



5827BD and 5827BDE WIRELESS BI-DIRECTIONAL KEYPADS Used with 5800TM Transmitter Module

INSTALLATION INSTRUCTIONS and OPERATING GUIDE

Unless otherwise indicated, all information in this manual is applicable to both the 5827BD and 5827BDE

GENERAL INFORMATION

The 5827BD and 5827BDE Wireless Bi-directional Keypads are designed to be used in conjunction with a 5800TM Transmitter Module. Additional 5827BDs (any quantity) may be used in conjunction with the same 5800TM; however, no more than eight 5827BDEs may be used. The 5800TM is compatible with any control panel that is *also* equipped with a 4281 type (5700 System) or 5881 type (5800 System) RF receiver.

Note: The 5827BDE is an enhanced version of the 5827BD and employs Ademco's new SignalSentry™ technology, which can provide high security wireless transmissions when used in conjunction with the 5881EH RF receiver.

The 5827BD and 5827BDE can operate the protection system similarly to other wireless keypads, via keypad buttons. In addition, three LEDs (Red, Green, and Yellow) and a piezoelectric sounder can indicate status information relative to:

System arming/trouble/emergency, RF transmission/confirmation, and 5827BD/5827BDE programming and power.

The keypad configuration is similar to that of standard keypads. The [★] key, however, is also the [ON/STAT] (power-up and system status inquiry) key instead of a "READY" key, as it is on other keypads (see *OPERATION*). There are three panic keys: A, B, and C, comparable to the individual keys (or panic key pairs of [1] & [★], [★] & [#], and [3] & [#] respectively) on other keypads.

The 5827BD and 5827BDE keypads, if so-programmed, also feature "Quick Key" operation, which allows use of the [#] key instead of entry of the security code when performing functions.

5800TM Transmitter Module

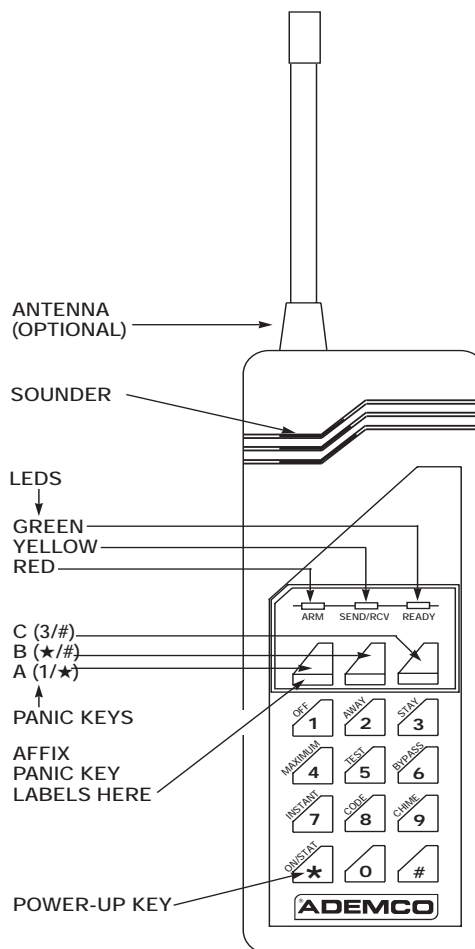
For every installation of one or more 5827BD or 5827BDE Wireless Keypads, one 5800TM is required. The 5800TM complements the RF receiver in that it transmits the information to be displayed on, or sounded by, the 5827BD or 5827BDE. No modification to the control is necessary. The 5800TM connects directly to the control's wired keypad connection points, as described later.

5827BD & 5827BDE INSTALLATION

The 5827BD and 5827BDE are designed to be portable, for use throughout the protected premises. If desired, a wireless keypad may be stored on its accompanying mounting bracket (easily installable via two countersunk mounting holes). Keyhole slots on the rear of the keypad slip onto two hooks on the mounting bracket, allowing the keypad to be easily removed when desired.

When operating, or selecting a location for storing the wireless keypad, observe the same precautions as used for locating the wireless system's other transmitters (see the control panel's instruction manual). For example, operating the keypad on or near large metal objects may decrease range and/or block transmissions.

- Install the keypad's 9-volt Alkaline battery.** Slide off the battery compartment cover at the rear of the keypad and insert the battery. Observe polarity! Then replace the cover.
- Program the keypad's memory** as indicated next.



Programming the Wireless Keypad

- Power up the keypad** by depressing the [★] key. *The yellow LED will blink.*
If the keypad was previously programmed, the system status may also be annunciated (see *Power-up and System Status Inquiry* on the next page).
- Enter the keypad programming mode** by depressing both the [1] and [3] keys at the same time for 3 seconds.
Alternate blinking of the red and green LEDs confirms that the unit is in the keypad programming mode.
- Program the desired functions, in the order given in the Programming table that follows.** Note that every sequence starts with a [★] and ends with a [#].

PROGRAMMING TABLE FOR 5827BD AND 5827BDE*

* **Note:** A section later in this manual provides the necessary information for enrolling the 5827BDE as a SignalSentry (high security) device. See *Enrolling the 5827BDE as a SignalSentry Device*. However, the 5827BDE must first be set up and tested in its normal operating mode, as indicated in the following sections.

FUNCTION	ENTER
1. To Enter YOUR System's 4-Digit Master Code :	[*] + [8] + [4-Digit Master Code] + [#]
2. To Enable Quick Key Operation † (Arm, Disarm, & Chime): or To Enable Quick Key Operation † (Arm & Chime, but <i>not</i> Disarm)	[*] + [1] + [4-Digit Master Code] + [#] [*] + [2] + [4-Digit Master Code] + [#]
3. To Enter YOUR 5700/5800 System's House ID: (e.g., 06) selected from 01–31	[*] + [9] + [0] + [6] + [#]
4. To Enter RF System Used, 5700 system (4281 type RF receiver): or To Enter RF System Used, 5800 system (5881 type RF receiver):	[*] + [5] + [7] + [#] [*] + [5] + [8] + [#]
5. To Exit the keypad programming mode:	[*] + [#]

† Enabling "Quick Key" may be skipped if this is not desired.

Notes:

1. Upon the detection of each closing '#', a confirmation sound is generated:
 - a) Following a valid entry, a triple beep.
 - b) Following an erroneous entry, a single, long (2 sec) beep.
2. The keypad can be re-programmed at any time.
3. Each time the keypad programming mode is entered, Quick Key operation is disabled and must be re-enabled, if so desired.

3. **Affix the appropriate panic key label to the space below any panic key that is active**, according to the function that has been programmed for it in the control. A sheet of labels accompanies the wireless keypad.

Note: *Not all of the three panic keys may be active for the system with which the keypad is used.* This depends on the type of control used and its programming. Refer to the control's installation manual.

4. **Connect the provided antenna, if necessary**, by screwing it into its threaded connector at the top of the wireless keypad. The keypad has an internal antenna, and in many installations the system will operate adequately with this antenna alone. However, for large installations where longer range may be required, it may be necessary to add the external antenna.

5800TM Transmitter Module Installation

Installation instructions accompany the 5800TM, but are given here as well, for your convenience.

Observe the same precautions in selecting a location for the 5800TM as for the system's RF receiver, to ensure good transmission and reception. *The 5800TM must be located next to the system's receiver (between one and two feet from the receiver's antennas).* Do not install the 5800TM within the system control panel's cabinet. Mount it remotely, on its accompanying mounting bracket. The bracket is identical to the one that accompanies the wireless keypad and may be mounted in the same way.

5800TM Transmitter Module Programming

For an Addressable System:

1. **Select one of the following addresses for the 5800TM** by removing its cover and cutting the appropriate jumper(s) on its circuit board, as follows:

FOR ADDRESS	CUT JUMPER(S)
28	RED (W1)
29	WHITE (W2)
30	BOTH

2. **Program the control panel**, by designating the address (selected above) as a wired keypad in the system's "Device Programming" section.

3. For addressable 2-partitioned systems, i.e., Vista-40, cut Red for partition 1 or White for partition 2. No additional programming is necessary.

For a Non-Addressable System:

Do not cut any jumpers. No programming is required.

5800TM Transmitter Module Wiring Connections

Connect the 5800TM to the control panel's keypad connection points, using the supplied connector with flying leads. Wire colors and functions match those for wired keypads:

- RED: +12VDC
- BLACK: Ground
- GREEN: Data to Control Panel
- YELLOW: Data from Control Panel
- BLUE: *Not used*

OPERATION

Power-up and System Status Inquiry

Touching the [*] ([ON/STAT]) key powers up the wireless keypad, and sends an inquiry to the 5800TM, requesting the system status to be annunciated (see table on next page). Subsequent depressions of the same key will initiate additional inquiries.

Notes:

1. Upon power-up (by depression of the [ON/STAT] key, the yellow LED will blink. The yellow LED will be lit during RF communication, indicating transmission is in progress or reception has just been completed. *If a low battery condition exists in the wireless keypad, it will be displayed on wired keypads as zone "00." (or "64" on some controls).*
2. At any time (following a power-up), the depression of any key and its acceptance by the keypad will be indicated by a blink of the yellow LED, and a brief key actuation "blip" will be heard. (As explained later, a *panic* key has to be continuously depressed for at least 2 seconds in order to power-up and/or be accepted by the system.)
3. A long (2 second) beep occurring within 4 seconds after power-up or following the last key depression (of a command or an inquiry) indicates lack of response from the control (via the 5800TM). Press the [ON/STAT] key again (or move to a new location and re-key your command).

Approximately 10 seconds after the last key depression, the wireless keypad will automatically power down.

No subsequent LED or sound indications will occur until the unit is again powered up (thus, in chime mode, the chime is not annunciated by the wireless keypad).

The following table shows the various status indications that can occur during the time that the unit is powered up.

SYSTEM STATUS INDICATIONS for 5827BD/5827BDE			
LED	LED CONDITION	KEYPAD'S SOUNDER	SYSTEM STATUS ^①
RED (ARM)	ON	2 BEEPS ^②	ARMED AWAY OR MAXIMUM
	STEADILY	3 BEEPS ^②	ARMED STAY OR INSTANT
	BLINKING	PULSED BEEPING ^③	ARMED, FIRE ALARM IN PROGRESS, OR MEMORY OF IT IS PRESENT
		STEADY SOUND ^③	ARMED, BURGLARY IN PROGRESS, OR MEMORY OF IT IS PRESENT
	SILENT	DISARMED, BUT NOT YET CLEARED OF ALARM MEMORY HISTORY (BURGLARY OR FIRE)	
GREEN (READY)	ON STEADILY	1 BEEP ^②	DISARMED, READY TO ARM
	BLINKING	SILENT	DISARMED, NOT READY TO ARM
YELLOW ^④ (SEND/RCV)	BLINK	BRIEF "BLIP"	KEY DEPRESSION AFTER POWER-UP
	BLINK	SILENT	UPON 5827BD/5827BDE POWER-UP
			RF TRANSMISSION IN PROGRESS OR RECEPTION JUST COMPLETED

and, as explained in the *INSTALLATION* section for the wireless keypad:

RED & GREEN	ALTERNATELY BLINKING	SILENT	5827BD/5827BDE IS IN KEYPAD PROGRAMMING MODE
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- ① With 4111XM and VISTA-20 systems, *status monitoring* is restricted to Partition 1; however, each partition can be *controlled* by 5827BD/5827BDEs programmed to the partition's House ID.
- ② Upon the depression of the [ON/STAT] key or following an arm or disarm sequence.
- ③ Successive depression of the [ON/STAT] key will toggle these sounds off and on to alternate with the annunciation of the system's armed or disarmed status. See *Alarm Memory*.
- ④ No yellow light blinking may indicate a low battery (also displayed on wired keypads as "00" or "64").

Routine Operation

The routine operation of the 5827BD or 5827BDE (arm, disarm, chime) is similar to the operation of other wired keypads used with the system (as described in the system's User's Manual).

Press the [ON/STAT] key before performing the desired operation.

Note: The following considerations are necessitated by the fact that there is no zone display on the 5827BD or 5827BDE:

- a. If the system is "not ready to arm" (green LED blinking), a wired keypad's display can determine which zone is "not ready".
- b. Bypassing protection zones should *only* be performed at a wired keypad so that it can be determined which zones are to be bypassed.
- c. Alarm memory history, if present (see *Alarm Memory* on next page), should be cleared only at a wired keypad so that the zone(s) displayed there that were in alarm condition can first be determined.

Quick Key Operation

Note: Quick Key operation should NOT be used if a relay command utilizing the "#" key has been programmed in the system (ex. 1234#7).

When programmed for Quick Key operation, the 5827B/5827BDE permits the use of the [#] key (instead of the usual 4-digit security code) for all functions, or for all functions except disarm, as selected earlier.

First press the [ON/STAT] key.

Next, press the [#] key and select the desired function as follows.

Quick Key Arm:

This is similar to the QUICK ARM function via wired keypads, but once programmed here, it is always functional, whether the system is programmed for QUICK ARM or not.

To Arm AWAY, enter: [#] + [AWAY]
 To Arm STAY, enter: [#] + [STAY]
 To Arm INSTANT, enter: [#] + [INSTANT]
 To Arm MAXIMUM, enter: [#] + [MAXIMUM]

Quick Key Disarm:

This is a unique function. Wired keypads do not allow "quick" disarming. To DISARM, enter: [#] + [OFF]

Quick Key Chime:

To toggle CHIME mode on or off, enter: [#] + [CHIME]

Panic Keys

The 'A', 'B', and 'C' keys on the wireless keypad are comparable to the individual keys (or key pairs, i.e., [1] & [★], [★] & [#], and [3] & [#] respectively) present on other keypads, and their function will correspond to the control's programming for them. *All three panic keys may not be active for the system with which the keypad is used. This depends on the capabilities of the control used and its programming.*

No prior depression of the [ON/STAT] key is needed.

Depression of any of the 3 panic keys for two seconds causes the transmission of its function (if/as programmed by the control) and powers up the keypad as well.

The yellow transmission/reception LED will light, a brief key actuation "blip" will occur, and the display of the system status will be initiated, but (for personal safety purposes) confirmation sounds will *not* be emitted.

Alarm Memory

If the [ON/STAT] key is pressed during or following a fire or burglary alarm sounding period, the wireless keypad will announce the appropriate warning sounds.

Successive depression of the [ON/STAT] key will toggle these sounds off and on to alternate with the announcement of the system's armed or disarmed status.

The system can be disarmed by entering the appropriate disarm sequence at the 5827BD or 5827BDE, or any keypad. Alarm memory *history* will still be present, however, as evidenced by the wireless keypad's blinking red LED, and silent sounder.

Normally, alarm memory history is *cleared* by entering the system's disarm sequence a *second* time after the system is disarmed. In this case, this second disarm sequence should be performed at a wired keypad, after the zone(s) displayed there that were in alarm condition have been determined.

Enrolling a 5827BDE as a SignalSentry Device

When enrolled as a SignalSentry device, the 5827BDE can provide high security wireless transmissions when used in conjunction with the 5881EH RF receiver. This is made possible through the use of the SignalSentry technology in the 5827BDE and 5881EH.

When the 5881EH RF receiver is placed in its high security mode (DIP switch #1 ON), the receiver will accept normal wireless commands *until a 5827BDE is enrolled as SignalSentry device*. Thereafter, the RF receiver will ignore commands (INCLUDING PANIC KEYS) from a 5827, 5827BD or any 5827BDE operating in the normal mode.

Important: The control panel, a wired keypad, the 5800TM, and all 5881EHs* used, must be installed and operating before a 5827BDE can be enrolled as a SignalSentry device. Also, set up the 5827BDE and perform any programming required, as indicated on the previous pages for both a 5827BD and 5827BDE.

* 5881EH RF receivers must be set to the high security mode (DIP switch #1 ON) if all 5827BDEs in the system will be operating in the SignalSentry mode. If other wireless keypads (5827s, 5827BDs) are also in the system, set DIP switch #1 in the RF receiver to the OFF position. This will enable all wireless keypads to function in the system, whether in the SignalSentry or normal mode.

Enrollment Procedure

1. Place the control panel in the Go/No Go TEST mode (this will reduce the receiver sensitivity). Refer to the control panel's instructions for the entry required.
2. Power up the 5827BDE keypad (press [★] key), and place the unit in the keypad programming mode by depressing the [1] and [3] keys at the same time for 3 seconds. Alternate blinking of the Red and Green LEDs confirms that the unit is in the keypad programming mode.
3. Enter the following key sequence on the 5827BDE:
[★] + [6] + [4-digit master code] + [#].

The 5827BDE will beep 3 times and the 3 LEDs will begin blinking once every 2 seconds. Allow them to blink several times before exiting the keypad programming mode. If a single long beep is heard, the device is not a 5827BDE.

Note: If using a 2-receiver system, walk through the entire area where the keypad will be used, as the keypad must be enrolled by both receivers (the 3 LEDs will continue to blink once every 2 seconds). If you are not sure whether you have one or two receivers, walk through the entire area anyway.

4. Exit the keypad programming mode by keying [★] + [#].
Shortly after exiting the programming mode, all 3 LEDs on the wireless keypad will blink briefly. If the keypad has been

successfully enrolled, the system status will be displayed by one of the LEDs on the 5827BDE after a few seconds (armed or ready,). At this time, some systems will emit 3 beeps from the **wired keypad(s)**.

If unsuccessful, the system status will not be displayed by the 5827BDE, and you must repeat steps 3 and 4.

5. Repeat steps 2 through 4 for each additional 5827BDE (up to eight) to be enrolled as a SignalSentry device.
6. Exit the Go/No Go TEST mode on the control panel (Code + OFF).

Returning a 5827BDE To Its Normal Operating Mode (Non-SignalSentry)

This procedure is included for those cases where you may wish to convert a 5827BDE previously enrolled as a SignalSentry device to "normal" operation.

Important: In cases where there is only one 5827BDE in the system and you wish to return it to its normal operating mode, or where there are multiple 5827BDEs in the system and you wish to return **all** 5827BDEs to their normal mode, use the procedure entitled *Enrollment Reset*.

1. Place the control panel in the Go/No Go TEST mode (this will reduce the receiver sensitivity).
2. Power up the 5827BDE keypad (press [★] key), and place the unit in the keypad programming mode by depressing the [1] and [3] keys at the same time for 3 seconds. Alternate blinking of the Red and Green LEDs confirms that the 5827BDE is in the keypad programming mode.
3. Enter the following key sequence on the 5827BDE:
[★] + [7] + [4-digit master code] + [#].

The 5827BDE will beep 3 times and the 3 LEDs will begin blinking once every 2 seconds. Allow them to blink several times before exiting the keypad programming mode. If a single long beep is heard, the device was either not enrolled as a SignalSentry device, or it is not a 5827BDE.

4. Exit the keypad programming mode by keying [★] + [#].
If the 5827BDE was successfully returned to the normal operating mode, the yellow SEND/RCV LED (only) on the wireless keypad will blink once.

Note: If there will be some 5827BDEs in the SignalSentry mode and others in the normal mode in the system, *DIP switch #1 in the 5881EH receiver must be set to the OFF position*. If this is not done, only those 5827BDEs in the SignalSentry mode will be able to communicate with the receiver.

5. Repeat steps 2 through 4 for each additional 5827BDE to be returned to its normal operating mode.
6. Exit the Go/No Go TEST mode (Code + OFF) on the control panel.

Enrollment Reset (All 5827BDE Keypads Returned to the Non-SignalSentry Mode)

Note: This procedure is used with any one 5827BDE to return *all* previously enrolled 5827BDE keypads in the system to their normal (non-SignalSentry) operating mode. This procedure also deletes all keypad serial numbers from the memory of the 5881EH receiver.

You will need to use this procedure if a 5827BDE in a system containing one or more 5827BDEs has been lost or stolen, or if you suspect that the keypad encryption has been compromised in some way.

When the following procedure has been performed with one 5827BDE, all existing 5827BDEs, including any new replacements, can then (if desired) be re-enrolled as SignalSentry devices, following the procedure in the previous section entitled *Enrollment Procedure*.

1. Place the control panel in the Go/No Go TEST mode (this will reduce the receiver sensitivity).
2. Press [★] key to power up a 5827BDE keypad, and place that unit in the keypad programming mode by depressing the [1] and [3] keys at the same time for 3 seconds. Alternate blinking of the Red and Green LEDs confirms that the unit is in the keypad programming mode.
3. Immediately enter the following key sequence on the 5827BDE to return **all** 5827BDEs to their normal (non-SignalSentry) mode and delete their serial numbers from the 5881EH.

[★] + [3] + [4-digit security code*] + [#].

* You must enter the code in reverse for this sequence; example: if code is 1-2-3-4, enter 4-3-2-1.

The 5827BDE will beep 3 times and the 3 LEDs will begin blinking once every 2 seconds. Allow them to blink several

times before exiting the keypad programming mode. If a single long beep is heard, the 5827BDE was either not in the SignalSentry mode, is not a 5827BDE, or the key sequence in step 3 was not the first function performed after entering the keypad programming mode.

4. Exit the keypad programming mode by keying [★] + [#].
If all 5827BDEs in the system have been successfully returned to their normal mode, the yellow SEND/RCV LED (only) on the wireless keypad will blink once. If not, the 5827BDEs were not returned to their normal mode, and you will need to repeat steps 2 through 4.
Note that when **all** 5827BDEs are returned to the normal (non-SignalSentry) mode, the 5881EH receiver will once again be able to communicate with all wireless devices, even if the 5881EH receiver is set to the high security mode..
5. Exit the Go/NoGo TEST mode (Code + OFF) on the control panel.

SignalSentry Operation – Summary of Procedures

- Enrolling a 5827BDE in the SignalSentry Mode
- Returning a 5827BDE to Normal (Non-SignalSentry) Operation
- Returning All 5827BDEs in the System To Their Normal (Non-SignalSentry) Mode

Enrolling a 5827BDE as a SignalSentry Device

1. Set 5881EH receiver to the high security mode (if all 5827BDE keypads in the system are to be enrolled in the SignalSentry mode), by setting DIP switch # 1 in the receiver to the ON position.
2. Place control panel in Go/NoGo Test mode.
3. Power up the 5827BDE.
4. Place 5827BDE in Keypad Programming mode.
5. Key: [★] + [6] + [4-digit master code] + [#].
The 5827BDE will beep 3 times and the 3 LEDs will begin blinking once every 2 seconds.
6. Walk through entire area where the 5827BDE is to be used.
7. Exit the Keypad Programming mode on the 5827BDE.
8. Observe that all 3 LEDs blink briefly. If the 5827BDE was successfully enrolled, the system status will also be displayed on the 5827BDE after a few seconds (ARM or READY LED will light). In some systems, the wired keypad will also emit 3 beeps.
If enrollment was unsuccessful, system status will **not** be displayed on 5827BDE.
9. Repeat steps 3 through 8 for all other 5827BDEs.
10. Exit the Go/No Go Test mode on control panel.

Returning a 5827BDE To Its Normal Operating Mode (Non-SignalSentry)

1. Place control panel in Go/NoGo Test mode.
2. Power up the 5827BDE.
3. Place 5827BDE in Keypad Programming mode.
4. Key: [★] + [7] + [4-digit master code] + [#].
The 5827BDE will beep 3 times and the 3 LEDs will begin blinking once every 2 seconds. Allow them to blink several times before going to the next step.
5. Exit the Keypad Programming mode on the 5827BDE.
If the 5827BDE was successfully returned to the normal (non-SignalSentry) mode, the yellow SEND/REC LED (only) on the 5827BDE will blink once.

6. Repeat steps 2 through 5 for each 5827BDE to be returned to normal operation.

Note: If there is more than one 5827BDE in the system and **all** are to be returned to their normal mode, follow the procedure in *Enrollment Reset*, starting at step 2. Otherwise, proceed to step 7.

7. Exit the Go/NoGo Test mode on the control panel.

Note that if the 5881EH is in the high security mode and at least one 5827BDE is in the SignalSentry mode, any 5827BDEs in the normal mode (and any other wireless keypads) will be unable to communicate with the system.

Enrollment Reset (All 5827BDE Keypads Returned To Normal Operation)

1. Place control panel in Go/No Go Test mode.
2. Power up a 5827BDE.
3. Place that 5827BDE in Keypad Programming mode.
4. Immediately key: [★] + [3] + [4-digit master code*] + [#].
* Enter code in reverse.
The 5827BDE will beep 3 times and the 3 LEDs will begin blinking once every 2 seconds. Allow them to blink several times before going to the next step.
5. Exit the Keypad Programming mode on the 5827BDE.
6. If all 5827BDEs in the system were successfully returned to their normal operating mode and deleted from the 5881EH, the yellow SEND/REC LED (only) on the 5827BDE will blink once.
7. Exit the Go/No Go Test mode on the control panel.

Note that if **all** 5827BDEs are in their normal (non-SignalSentry) mode, the 5881EH receiver will once again be able to communicate with all wireless keypads, even if the 5881EH receiver is set to the high security mode.

If you wish to re-enroll one or more 5827BDEs as a SignalSentry device, follow the procedure under *Enrolling a 5827BDE as a SignalSentry Device*.

5827BD/5827BDE SPECIFICATIONS

Physical: 2-3/8" W x 6-1/4" H x 1-1/4" D
(61mm x 159mm x 32mm)

Battery: 9-volt Alkaline. Ademco 464, Duracell MN1604, or Eveready 522 (If a low battery condition exists, it will be displayed on wired keypads as zone 00.)

LEDs: Red, Green, and Yellow, for system status indications.

Sounder: Piezoelectric, 4200 Hz, for confirmation, trouble and emergency beeps and sounding on alarm. In addition, upon lack of response from the control, a long (2 second) beep is heard.

5827BDE Only:

Can provide high security (encrypted) wireless transmissions when used in conjunction with the 5881EH RF receiver. This is made possible through the use of Ademco's new SignalSentry technology in the 5827BDE and 5881EH.

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

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