | 1 (System) | System uses the House ID programmed in the control.<br>Local uses the House ID programmed in the keypad. |
| **Enter [5]** | Wireless Key Editing | d- | Enter Existing Device Number (1-8) | | |
| **Enter [6]** | Receiver Enable<br>Enable the receiver if RF transmitters or wireless keypads are programmed into the control. | rE | 1 = On (Enable)<br>0 = Off (Disable) | 1 (Enable) | If enabled, the number of receivers cannot exceed the control panel capacity. |
| **Enter [7]** | Transmitter Module Enable<br>Enable if using bi-directional devices. | tE | 1 = On (Enable)<br>0 = Off (Disable) | 1 (Enable) | Enable Transmitter Module in only one keypad if more than one 6152RF is used and the House ID source is 'System'. |
| **Enter [8]** | Wireless Key Auto Enroll<br>Wireless Key User Code<br>Wireless Key Loop Function<br>Wireless Key On-Board Relay Assignment | **See *Programming Local Wireless Keys* for Address 8 programming details** | | | |
| **Enter [9]** | Restore Defaults | EE | 1 = Restores Defaults<br>Any Other Key = Does Not Restore Defaults | | |
| **Enter [0]** | High Security Mode† | En | 1 = Enable;<br>0 = Disable | 0 Disable | |
| **Enter [A]** | User Code | u4 | Enter 4-Digit User Code (0000 – 9999) | | This user code will be used to enable the single button arming keys. Must be a valid user code programmed in the control. |

[1] For VISTA-10P/15P/20P/21IP use Keypad Addresses 16-23; For VISTA-50P use Keypad Addresses 00-30.

[2] For VISTA-10P/15P/20P/21IP use Receiver Address 00; For VISTA-50P use Receiver Addresses 01-30 and enable the receiver address in the Control panel.

**Note**: Not intended for use with VISTA-128/250 Series.

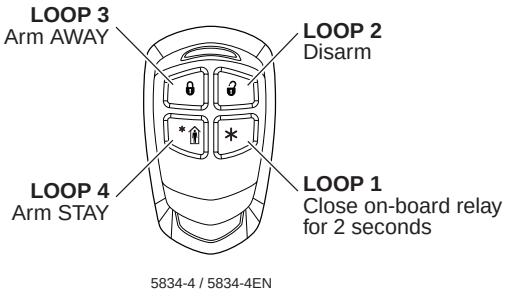
† When operating the system in High-Security mode, non-encrypted wireless keys will ***not*** function.

Upon exiting the Program mode, the 6152RF alternately flashes "Ad," the 2-digit keypad address, and the 2-digit receiver address. If either of these is incorrect, enter Program Mode again and reset the address(es) (see Tables 5 and 6).

**PROGRAMMING LOCAL WIRELESS KEYS**

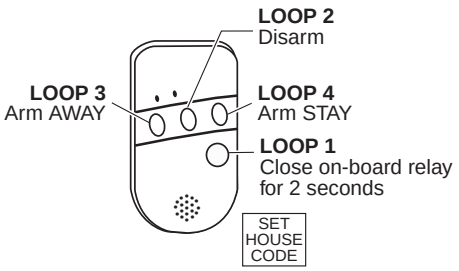
This section is for first time enrolling and setup of wireless keys. To edit or delete a wireless key that is already enrolled; refer to the*, Deleting, Replacing or Editing Wireless Keys* section.

**Table 7 – Wireless Keys Programming**

<table>
<tr><th>Step</th><th>Action</th><th>Display</th></tr>
<tr><td>Enter Program Mode</td><td>Within 30 seconds of power up, press and hold down the [1 OFF] and [3] keys at the same time for 3 seconds.</td><td>"oo, - -" flash alternately<br>See Table 5 for more details.</td></tr>
<tr><td rowspan="3">Enter [8]</td><td>Wireless Key Auto Enroll. The 6152RF automatically advances to first available device number.<br>Note: If all 8 devices have been enrolled, the 6152RF beeps three times and continues to alternately flash "oo" and "- -."</td><td>Flashes "d" with the next available device number; followed by "- -" (four times) and then repeats the sequence.</td></tr>
<tr><td>Press any button on the wireless key to enroll the serial number. The keypad will beep three times.<br>Note: If enrolling a wireless key in high security mode, see the Installation Instructions for that Model for further information.</td><td>Alternately flashes "d" with the device number and the serial number.</td></tr>
<tr><td>Press [*] to accept the serial number; the 6152RF beeps two times.<br>OR<br>Press [#] to reject the serial number; the 6152RF beeps once and returns to the “enroll serial number” prompt.<br>Note: A maximum of 8 wireless keys may be enrolled into the 6152RF. These wireless keys DO NOT occupy any zones supported by the control.</td><td>If you accept the serial number, the display flashes the device number and a hyphen.<br>If you reject the serial number, the display flashes "d" with the device number followed by "- -" four times.</td></tr>
<tr><td>Enter [2]</td><td>Wireless Key User Code. Enter the 4-digit user code for the wireless key.<br>Note: The user code must be a valid code that is programmed in the control panel. If the code is deleted or changed in the control, the wireless key will no longer work.<br>Press [*] to accept the user code.<br>If finished programming, press [*] to exit. Otherwise, continue programming as noted below.</td><td>Flashes "u4." Once the 4-digit user code is entered, the display flashes "u4," the first two digits, and then the last two digits of the user code.</td></tr>
<tr><td>Enter [4]</td><td>Wireless Key Loop Functions. Enter the loop number (1-4).<br>The 6152RF is shipped with the loop functions pre-programmed (see illustrations in the next column):<br>Loop 1 Close the 6152RF On-Board Relay for 2 sec.<br>Loop 2 1 (Disarm)<br>Loop 3 2 (Arm Away)<br>Loop 4 3 (Arm Stay)<br>To change any of the loop functions enter one of the choices listed in the Wireless Key Function Chart below.*<br>* Entering a number other than the one specified may give unpredictable results.<br>Wireless Key Function Chart
<table>
<tr><th>Function</th><th>Entry</th></tr>
<tr><td>Disarming</td><td>1</td></tr>
<tr><td>Arming Away</td><td>2</td></tr>
<tr><td>Arming Stay</td><td>3</td></tr>
<tr><td>Arming Maximum (Away Instant)</td><td>4</td></tr>
<tr><td>Arming Instant</td><td>7</td></tr>
<tr><td>Panic Alarm<br>Produces type of alarm [* & #] programmed in control panel.</td><td># + 99</td></tr>
</table></td><td>Flashes "Ln."<br>Once the loop number is entered, alternately flashes "L" with the loop number; and the present function.<br>Default Loop Functions<br> 

5834-4 / 5834-4EN</td></tr>
</table>

**Table 7 – Wireless Keys Programming** (continued)

<table>
<tr><th>Step</th><th>Action</th><th>Display</th></tr>
<tr><td>(Cont'd)</td><td>Wireless Key Function Chart (continued)
<table>
<tr><td>Manually Start a Relay Action</td><td># + 7 + n (VISTA-10P, VISTA-15P, VISTA-20P, VISTA-21ip)</td></tr>
<tr><td>Manually Stop a Relay Action</td><td># + 8 + n (VISTA-10P, VISTA-15P, VISTA-20P, VISTA-21ip)</td></tr>
<tr><td>Activate Relay as Programmed in Control</td><td># + 71 (VISTA-50P)</td></tr>
<tr><td>Activate Relay as Programmed in Control</td><td># + 72 (VISTA-50P)</td></tr>
<tr><td>Activate Access Control Relay for Partition</td><td>0 (VISTA-50P)</td></tr>
</table>
n = Device Number programmed in panel to be controlled<br>
Note: Not intended for use with VISTA-128/250 Series.<br>
Press [*] to save function setting.</td><td>Default Loop Functions (continued)<br>


5804BD / 5804BDV<br>
Note: If the loop is defaulted with a function (e.g., Arm, Disarm) and also is assigned to activate the on-board relay, the system performs BOTH functions.</td></tr>
<tr><td></td><td>Repeat this process for the rest of the wireless key loops.</td><td></td></tr>
<tr><td>Enter [5]</td><td>Wireless Key On-Board Relay Assignment. Program a button on the wireless key to control the on-board relay.<br>
Note: Any button can control the on-board relay in addition to performing one of the Loop functions above.</td><td>Flashes "o-"</td></tr>
<tr><td></td><td>Enter the loop number of the wireless key (1-4).<br>
Enter the desired relay action:<br>
0 = no action<br>
1 = relay off<br>
2 = relay on<br>
3 = relay toggles on and off<br>
4 = relay closes for 2 seconds<br>
Press [*] to save the relay assignment.</td><td>Flashes "o" and the loop number.<br>
Once the action is entered, alternately flashes "o" and the loop number and the relay action (e.g., alternately flashing “o3” and “4” shows Loop 3 will close the relay for 2 seconds.)</td></tr>
<tr><td></td><td>Repeat for the wireless key loops where on-board relay control is desired.</td><td></td></tr>
<tr><td></td><td>When all loops have been programmed for the wireless key, press [*].</td><td>Flashes "d" followed by the device number.</td></tr>
<tr><td></td><td>The 6152RF automatically displays the next available device number (one that does not have a serial number).</td><td>d1 – d8</td></tr>
<tr><td></td><td>If you want to program additional wireless keys, repeat the previous steps. Otherwise, press [#] to return to the Programming Start screen</td><td>"oo" and "- -" flash alternately</td></tr>
<tr><td></td><td>Press [*] to exit the 6152RF Program mode.</td><td></td></tr>
</table>

**DELETING, REPLACING, OR EDITING WIRELESS KEYS**

Use the following procedure to make changes to wireless keys.

**Table 8 – Deleting, Replacing or Editing Wireless Keys**

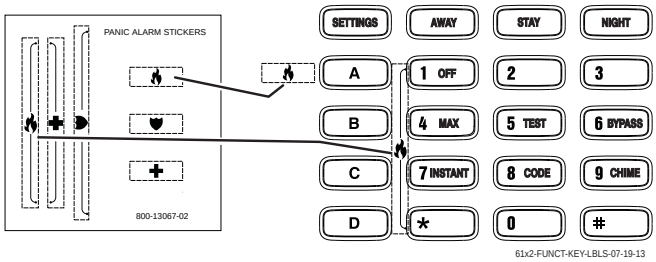
| Step | Action | Display |
|---|---|---|
| **Enter Program Mode** | Within 30 seconds of power up or reboot, press and hold down the [1 OFF] and [3] keys at the same time for 3 seconds. | "oo, - -" flash alternately |
| **Enter [5]**. | **Wireless Key Editing**<br>Enter the device number for the wireless key you want to edit (1-8). This must be a device that has its serial number already programmed in the 6152RF.<br>To exit without editing the wireless key, press the [#] key.<br>To edit the wireless key, press the [*] key to continue. | Flashes "d-".<br>Once the device number is entered, alternately flashes "d" with the device number; and the serial number. |
| **Delete** | To delete the serial number, press [*], then [9 CHIME], and press [*] again. | |

**Table 8 – Deleting, Replacing or Editing Wireless Keys** (continued)

| Step | Action | Display |
|---|---|---|
| **Edit** | To change any of the programming for the wireless key, refer to the procedures described in **Table 7** for the following changes:.<br>• To edit the user code, see "**Enter [2]**"<br>• To edit the loop functions, see "**Enter [4]**"<br>• To edit the on-board relay assignment, "**Enter [5]**" | Alternately flashes "d" with the device number; and "-."<br>u4<br>Ln<br>o- |
| **Exit** | When you have completed editing the wireless keys, press [*] twice to exit the Program mode. | |

## FUNCTION KEY LABELS

A set of adhesive-backed labels with some typical function symbols (fire, police, personal emergency) is provided. These labels can be placed next to the keys to identify each key's function for the end user (as determined by the control panel's capability and programming; see the control's instructions).




## TROUBLESHOOTING

The following error messages cause the 6152RF to produce rapid beeps for 5 seconds. The table below describes the error messages and the corrective actions.

**Table 9 – Troubleshooting**

| Display | Probable Cause | Corrective Action |
|---|---|---|
| **Lb** | Low battery in the wireless key | 1. Replace the battery in the wireless key. |
| **OC** | Open circuit | Verify that the Data Out wire is connected properly. |
| **1C** | Incompatible connection | Verify that the control panel is not a First Alert-type control panel. |
| **Check 09 OR**<br>**Check 100 OR**<br>**Check 10n*** | 1. 6152RF Receiver is not communicating<br>2. Another device on the keypad terminals conflict with this receiver address. | 1. Verify that the Data In wire is connected properly.<br>2. Verify no other devices on the keypad bus are set for receiver address. |
| **E8** | Too many RF zones programmed | Verify the number of transmitters programmed into the control panel |

*n = receiver address programmed in VISTA control panel

## SPECIFICATIONS

**Physical:** 4.88"H x 6.934"W x 1.02"D
**Displays:** Fixed-Word LCD (backlit).
**Sounder:** Piezo-electric [fire alarm is loud, pulsing single tone; (all Keypads) burglary alarm is loud, continuous, dual tone].
**Range:** 200' nominal.
**Frequency:** 345 MHz

**Wiring:** Refer to Installation diagram on page 1.
**Voltage:** 12VDC (power-limited)
**Relay:** Normally-Open, 1 A, 28VDC
**Current:** 105mA (ARMED LED lit, LCD backlight and sounder on), reduces to 80mA when panel is operating in standby mode (backlight off).
**NFPA-72:** Compliant

**FEDERAL COMMUNICATIONS COMMISSION STATEMENT:**
The user shall not make any changes or modifications to the equipment unless authorized by the Installation Instructions or User Manual. Unauthorized changes or modifications could void the user's authority to operate the equipment.

**CLASS B DIGITAL DEVICE STATEMENT**
This equipment has been tested to FCC requirements and has been found acceptable for use. The FCC requires the following statement for your information:
This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- If using an indoor antenna, have a quality outdoor antenna installed.
- Reorient the receiving antenna until interference is reduced or eliminated.
- Move the radio or television receiver away from the receiver/control.
- Move the antenna leads away from any wire runs to the receiver/control.
- Plug the receiver/control into a different outlet so that it and the radio or television receiver are on different branch circuits.
- Consult the dealer or an experienced radio/TV technician for help.

**INDUSTRY CANADA CLASS B STATEMENT**
This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

**FCC / IC STATEMENT:**
This device complies with Part 15 of the FCC Rules, and RSS 210 of Industry Canada (IC). 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.
Cet appareil est conforme à la partie 15 des règles de la FCC & de RSS 210 des Industries Canada. Son fonctionnement est soumis aux conditions suivantes: (1) Cet appareil ne doit pas causer d' interférences nuisibles. (2) Cet appareil doit accepter toute interférence reçue y compris les interférences causant une réception indésirable.

**REFER TO INSTALLATION INSTRUCTIONS FOR THE CONTROL PANEL WITH WHICH THIS DEVICE IS USED FOR WARRANTY INFORMATION AND LIMITATIONS OF THE ENTIRE ALARM SYSTEM.**

**WARRANTY INFORMATION:** For the latest warranty information, please go to www.honeywell.com/security/hsc/resources/wa

**DOCUMENTATION AND ONLINE SUPPORT:** For the latest documentation and online support information, please go to:
http://www.security.honeywell.com/hsc/resources/MyWebTech

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www.honeywell.com/security

800-11537V1 7/13 Rev A