

# REMOTE KEYPADS FA210KP, FA250KP, FA450KP, FA550KP, FA550KPV

## INSTALLATION GUIDE

KEYPAD FEATURES	FA210KP Fixed-Word	FA250KP Fixed-Word	FA450KP 1-Line Alpha	FA550KP† 2-Line Alpha	FA550KPV Voice 2-Line Alpha
Backlit Display	No	Yes (see note 1)	Yes (see note 1)	Yes (see note 1)	Yes (see note 1)
Dedicated Panic Keys	No	Yes	Yes	Yes	Yes
Built-in Sounder	Piezo	Speaker	Speaker	Speaker	Speaker
Flush Mount Option	No	Yes	Yes	Yes	Yes
Desk Mount Option	No	Yes	Yes	Yes	Yes
<b>FIRST ALERT CONTROLS</b>	▼	▼	▼	▼	▼
FA100C/FA110C*	Yes	Yes	No	No	No
FA120C*	Yes	Yes	No	No	No
FA200C*	Yes	Yes	No	No	No
FA2000C*/FA2100C*	No	Yes	No	Yes	see note 2
FA140C*/FA150C*/FA160C*	Yes	Yes	Yes	Yes	see note 2
FA1200C*/FA1220C**	Yes	Yes	No	Yes	see note 2
FA1300C**/FA1330C**/FA1340C**	Yes	Yes	No	Yes	see note 2
FA1500C**/***	No	No	No	Yes	see note 2
FA1220CV**/FA1350C**	Yes	Yes	No	Yes	Yes (see note 2)

† A 2-line alpha-numeric display keypad must be used to program these controls: FA140C, FA150C, FA160C, FA1200C, FA1220C, FA1220CV, FA1300C, FA1330C, FA1340C, FA1350C & FA1500C, FA2000C, FA2100C.

\* Use non-addressable mode with these controls (set to address 31)

\*\* Use addressable mode (addresses 00-30).

\*\*\* Use keypad FA550KP with the FA550DRD color insert ("red" for fire installations) as required by local authority having jurisdiction.

- Notes:**
1. Permanent display backlighting is an option on some controls - see the control's instructions.
  2. FA550KPV keypads include a built-in microphone and are intended for use with First Alert systems supporting the Voice Interface Module (VIM) but otherwise are identical to the FA550KP in operation and displays. Therefore, they can be used as non-voice, 2-line alpha keypads with systems supporting the FA550KP.

### GENERAL INFORMATION

These addressable Remote Keypads are intended for use with the controls listed in the table above. Addresses are programmed via the keypad keys (no DIP switches) and can be set for the non-addressable operation (address 31) if required by the control with which they are used. A Red "ARMED" indicator lights when the system is armed in any mode, and a Green "READY" indicator lights when the system is "ready" to be armed.

The keys on the keypads are located behind a decorative door (except the FA210KP keypad) and are continuously backlit for ease of use, except the FA210KP keypad. The FA250KP, FA450KP, and FA550KP also feature special panic keys, labeled A, B, & C. The D key is used as a speed key (macro key) in certain panels (e.g., FA1220C/FA1220CV). The FA210KP uses key pairs for panic - [\*] & [#], [3] & [#], and [1] & [\*]. **Panic keys (or key pairs) must be held down for at least 2 seconds to activate an alarm.**

A set of adhesive backed labels with some typical "panic" symbols (i.e., fire, police, personal emergency, etc.) is provided which can be placed on or next to these 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).

The Fixed-Word keypad display provides 2-digit numerics for zone identification and a set of pre-designated English language prompts (e.g., "ALARM", "AWAY", "STAY", "CHECK", etc.) for indicating the system's status. The 2-line Alpha keypads have a programmable 2-line, 32 character (16 character per line) English language display for complete zone identification (if programmed) and system status in controls supporting 2-line alpha keypads.

#### FA450KP, One-Line Display Keypad:

Some controls (e.g., FA140C, FA150C, FA160C) send two 1-line displays of information to the FA450KP keypad. To display the second line of information, press the [#] key. Press the [#] key again to return to the first line of information. The display automatically returns to the first line if no key is pressed for 3 seconds.

**NOTE:** After pressing the [#] key to view the second line or return to the first line, wait at least 3 seconds before entering a control panel command (e.g., arm the system).

The keypads also feature color inserts for matching a keypad to a room's decor. A warm gray color insert is provided with each keypad. Additional color inserts can be ordered separately: FA550DCG = cool gray; FA550DPB = pebble; FA550DRD = red (fire installation)

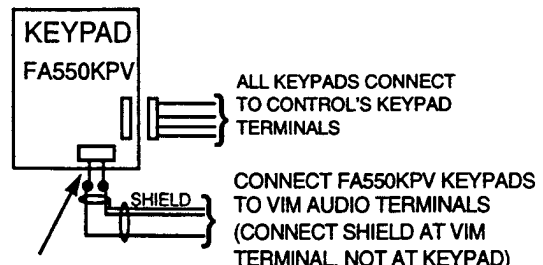
### WIRING AND MOUNTING

1. Remove the case back by pushing down two "snaps" along keypad's top edge and pull apart (for the FA210KP, remove the 2 screws: one at top center, one at bottom center).
2. Route wiring from the control panel through the opening in the case back.
3. The keypads can be surface mounted directly to a drywall, or to a single or double gang electrical box. **If surface mounting, mount the case back** to a wall or electrical box. For flush mounting to drywall, use the optional FA550TRK trim ring kit (not applicable to FA210KP).  
The keypads can also be mounted for desk-top operation using the FA550DM Desk Mount Kit (not applicable to FA210KP).
4. Plug the supplied flying lead connector into the keypad PC board and splice the panel wiring to it. Wire colors and functions are described in the SPECIFICATIONS section.
5. Remove the clear protective films from the LCD display and keypad labels.

### FA550KPV KEYPAD AUDIO CONNECTION FOR 2-WAY VOICE OPERATION

1. Follow the instructions for WIRING AND MOUNTING above.
2. The FA550KPV requires a shielded 2-wire connection to a Voice Interface Module (VIM). Splice the flying leads of the supplied SA550AB Audio Bus connector to this shielded cable, then plug the connector into the FA550KPV keypad's J5 connector located along the bottom of the PC board.

**IMPORTANT:** Connect the shield at the VIM module, not at the keypad, as shown in the VIM's wiring diagram.



USE SA550AB AUDIO CONNECTOR SPICED TO SHIELDED CABLE WHEN USING FA550KPV KEYPAD

### SETTING THE KEYPAD ADDRESS (no DIP switches)

These keypads can be set for address 00-31 (entries greater than 31 are ignored), which is stored in EEROM memory. The keypad's default address is 31 (non-addressable mode).

NOTE: Set FA550KPV keypads to addresses 01-15 when used in 2-way voice installations.

#### To change the keypad's address, do the following:

1. **Enter address mode:** Power-up (plug-in) the keypad. Within 60 seconds of power-up, press and hold down the [1] and [3] keys at the same time for 3 seconds. (If unable to enter address mode, power-up and try again).

The current keypad address will be displayed, and the cursor will be under the "tens" digit. If 10 seconds have passed with no key entry, the keypad automatically exits the address mode. You must power down, power-up and start address mode again.

NOTE: The keypad will not enter the address mode if the panel to which it is connected is in programming mode.

2. **Set the current address to "00":** Press [0] to clear the current "tens" digit. The cursor will move to the "ones" digit position. Press [0] to clear the current "ones" digit. The cursor will move back to the "tens" digit position.

3. **Enter the keypad's address:** Enter the proper "tens" digit of the keypad's address. The cursor will move to the "ones" digit position. Enter the proper "ones" digit of the keypad's address. Note that address "31" sets the keypad to non-addressable mode.

4. **Exit address mode:**

Press [\*] to save the displayed address and exit address mode.

Note: If 10 seconds pass with no key entry, the keypad automatically exits address mode.

### VIEWING THE KEYPAD ADDRESS

Press and hold down the [1] and [3] keys at the same time for about 3 seconds. The current address displays. No key entry is allowed. Press any key to exit or wait 10 seconds to exit viewing mode.

### FA550KPV KEYPAD "TALK MODE" AUDIO LEVEL

The FA550KPV's audio level for "talk mode" and "VOX mode" can be programmed for "high," "medium," or "low."

1. Enter the keypad's programming mode by pressing and holding down the [1] and [3] keys at the same time for 3 seconds. The keypad's address is displayed.

2. a. Press and hold down the "D" key for 2 seconds. The current "talk mode" audio level is displayed (high, medium, or low).

b. Press the [#] key repeatedly to toggle the settings from high to medium to low until the desired level is displayed.

3. a. Press the "D" key again to enter "VOX mode" level setting. The current "VOX mode" audio level is displayed (high, medium, or low).

(continued on next column)

b. Press the [#] key repeatedly to toggle the settings from high to medium to low, so as to obtain the highest level at which there is no undesired keypad feedback (microphonics) during a 2-way audio session.

4. Pressing the "D" key again returns to the talk mode setting, etc.

Press [\*] to exit keypad programming mode.

Volume settings are saved in EEROM memory.

### NOTES:

The keypad returns to normal mode if no key is pressed for 30 seconds.

Powering down the keypad does not change the level setting.

### SPECIFICATIONS:

**Physical** FA250KP/FA450KP/FA550KP/FA550KPV:

6-3/8"H x 5-1/6"W x 1-1/4"D

**FA210KP:**

4-3/4"H x 5-3/4"W x 1"D

### Wiring:

(all Keypads)

Red: +12VDC

Black: ground. (aux -)

Green: Data to control panel.

Yellow: Data from control panel.

### Current:

**FA250KP:**

30mA standby (no LCD backlighting).

40mA standby (LCD backlighting on).

120mA maximum (LCD backlighting and sounder on).

**FA210KP:**

25mA standby (sounder off).

30mA maximum (sounder on).

**FA450KP/**

**FA550KP:**

40mA standby (no LCD backlighting).

70mA standby (LCD backlighting on).

**FA550KPV:**

140mA maximum (LCD backlighting and sounder on).

55mA standby (no LCD backlighting).

85mA standby (LCD backlighting on).

170mA maximum (LCD backlighting and sounder on).

### Sounder:

**FA250KP/FA450KP/FA550KP/FA550KPV:**

0.2W speaker.

**FA210KP:** Piezo

(Fire alarm is loud, pulsing single tone; burglary

alarm is loud, continuous, dual tone).

### Displays:

**FA210KP:**

Fixed-Word LCD.

**FA250KP:**

Fixed-Word LCD, LCD backlit.

**FA450KP:**

1 x 16 alpha-numeric supertwist LCD backlit.

**FA550KP/**

**FA550KPV:**

2 X 16 alpha-numeric supertwist LCD backlit.

REFER TO INSTALLATION INSTRUCTIONS FOR THE CONTROL PANEL WITH WHICH THIS DEVICE IS USED, FOR DETAILS ON LIMITATIONS OF THE ENTIRE ALARM SYSTEM.

### LIMITED WARRANTY

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