GENERAL INFORMATION

The ADEMCO 6160RF keypad/transceiver is a combination unit that combines the functions of the following devices:

- 6160 Alphanumeric Addressable Keypad
- 5881H RF Receiver
- 5800TM Transmitter Module

The 6160RF Keypad/Transceiver may be used on any control panel that supports 5800 Series wireless devices (e.g., VISTA-10P, VISTA-15P, VISTA-20P).

FEATURES

- Supports wireless key transmitters (e.g., 5804) and bi-directional transmitters (e.g., 5804BD, 5828/5828V).
- Supports wireless keys with high-security (encryption) capability (e.g., 5804E).
- Provides a nominal range of 200 feet for RF transmitters (some transmitters have a shorter range).
- Supports RF jam detection when the receiver is enabled.
- Capable of sending status signals (Armed, Ready, etc.) to bi-directional units such as 5804BD, 5804BDV and 5828/5828V.

The following 5800 series transmitters are not intended for use in UL installations: 5802, 5804, 5804BD, 5804BDV, 5804E, 5814, 5816TEMP, 5819, 5819BRS, 5819WHS, 5828/5828V and 5850.

INSTALLING THE 6160RF

Locate the 6160RF in an area and at a height where it is convenient for user operation. The 6160RF must be at least 10 ft from the control panel to ensure proper operation of the RF receiver.

Mounting and Wiring

The 6160RF has terminal blocks for connection to power and data wires. Removing the keypad's case back provides access to the terminal blocks. The 6160RF can be surface mounted directly to walls, or to a single- or double-gang electrical box. Follow these steps to mount and wire the keypad:

1. Push the two case release snaps at the bottom of the keypad with the blade of a medium screwdriver (this will push in the release snap), then pull that side of the case back away. Insert the screwdriver in the side of the keypad (between the front and back case) and gently twist to release the side locking tab. Repeat for the other side. Refer to Figure 1 for location of the case back release snaps and locking tabs.

2. Pass the wiring from the control panel through the opening in the case back. (see the control panel's instructions for proper run lengths.)
   a. If surface wiring is being used, wiring may be routed through the top or the bottom left-side breakout in the case back. The breakouts must be punched out using a screwdriver before mounting the case back.
   b. If desired, wires may be strain-relieved to the wire tie point on the inside of the case back with a tie wrap (not supplied).

3. Mount the case back to a wall or to an electrical box using the 25mm-long self-tapping screws supplied (mollies for drywall are not supplied).

4. Connect the power and data wires from the control panel to the terminals on the 6160RF as indicated in Figure 2 and Table 1.
Table 1 - Wiring Table

<table>
<thead>
<tr>
<th>Keypad</th>
<th>Control Panel</th>
<th>Wire Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>G▼ (Data Out)</td>
<td>Data In</td>
<td>Green</td>
</tr>
<tr>
<td>-</td>
<td>-Aux Pwr (GND)</td>
<td>Black</td>
</tr>
<tr>
<td>+</td>
<td>+Aux Pwr</td>
<td>Red</td>
</tr>
<tr>
<td>▲Y (Data In)</td>
<td>Data Out</td>
<td>Yellow</td>
</tr>
</tbody>
</table>

5. Reattach the keypad to the mounted case back. Attach the top of the keypad first, and then press the bottom section down until it snaps into place securely.

6. Peel off protective film on the LED panel and install the keypad labels as required.

APPLICATION GUIDELINES FOR THE 6160RF

Use the following guidelines when planning an installation:

<table>
<thead>
<tr>
<th>If…</th>
<th>And…</th>
<th>Then…</th>
</tr>
</thead>
</table>
| This is the only transceiver on the system, | You want to use both the receiver and transmitter function on a single-partition system, | • Set the keypad to a device address assigned to the desired partition.*  
• Enable the receiver.  
• Program a system House ID in the control panel (this will enable the transmitter function).**  
• Set the wireless devices that will communicate with this 6160RF to the same system House ID. |
| There is another receiver or transceiver on the system, | You want to use only the transmitter function on a second partition, | • Set the keypad to a device address assigned to the desired partition.*  
• Disable the receiver.  
• Program a DIFFERENT House ID in the 6160RF than is programmed in the control panel.*  
• Set the wireless devices that will communicate with this 6160RF to the same House ID as the 6160RF. |
| You want to use only the transmitter function on a single-partition system, | | • Set the keypad to a device address assigned to the Partition 1.  
• Disable the receiver.  
• Program a House ID in the 6160RF that matches the system House ID programmed in the control panel.*  
• Set the wireless devices that will communicate with this 6160RF to the same House ID. |

Notes:
* On VISTA-40 panels and above, wireless keypads (e.g., 5804BD) can only be used on a single partition. This partition is programmed in field 1*48, and must match the partition assigned to the 6160RF. Wireless keys can be used on more than one partition, using a House ID programmed in the 6160RF and the devices. In this case, the wireless keys must be assigned to the same partition as the 6160RF.

** On VISTA-20P panels, the 6160RF will use the House ID programmed in the panel for the partition to which it is assigned. Wireless keypads can only be used on Partition 1.

PROGRAMMING THE 6160RF

Refer to the following procedure to program the 6160RF:

<table>
<thead>
<tr>
<th>STEP</th>
<th>DESCRIPTION</th>
<th>DISPLAY</th>
<th>CHOICES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Enter the program mode by pressing the [1] and [3] keys simultaneously for a few seconds within 60 seconds after applying power.</td>
<td><strong>CON ADDRESS = XX</strong></td>
<td><strong>00-31</strong></td>
</tr>
</tbody>
</table>
| 2.   | (Keypad Address) Enter the two-digit keypad address. Press the [*] key to continue.  
Notes: (1) Refer to the control panel’s installation instructions for the acceptable keypad addresses.  
(2) On the VISTA-40 and above the 6160RF’s partition assignment must match the RF keypad partition assignment programmed in field (1*48). | **RECEIVER ON [0 = OFF]** | **1 = ON**  
**0 = OFF** |
### ACTIVATING HIGH SECURITY DEVICES

This following procedure should be followed if using High-Security (encrypted) devices.

<table>
<thead>
<tr>
<th>STEP</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Follow the normal procedure for programming the device into the control panel (refer to the Installation Instructions for the device that you are programming). Exit out of Programming Mode.</td>
</tr>
<tr>
<td>2.</td>
<td>Put the control panel in Go/No Go Test mode. (See the Installation Guide for the panel being installed.)</td>
</tr>
<tr>
<td>3.</td>
<td>Follow the instructions supplied with each wireless device to enroll the device in High-security mode. After each device is enrolled the 6160RF will momentarily display “SECURITY DEVICE” along with the device number and its serial number. Note: The 6160RF will support a maximum of 8 devices. If you attempt to enroll additional devices the keypad will display “EXCEEDED NUMBER” “ALLOWED DEVICES”.</td>
</tr>
</tbody>
</table>

### DISABLING HIGH SECURITY DEVICES

This mode gives you the ability to disable high security on all wireless keys that have been enrolled in the 6160RF. This is particularly useful if a user loses a wireless key.

Once high-security (encrypted) devices have been disabled, they will only operate if the 6160RF is set to listen to both encrypted and non-encrypted devices (programming step 6, above). To completely disable the devices, they must be deleted from the control panel.

<table>
<thead>
<tr>
<th>STEP</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>After the keypad has been powered for at least 60 seconds hold down the [1] and [3] keys at the same time for 3 seconds. The current keypad address will be displayed. (You cannot change the keypad's address at this point.) Press the [8] key to continue.</td>
</tr>
<tr>
<td>3.</td>
<td>If YES was selected in Step 2 the unit will display a confirm request to delete the stored high security device. Press the [1] key to accept, followed by the [8] key to exit the programming mode.</td>
</tr>
</tbody>
</table>
TROUBLESHOOTING
The error messages listed in the following table cause the 6160RF to produce a single ding tone. The table describes the error messages and the corrective actions.

<table>
<thead>
<tr>
<th>Display</th>
<th>Probable Cause</th>
<th>Corrective Action</th>
</tr>
</thead>
</table>
| Low Bat (with zone no.)  | Low battery in the wireless device.          | 1. Replace the battery if the wireless transmitter has a replaceable battery.  
|                          |                                             | 2. Replace the transmitter if the wireless transmitter does not have a replaceable battery. |
| Open Ckt                 | No data is being received from the control panel. | Verify that the keypad ▲Y (yellow) wire is connected properly. |
| Check 100                | 1. The control panel does not see the 6160RF Receiver, or the Receiver is not functioning. | 1a. Verify that the keypad ▲Y (yellow) and ▼G (green) wires are connected properly.  
| Check 1xx*               | 2. Another device on the keypad terminals is not communicating to the control panel. | 1b. Verify that the control's receiver address is correct.  
|                          |                                             | 2. Verify the wiring connections between the control and all other devices. |

*xx= the device address of the receiver.

SPECIFICATIONS

Physical: 5-3/8” H x 7-3/8” W x 1-1/4” D  
(137mm x 187mm x 32mm)

Wiring: Refer to Table 1

Range: 200 ft (60.9 m) nominal

Frequency: 345 MHz

Display: 2 x 16 alphanumeric supertwist LCD, backlit

Sounder: Tone Generator Integrated Circuit. (fire alarm is loud pulsing tone; burglary/audible panic alarm is continuous tone)

FOR DETAILS ON THE LIMITATIONS OF THE ENTIRE ALARM SYSTEM, REFER TO THE INSTALLATION AND SETUP GUIDE FOR THE CONTROL PANEL BEING INSTALLED IN CONJUNCTION WITH THIS DEVICE.

FCC STATEMENT & INDUSTRY CANADA STATEMENT

This device complies with Part 15 of the FCC rules and RSS210 of Industry Canada. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Federal Communications Commission (FCC) Part 15 Statement

This equipment has been 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.
• Plug the receiver/control into a different outlet so that it and the radio or television receiver are on different branch circuits

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user or installer may find the following booklet prepared by the Federal Communications Commission helpful: “Interference Handbook.” This booklet is available from the U.S. Government Printing Office, Washington, DC 20402.

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

LIMITED WARRANTY

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