Wireless Alarm system’s manual

ADS-A180 Series

ADS Security
1/11/2011
1. Before You Begin

For your safety and the safety of others, and to ensure that you get the most out of the wireless alarm kit, please read and adhere to these guidelines.

- Make sure product is fixed correctly and stable if fastened in place.
- Do not operate if wires and terminals are exposed.
- Do not put the alarm main panel near large-scale metal objects or household appliances with high-frequency interference.
- Do not install the PIR sensors in direct sunlight or near any device which emits heat or cold, such as air conditioners, refrigerators, ovens, heaters, microwaves or other electronic equipment which generates heat as a by-product of operation.
- Replace the batteries in the units regularly. There are batteries in the remote controls, window/door sensors, wireless keypad, PIR motion sensors and smoke detectors.
- Test the alarm periodically to ensure it is working properly.
- The strength of the wireless signal is dramatically affected by the placement of the antenna. Extend the length of the antenna if you need better results.
- Keep this booklet in a safe place.
- This alarm system is designed to be, and acts as, a theft deterrent. This system, like any other, cannot offer complete protection for your home or business- it is simply an alarm system. Like all practical systems, it has limitations and it could be disabled by a skilled intruder. We suggest that you avoid relaying solely on the wireless alarm system to protect your property, but use it as part of a comprehensive security solution.

2. INTRODUCTION

Main features of ADS-A180 Alarm System

- Six phone numbers can receive CALL from alarm, 10 seconds voice message recording.
- Has 90 wireless zones and six wired zone. Each wireless zone can be equipped with up to 160 wireless accessories.
- Can be equipped with internal siren and external siren.
- Set Alarm / Arm delay easily and switch Away/ Home arm mode flexibly.
- Has keypad on panel and must input the password before operation.
- Control the alarm system remotely by using phone call no matter where you are as long as you can ring your alarm system.
- Compatible with ADEMCO CONTACT ID networking form. Inner back up battery for 24 hours.
- Easy and quick to be installed and operated.
**ADS-A180 main panel**

The main panel is the heart of the wireless alarm system. It is responsible for monitoring the various sensors throughout your home and or triggering the alarm signal when one of them reports a disturbance.

1. Power light
2. Away light (away mode)
3. Home light (home mode)
4. Digital number screen
5. Alarm light (alarming)
6. Set light
7. Cut light
8. Set button
9. Code button
10. Record button
11. Panic button
12. Away button
13. Home button
14. Disarm button

<table>
<thead>
<tr>
<th>Function</th>
<th>Signal</th>
<th>Interpretation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power LED</td>
<td>Not lit</td>
<td>The ON/OFF switch is OFF position</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Without electricity</td>
</tr>
<tr>
<td>Away LED</td>
<td>Always lit</td>
<td>Alarm system is on away mode</td>
</tr>
<tr>
<td>Home LED</td>
<td>Always lit</td>
<td>Alarm system is on home mode</td>
</tr>
<tr>
<td>Set LED</td>
<td>Always lit</td>
<td>Alarm system is on set mode</td>
</tr>
<tr>
<td>Cut LED</td>
<td>Always lit</td>
<td>The phone line is disconnected</td>
</tr>
<tr>
<td>Alarm LED</td>
<td>Always lit</td>
<td>Alarm is alerting</td>
</tr>
<tr>
<td></td>
<td>Blinking</td>
<td>Alerting delayed</td>
</tr>
<tr>
<td>number screen</td>
<td>Digital number</td>
<td>Show the defence zone number</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>button</th>
<th>Function</th>
<th>Interpretation/Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set</td>
<td>Set mode</td>
<td>Key in the password first. All programs or setting must under SET mode.</td>
</tr>
<tr>
<td>Code</td>
<td>Code mode</td>
<td>Key in the password first. Code the wireless accessories under code mode. Key in the zone numbers if you need code them in different zones.</td>
</tr>
<tr>
<td>Record</td>
<td>Record mode</td>
<td>Key in the password first. Record the 10 seconds voice message (key in number 1) or replay it (key in number 2).</td>
</tr>
<tr>
<td>Panic</td>
<td>Alarm mode</td>
<td>Trigger the alarm immediately whichever mode it is in.</td>
</tr>
</tbody>
</table>
### Window/door sensor

Door /windows sensors are extremely reliable, and will be triggered every time the door on which they are mounted is opened.

When the two parts of the sensor are extremely close to one another (ideally touching) the sensor is deactivated. As soon as the two parts are moved apart by about 10-15mm, this will cause the transmitter to send the alarm signal.

We suggest using the window/Door gap sensors as your primary alarm triggers. They are reliable and, if installed correctly, can safeguard doors and windows from being opened without your knowledge. However, these types of sensors can be circumvented if a window or fragile door were broken rather than opened. Thus, we suggest using the infrared sensors as a backup to the window/door sensors.

### PIR motion sensor

The Passive InfraRed (PIR) sensor will, under typical conditions, detect a human being moving around within approximately 10m from the sensor. This is an average value, as the actual detection range is between 5m and 12m.

As the performance of the sensor is determined primarily by environmental conditions. No guarantees can be offered regarding the detection range. However, the range is typically sufficient for the majority of interior spaces. Some
garages may be large enough that one sensor cannot cover that whole area – we suggest testing this in the actual environment if there’s any doubt.

The sensor has a horizontal 110° vertical 60° field of view. The main blind spots are above, below or behind the sensor itself.

Typically, the ideal placement in an environment is the upper corner of a room, facing slightly towards the ground (perhaps 20-25°, depending on the height of the sensor). Try to cover typical paths through the room, focusing particularly on likely entry and exit points. If the room has several entry points, try to cover as many of these as practicable.

A visible PIR motion sensor can be a great deterrent to intruders – but on the other hand, skilled intruders can avoid obviously visible sensors. Try to mix it up a bit.

**Remote Control**

The remote control is the electronic key. Treat it like any other key–keeping it on your keychain.

**Disarm:** Used to disarm the wireless alarm system, whichever mode it is in.

**Arm (away mode):** Arm away mode. (All detectors work)

**Arm (home mode):** Arm home mode. (Some detectors work and other not)

**Alarm (emergency):** Trigger the alarm immediately whichever mode it is in.

**Key guard:** A small sliding tab which can be placed to prevent accidental arming or disarming of your alarm system when being carried in a pocket or bag.
**Wireless keypad**

The wireless keypad is the electronic key as same as remote control. The keypad will be a better solution for large family or business user.

* / Away: Arm away mode. (All detectors work)

# / Home: Arm home mode. (Some detectors work and other not)

0/ Disarm: Used to disarm the wireless alarm system, whichever mode it is in.

Keypad is locked automatically for power saving. Please press the [*] key to unlock. To operate the keypad always enter password first. Fox example: use keypad to disarm the alarm system by password [0]. The password in here is for keypad itself only which is different as the main system’s password. You could set up both passwords the same or different. Change the password for the keypad by command: [*][2][*] new password[#], make sure put away the watch dog after changing password. Intruder who knows this command will operate the alarm system by keypad if you leave the watch dog with keypad.

This unit has two new unique designs:

**Battery / power supply:** use both or one of them. Give you more freedom.

**Watch dog:** keep it in a safe place after setting. No one can change the setting without this watch dog including the skilled intruder.

**Dual beam infrared barrier**

The dual beam infrared barrier will detect an objective when it blocks any neighbour two or more infrared lights over 40ms. It’s designed for outdoor environment, could be installed in driveway, carport, drive through shop, balcony and so on.

1. protective lid
2. Installation seat (360° rotation)
3. line seat
4. protection flake
5. Plastic window
6. aluminium alloy outer cover
3. INSTALLATION

Open the alarm kit and determine where each piece is to be located. The PIR sensors usually mounted high on a wall and directed into the room requiring protection such as a lounge room or hallway. The main panel is usually located somewhere within 1 meter of a power point. The sensors must not be located more than 80 metres from the main panel.

Installing the ADS-A180 main panel:

Connect the power supply, telephone line, internal siren, and antenna. Switch ON/OFF to ON position. Remember: test the whole system before you fasten them on the position.

Installing wireless PIR sensors: Installation height is about 2.2 meters above ground and you need consider the best coverage. (Ref: page3)

Installing wireless Door/Window sensor: The transmitter should be installed on the fixed frame and the trigger should be placed on the movable side with a gap not exceeding 1CM. The door/window sensors can attach most surfaces by double sided mounting tape.

Installing wireless keypad: Install the keypad at main entrance and must under cover. Keep the watch dog separately in a safe place. You need plug watch dog on when you change the password in the future.

Installing Dual beam infrared barrier: Connect the power cable as demonstration. “+”pole connect power adapter’s red cable, “−”pole connect power adapter’s black cable. Screw both parts onto the position where you prefer. And make sure the same level of two parts. Turning the barrier slightly to make sure two parts are facing each other.

4. PROGRAMMING ADS-A180

PASSWORD:

The default password is 1234. We strongly recommend choosing a new password as soon as possible. Command: 25 * new password # (must under set mode)

SET mode:

Key in password then presses the SET button. The most programming needs under SET mode. Press the SET button to return. System will return automatically if there is no operation in 30 seconds during SET mode condition.
CODE mode:

Key in password then presses the CODE button. You can code the wireless accessories under this CODE mode. Press the CODE button to return. System will return automatically if there is no operation in 30 seconds during CODE mode condition.

RECODE mode:

Key in password then presses the RECODE button. Press 1 for 10 seconds message record, press 2 to listen what you have recoded, press the RECODE button to return. System will return automatically if there is no operation in 30 seconds during RECODE mode condition. The alarm system doesn’t have inner microphone you will need telephone’s help.

Code/ Register the wireless Accessories:

Has two ways to code the wireless accessories. One way is under CODE mode. Another way is under SET mode.

1. Under SET mode: key in the command 21 * [ZONE number] #, start to trigger all wireless accessories to let main panel recognize them. You should hear one beep if coding successfully. Remember, you can key in command 21 * [ZONE number] # to change the ZONE number, and code the sensor to different ZONE. Most user use zone 01 for remote controllers and keypads. Zone number can be any two digital numbers between 01 and 90.

2. Under CODE mode: key in the zone number, start to trigger wireless accessories to let main panel recognize them. You should hear one beep if coding successfully. Remember, you can key in different number to change the ZONE number, and code the sensor to different ZONE. Most user use zone 01 for remote controllers and keypads. Zone number can be any two digital numbers between 01 and 90.

Make sure you turn off all sensors before you coding new wireless accessories. The PIR sensor will keep working 10 seconds after turn off the power.

Record voice message:

Connect the telephone to the main panel. The alarm system doesn’t have inner microphone you will need telephone’s help. You will hear the voice message first when the alarm system ring you up.

Has two ways to recode the message. One way is under RECORD mode. Another way is under SET mode.

1. Under SET mode: key in the command 23 * 1 # for 10 seconds voice message recording. Key in the command 23 * 2 # for listening what you have recorded.

2. Under CODE mode: key in 1 for 10 seconds voice message recording. Key in 2 for listening what you have recorded.
Set inner defence zone for home arm mode:

Choose one or few zone for special home arm function. Please code the wireless detectors and sensors into the special zone if those detectors and sensors will not work during home arm mode. The zone number can be any two digital numbers between 01 and 90. The command pattern is: 29 * [Zone NO] * 1 #

For example: there are 3 PIR sensors located in zone 11, zone 12 and zone 13. Sensor in Zone 12 will not work during home arm mode. We can use the command: 29 * 12 * 1 #

Set inner defence zone for delay alarm function:

Choose one or few zone for special alarm delay. Please code the wireless detectors and sensors into the delay zone if those detectors and sensors will set off the alarm after pre-set time. The zone number can be any two digital numbers between 01 and 90. The command pattern is: 29 * [Zone NO] * 3 #

To set delay how many seconds, the command is: 34 * [1-99 seconds] #

For example: there are 3 PIR sensors located in zone 11, zone 12 and zone 13. Sensor in Zone 13 will set off the alarm after 25 seconds. We need 2 commands: 29 * 13 * 3 # and 34 * 25 #

Reset the system:

Key in 0000#, all the phone numbers and coded information will be cancelled.

How to use the wired ports on the back of panel:

The ports +12v and alarm are for internal or external siren. This model alarm system can work with 3 horns or sirens including wired and wireless sirens.

The posts +12v and GND are for output.

COM is the public line.

The ports Line1, line2, line3, line4, line5, and line6 are for general wired detectors.

Programming command (must under SET mode):

General one command pattern is [command] *[parameter] #

Commands and parameters table:
<table>
<thead>
<tr>
<th>Command</th>
<th>Function</th>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Phone number 1</td>
<td></td>
<td>Phone number 1</td>
</tr>
<tr>
<td>12</td>
<td>Phone number 2</td>
<td></td>
<td>Phone number 2</td>
</tr>
<tr>
<td>13</td>
<td>Phone number 3</td>
<td></td>
<td>Phone number 3</td>
</tr>
<tr>
<td>14</td>
<td>Phone number 4</td>
<td></td>
<td>Phone number 4</td>
</tr>
<tr>
<td>15</td>
<td>Phone number 5</td>
<td></td>
<td>Phone number 5</td>
</tr>
<tr>
<td>16</td>
<td>Phone number 6</td>
<td></td>
<td>Phone number 6</td>
</tr>
<tr>
<td>17</td>
<td>Phone number 7</td>
<td></td>
<td>Monitoring centre’s phone number</td>
</tr>
<tr>
<td>21</td>
<td>Code the wireless accessories</td>
<td>01,02,03......90</td>
<td>90 zones Can have 160 wireless accessories in one zone.</td>
</tr>
<tr>
<td>22</td>
<td>Delete the coding information of one zone’s wireless accessories</td>
<td>01,02,03......90</td>
<td>Delete the certain number zone’s coding information</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0</td>
<td>Delete all zones</td>
</tr>
<tr>
<td>23</td>
<td>Record voice message (same function as RECORD button)</td>
<td>2</td>
<td>Replay the message</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>Record 10 seconds message (needs telephone)</td>
</tr>
<tr>
<td>25</td>
<td>Change the password</td>
<td>New password</td>
<td>(default password: 1234)</td>
</tr>
<tr>
<td>26</td>
<td>after how many rings the alarm system will pick up your call</td>
<td>01,02,03......12</td>
<td>Recommend you set 12 rings if you have answer machine.</td>
</tr>
<tr>
<td>27</td>
<td>How long will siren on when system alarming</td>
<td>0</td>
<td>Silent when alarm goes off.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,2,3......30</td>
<td>Sound 1 minute – 30 minutes.</td>
</tr>
<tr>
<td>28</td>
<td>Recycling times to dial up the phone numbers</td>
<td>1,2,3,4,5,6</td>
<td>Max is 6 times.</td>
</tr>
<tr>
<td>29</td>
<td>Special function for certain zone. command pattern is: 29 *[zone number] *[parameter] #</td>
<td>0</td>
<td>Closed zone. The detectors in this zone won’t work.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>Home zone. The detectors won’t work under Home mode.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td>Instant zone. The detectors work under both HOME mode and AWAY mode.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3</td>
<td>Delay zone. For setting the delay time to alarm.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td>Emergency zone. Such as zone for smoke detector.</td>
</tr>
<tr>
<td>31</td>
<td>Siren sound when pressing the key of remote controller</td>
<td>0</td>
<td>Close. Silent</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>Open. (default is ON)</td>
</tr>
<tr>
<td>33</td>
<td>Alarm will go off or not when the phone wire been cut.</td>
<td>0</td>
<td>Close. Will not alarm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>Open. Will alarm</td>
</tr>
</tbody>
</table>
5. Operate in long distance

- call in the ADS-A180 alarm system and hear one long beep (Hear recorded voice message first if alarm system call you).

- key in password and #, (one long beep for incorrect password, two short beeps for correct password. The system will hang up after receiving 3 times incorrect password).

- key in [command]

Operate in long distance commands table:

<table>
<thead>
<tr>
<th>Command</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Arm (one beep if successfully)</td>
</tr>
<tr>
<td>2</td>
<td>Disarm (one beep if successfully)</td>
</tr>
<tr>
<td>3</td>
<td>Siren sounds for 3 seconds</td>
</tr>
<tr>
<td>*</td>
<td>Listen in for 30 seconds. Key in * for continue.</td>
</tr>
<tr>
<td>#</td>
<td>return</td>
</tr>
</tbody>
</table>

6. TROUBLESHOOTING

<table>
<thead>
<tr>
<th>Problem</th>
<th>Probable Reasons</th>
<th>Available Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. alarm can’t dial</td>
<td>phone line connect incorrectly</td>
<td>Plug the phone line into INPUT slot.</td>
</tr>
<tr>
<td></td>
<td>Alerting phone number was set incorrectly</td>
<td>re-set the phone numbers</td>
</tr>
<tr>
<td>2. cannot long-distance operation</td>
<td>password input wrongly (or forgotten)</td>
<td>retry password or reset password</td>
</tr>
<tr>
<td>3. No voice message indication when alerting</td>
<td>voice message not recorded</td>
<td>record voice message</td>
</tr>
<tr>
<td>4. remote control (keypad) out of order</td>
<td>coding un-matched with the Panel</td>
<td>re-learn the remote control</td>
</tr>
<tr>
<td></td>
<td>insufficient battery power</td>
<td>change battery to correct type</td>
</tr>
<tr>
<td></td>
<td>low battery</td>
<td>change the battery</td>
</tr>
<tr>
<td>5. infrared detector out of order</td>
<td>low power</td>
<td>change to the same type battery</td>
</tr>
</tbody>
</table>

After sale support for ebay buyer    EMAIL: estore3150@gmail.com
### 7. Technical Parameters

**ADS-A180 Main Panel:**

- **Operating voltage:** DC12V
- **Average power:** AC/DC exchanger 2A.
- **Work currency:** less than 50 mA
- **Wireless receiving distance:** ≥ 100m
- **Operating Frequency:** 433.92 MHZ
- **Operating voltage:** DC12V, AC 220/110V
- **Wireless receiving distance:** ≥100m-250m

**Siren:**

- **Volume:** 110 dB
- **Working Condition:** Temperature −10 °C+ 40 °C
- **Humidity ≤ 90% rh**

**Wireless Door/Window Gap Detector:**

- **Power Supply:** DC12V (inner 12V battery)
- **Static Current:** ≤20 mA
- **Transmission Current:** ≤15mA
- **Transmission Frequency:** 433MHZ
- **Transmission Distance:** less 80M
- **Internal Distance:** 15 mm
- **Working Condition:** Temperature −10°C+ 40 °C
- **Humidity ≤ 90% rh**
**Wireless P.IR Detector:**

Power Supply: DC9V (inner 9V battery)
Static Current: ≤100 mA
Transmission Current: ≤20mA
Frequency: 433MHZ
Transmission Distance: less 80M
Detective Speed: 0.3 - 3m/s
Detective Distance: 5 – 12M
Detective Range: Horizontal 110° Vertical 60°
Working Condition: Temperature –10 ℃+ 40 ℃
Humidity ≤ 90 rh

**Remote Control:**

Power Supply: DC12V (inner DC12V battery)
Transmission Current: ≤15mA
Frequency: 433MHZ or 315MHZ
Transmission Distance: less 80M