



# FA570RF Keypad/Transceiver

## Installation and Setup Guide

### GENERAL INFORMATION

The FA570RF keypad/transceiver is a combination unit that combines the functions of the following devices:

- FA570KP Alphanumeric Addressable Keypad
- 5881H RF Receiver
- 5800TM Transmitter Module

The FA570RF Keypad/Transceiver may be used on any control panel that supports alphanumeric keypads and 5800 Series wireless devices.

### FEATURES

- Supports wireless key transmitters (e.g., 5804) and bi-directional transmitters (e.g., 5804BDV, 5828/5828V).
- Supports wireless keys with high-security (encryption) capability (e.g., 5804E).
- Provides a nominal range of 200' for the 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 5804BDV, and 5828/5828V.
- The FA570RF automatically times out the backlighting of all keypad keys.



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 FA570RF

Locate the FA570RF in an area and at a height where it is convenient for user operation. The FA570RF must be at least ten feet from the control panel to ensure proper operation of the RF receiver.

#### Mounting And Wiring

The FA570RF has terminal blocks for connection to power and data wires. Removing the keypad's case back provides access to the terminal blocks.

The FA570RF can be surface mounted directly to a drywall, or to a single- or double-gang electrical box.

1. **To remove the case back**, insert a small screwdriver blade at a **downward angle** into Slot 1 and twist (the right side pops up). Insert the screwdriver blade at a **downward angle** into Slot 2 and twist (the left side pops up). Insert the screwdriver blade into right side **narrow** Slot 3 and twist. Separate the case back from upper case.

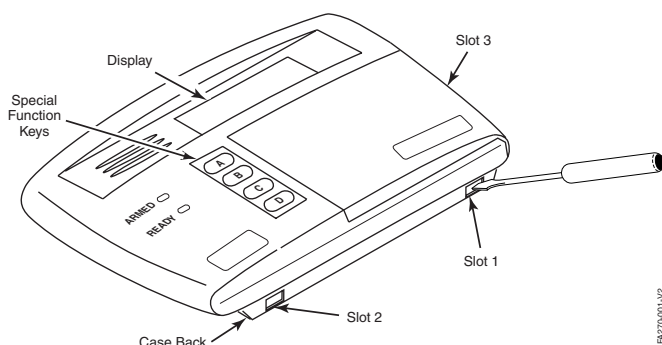


Figure 1. Removing the Case Back

### FUNCTION KEYS (refer to Figure 1)

The A, B, and C keys are designed for use as “panic” keys (e.g., fire, police, personal emergency, etc.) or other special functions on certain control panels. The D key may be used as a “macro” key or other special functions with control panels that support this feature. This allows a single key to execute a preprogrammed series of system functions (e.g., bypassing zones, arming, etc.)



The A, B, C, and D keys must be pressed and held down for at least two seconds to activate their programmed panic functions.

2. **Route wiring from the control panel** through the large opening in the case back.
  - 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 electrical box.
4. **Use the wiring table on the next page when connecting the keypad.** Wire directly from the keypad's terminal block to the terminal block on the control's PC board. Wire functions are marked next to terminals. See the control panel's Installation Instructions for more complete details.

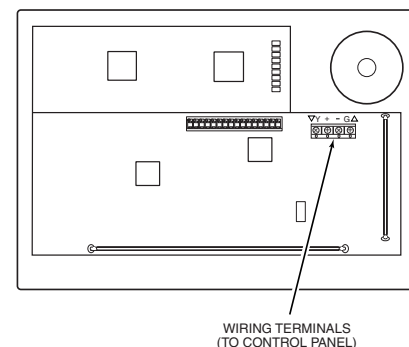


Figure 2. FA570RF Wiring Details (back cover removed)

5. **Reattach the keypad** to its 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.

**Table 1 - Wiring Table**

Keypad	Control Panel	Wire Color
▲ G (Data Out)	Data In	Green
-	-Aux Pwr (GND)	Black
+	+Aux Pwr	Red
▼ Y (Data In)	Data Out	Yellow

**APPLICATION GUIDELINES FOR THE FA570RF**

Use the following guidelines when planning an installation:

If...	And...	Then...
This is the only transceiver on the system,	You want to use both the receiver and transmitter function on a single-partition system,	<ul style="list-style-type: none"> <li>Set the keypad to a device address assigned to the desired partition.*</li> <li>Enable the receiver.</li> <li>Program a system House ID in the control panel (this will enable the transmitter function).**</li> <li>Set the wireless devices that will communicate with this FA570RF to the same system House ID.</li> </ul>
There is another receiver or transceiver on the system,	You want to use only the transmitter function on a second partition,	<ul style="list-style-type: none"> <li>Set the keypad to a device address assigned to the desired partition.*</li> <li>Disable the receiver.</li> <li>Program a DIFFERENT House ID in the FA570RF than is programmed in the control panel.* / **</li> <li>Set the wireless devices that will communicate with this FA570RF to the same House ID as the FA570RF.</li> </ul>
	You want to use only the transmitter function on a single-partition system,	<ul style="list-style-type: none"> <li>Set the keypad to a device address assigned to the Partition 1.</li> <li>Disable the receiver.</li> <li>Program a House ID in the FA570RF that matches the system House ID programmed in the control panel.*</li> <li>Set the wireless devices that will communicate with this FA570RF to the same House ID.</li> </ul>

**Notes:**

\* On FA1220CV panels and above, wireless keypads (e.g., 5828V) can only be used on a single partition. This partition is programmed in field 1\*48, and must match the partition assigned to the FA570RF. Wireless keys can be used on more than one partition, using a House ID programmed in the FA570RF and the devices. In this case, the wireless keys must be assigned to the same partition as the FA570RF.

\*\* On FA168CPS panels, the FA570RF 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 FA570RF**

Refer to the following procedure to program the FA570RF:

STEP	DESCRIPTION	DISPLAY	CHOICES
1.	Enter the program mode by pressing the [1] and [3] keys simultaneously for a few seconds within 60 seconds after applying power.		
2.	(Keypad Address) Enter the two-digit keypad address. Press the [*] key to continue.  <b>Notes:</b> (1) Refer to the control panel's installation instructions for the acceptable keypad addresses.  (2) On the FA1220CV and above the FA570RF's partition assignment must match the RF keypad partition assignment programmed in field (1*48).	<i>CON ADDRESS = XX</i>	00-31
3.	(Receiver Enable) Enter [1] to enable, or [0] to disable Receiver. Enable the receiver if RF transmitters or wireless keypads are programmed into the control and no other receivers are enabled. Press the [*] key to continue.	<i>RECEIVER ON (0 = OFF)</i>	1 = ON 0 = OFF
4.	(Receiver Address) If receiver is enabled, enter the two-digit receiver address. (01-30).  <b>Note:</b> Refer to the control panel's installation instructions for the acceptable receiver addresses.  Press the [*] key to continue.	<i>REC ADDRESS = XX</i>	00-30

STEP	DESCRIPTION	DISPLAY	CHOICES
5.	(House ID) This prompt will only appear if the receiver is disabled. If the receiver is enabled the FA570RF will use the House ID programmed in the panel.  Refer to the Application Guidelines on the previous page when selecting a House ID.  To program a House ID: Enter 01-31. To disable the transmitter: Enter 00  <b>Note: All devices that you want to receive status from the FA570RF must be set to the same House ID as the FA570RF (refer to Table on Page 1).</b>  Press the [*] key to continue.	<i>HOUSE ID = XX</i>	00-31
6.	(Enable High Security Mode) Enter [1] to select High Security Mode.  <b>Note: If this mode is enabled, the FA570RF will only recognize encrypted devices. If this mode is disabled, the FA570RF will recognize both encrypted and non-encrypted devices.</b>  Press the [*] key to continue.	<i>HIGH SECURITY OFF [1 = ON]</i>	1 = Enable 0 = Disable
7.	(Disable High Security Devices) Press the [*] key to skip this prompt and exit Program Mode.  <b>Note: If you need to disable encrypted devices, refer to the Disabling High Security Devices section.</b>	<i>DISABLE HS DEVP NO [1 = YES]</i>	1 = YES 0 = NO



**When operating the system in High-Security mode, the 5804BD wireless keys will still function. If you want the system to recognize only encrypted wireless devices, program only encrypted devices in the system.**

### ACTIVATING HIGH SECURITY DEVICES

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

STEP	DESCRIPTION
1.	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.
2.	Put the control panel in Go/ No Go Test mode. (See the Installation Guide for the panel being installed.)
3.	Follow the instructions supplied with each wireless device to enroll the device in High-security mode. The FA570RF will momentarily display the serial number of the device.

### DISABLING HIGH SECURITY DEVICES

This mode gives you the ability to disable high security on all wireless keys that have been enrolled in the FA570RF. 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 FA570RF 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.**

STEP	DESCRIPTION	DISPLAY	CHOICES
1.	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 [*] key to continue.	<i>CON ADDRESS/XX</i>	00-31
2.	(Delete High Security Devices) Press the [1] key to remove all high-security (encrypted) devices. Press the [*] key to continue.	<i>DISABLE HS DEVP NO [YES]</i>	1 = YES 0 = NO
3.	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 [*] key to exit the programming mode.	<i>ARE YOU SURE? NO [YES]</i>	1 = YES 0 = NO

## TROUBLESHOOTING

The error messages listed in the following table causes the FA570RF to produce a single ding tone. The table describes the error messages and the corrective actions.

Display	Probable Cause	Corrective Action
<b>Low Bat XXX (XXX = transmitter zone number)</b>	Low battery in the wireless key.	<ol style="list-style-type: none"> <li>1. Replace the battery if the wireless key has a replaceable battery.</li> <li>2. Replace the transmitter if the wireless key does not have a replaceable battery.</li> </ol>
<b>Open Ckt</b>	No data is being received from the control panel.	Verify that the keypad Data in (yellow) wire is connected properly.
<b>Check 09,</b> Check <b>1XX</b> , or Check <b>6XX</b> (XX = device address of the FA570RF) Note: Message depends on control panel.	<ol style="list-style-type: none"> <li>1. The control panel does not see the FA570RF Receiver, or the Receiver is not functioning.</li> <li>2. Another device on the keypad terminals is not communicating to the control panel.</li> </ol>	<ol style="list-style-type: none"> <li>1a. Verify that the keypad Data In (yellow) and Data Out (green) wires are connected properly.</li> <li>1b. Verify that the control's receiver address is correct.</li> <li>2. Verify the wiring connections between the control and all other devices.</li> </ol>

## SPECIFICATIONS

**Physical:** 7-3/4"W x 5-3/8"H x 1-1/8"D  
(197mm x 136.5mm x 28.6mm)

**Wiring:** Refer to Table 1

**Range:** 200 ft (60.9 m) nominal

**Frequency:** 345 MHz

**Voltage:** 12VDC

**Current:** Standby 50mA

Backlighting on and  
Sounder on 150mA

**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 INSTRUCTIONS FOR THE CONTROL PANEL BEING INSTALLED IN CONJUNCTION WITH THIS DEVICE.**

### FCC STATEMENT

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, and (2) This device must accept any interference received, including interference that may cause undesired operation.

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.

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