

AUW1 Solar-Powered Wireless Siren

& Strobe Installation Instructions

GENERAL INFORMATION

The AUW1 comprises a Solar-powered Wireless Siren & Strobe & a transmitter unit which are compatible with any standard hard wired alarm system



HOUSING

The Siren, Strobe Light and Solar Panel are all encapsulated within a tough polycarbonate housing. This housing provides full protection against adverse weather conditions. All electronic components are specially treated to ensure long, reliable, trouble free operation and an integral tamper switch gives maximum security protection to the unit.

SOLAR PANEL

The Solar Panel mounted on the housing will maintain a charge to the rechargeable battery during daylight hours. During darkness, a negligible amount of energy is released by the rechargeable battery to operate the Siren & Strobe unit.

RECHARGEABLE BATTERY

A high capacity 6V 1.2Ah sealed lead acid rechargeable battery ensures that the Siren & Strobe is self maintainable during darkness and long winter periods.

INITIAL POWER-UP BATTERY

An Alkaline 9V PP3 battery is supplied in the Siren & Strobe unit to provide the initial power to the system.

SIREN CODE

An encrypted code is set using a combination of miniature switches. This enables you to select a unique security code for your installation.

TRANSMITTER MODULE

A small transmitter module is supplied for connection to

any standard alarm panel. The module can be installed within any non-metallic panel, either complete, or if space is at a premium, as a PCB only using the special PCB mounting. Alternatively, where the control panel is of metal construction the transmitter module MUST be installed outside the panel.

WIRELESS SIREN & STROBE

LOCATION

The Siren & Strobe unit should be fitted to the outside of the building in a position that is clearly visible and at a height which is relatively inaccessible to an intruder.

To provide the optimum amount of sunlight to the Solar Panel, you should ideally mount the Siren & Strobe on a south facing wall. However, an easterly or westerly position will suffice.

Although the Siren & Strobe is designed to work on any aspect wall, you should refrain from siting the unit on a north facing wall where possible.

Shadows cast by neighbouring walls, trees and roof overhangs should also be avoided. In practice, the Siren & Strobe should be positioned a minimum of twice the width of the eaves overhang, below the eaves. Remember that in winter the sun is lower in the sky and you should avoid winter shadows where possible.



The Siren & Strobe contains a sophisticated radio receiver. However, reception of radio signals can be affected by the presence of metallic objects within the vicinity of the Siren & Strobe. It is therefore important to mount the Siren & Strobe a minimum distance of 1 metre radius away from any external or internal metalwork, ie external drainpipes, gutters and internal radiators, mirrors etc.

INSTALLATION

Remove the holding screw from the base of the housing and carefully hinge off the front cover. All electronic components are housed within the front cover. Use the rear back-plate as a template to mark the position of the four fixing holes on the external wall. Drill four holes and insert the plastic wall plugs. Mount the back-plate using the four screws provided.

SETTINGS

Undo the 3 screws holding the dip switch cover in place and remove the cover.



SIREN CODE

Under the cover you will find a series miniature dip switches.



(Always change from the factory setting)

When the Siren & Strobe is viewed as shown above (solar panel at top) the dip switches are 'upside down'.

Using a ball point pen set the miniature dip switches 1-8 to a random sequence of ON's and OFF's.

Make a note of the Siren Code dip switch settings as this will be needed when setting the Transmitter module.

NOTE:

ALARM DURATION

This is the maximum length of time that the Siren & Strobe alarm will sound for, following an intrusion. Alarm duration can be set for either 3 or 15 minutes. Set dip switch 9 'OFF' for 3 minutes or 'ON' for 15 minutes.

Remove the siren jumper link P3 will disable the siren sound, but the strobe lamp will be still flashing for either 3 minutes or 15 minutes when triggered.

Put the siren jumper link P3 in position will enable the siren sound. Both siren and strobe lamp will be operational simultaneously for the preset alarm duration when triggered.

NOTE:

Following activation into alarm condition the Siren & Strobe will continue to sound until either the Control Panel is reset, or the Control Panel cut off time expires, or until the Siren & Strobe alarm duration time expires; whichever occurs first.

Refit the dip switch cover securely.

INITIAL POWER-UP

Once you have completed setting your Siren Code and alarm duration time, connect the 9V PP3 initial power-up battery to the clip-on connectors. Connect the rechargeable battery to the charging leads red to red(+) and black to black (-). Fit the siren and strobe cover to the back plate and secure using the holding screw. The strobe lamp will flash to confirm that the tamper switch has been closed. Remove the solar panel protection film. The installation of your Siren & Strobe is now complete.

NOTE:

Once the batteries have been connected, the unit will be operational and it is important that the solar panel receives sufficient light to maintain the battery charge. Also, the unit should not be repeatedly set into alarm as this could rapidly drain the battery.

TRANSMITTER MODULE

The transmitter module supplied is compatible with all standard control panels.

INSTALLATION

The transmitter should be installed within or close to the alarm control panel. Alternatively, where space within the control panel is limited, the PCB can be carefully removed from its casing and mounted within the control panel using the PCB mounting bracket supplied.

IMPORTANT

Do not install the transmitter inside a metal cased enclosure or within 1 metre of a metallic surface as this will impair the transmitter's radio range



Undo the terminal cover screw and remove the terminal cover on the transmitter. REMOVE ALL POWER (MAINS AND BATTERY) FROM THE CONTROL PANEL. Lead the cable (option) to the control panel terminals and connect as follows:

Yellow	5~15V DC permanent supply
Black	OV DC ground
Red	Alarm trigger, Max. 12V
	Active high 4~15V or active low 0~0.3V
	Set switches 9 + 10 to suit control panel
	trigger level (Force 10 is active low
	negative trigger)
Green	Negative tamper return

SETTINGS

Set the miniature dip switches 1-8 to the same sequence of ON's & OFF's as set in the Siren & Strobe. (The "Siren Code")

Set both dip switches 9 & 10 to suit the trigger level:

DIP SWITCHES 9 & 10 OFF: ACTIVE LOW (negative trigger) DIP SWITCHES 9 & 10 ON: ACTIVE HIGH (positive trigger)

Refit the terminal cover and screw, and power-up the control panel.

Upon initial power-up the 'Transmit' LED should illuminate twice for approx. 4 seconds.

OPERATION

To test the operation of the transmitter and siren and strobe proceed as follows:

- 1. Set the Control Panel into alarm so that a full alarm condition occurs.
- The "TRANSMIT" LED on the transmitter module should illuminate twice for approx. 4 seconds and the siren and strobe should operate. Allow the Control Panel to sound for at least 5 seconds.
- 3. Cancel the alarm at the control panel. The "TRANSMIT" LED on the transmitter module should illuminate twice for approx. 4 seconds and the siren and strobe should cease to operate. If the siren and strobe continues to operate, set the panel into an ALARM CONDITION, wait 5 seconds, and then cancel the alarm to make the transmitter module transmit the "Stop" signal again.

MAINTENANCE

Your Siren & Strobe requires very little maintenance. However, a few simple tasks will ensure its continued reliability and operation.

- At least once a year, preferably in the Autumn, the solar panel on the top of the siren housing should be cleaned using a soft, damp cloth. This operation will ensure that the solar panel receives all the available light. The cleaning operation can be combined with the general cleaning of the outside of the house, windows etc to reduce maintenance time.
- The Siren & Strobe incorporates tamper protection for system security. Should you, for any reason, have to completely power down the Siren & Strobe (eg to move the system to a new premises), remove the holding screw at the base of the siren and hinge off the front cover.

WARNING - THE SIREN WILL SOUND.

Disconnect the siren rechargeable battery and initial power-up battery and ensure that the solar panel is covered with a light proof material to prevent it from being energized.

3. The Siren & Strobe should not be left for long periods with the batteries connected, unless the unit is able to receive sufficient light to maintain the battery charging circuit. Failure to maintain charge to the unit will result in the rechargeable battery running unacceptably low. Should this occur, the unit must be recharged from a mains adaptor. When re-powering the Siren & Strobe fit a new 9V PP3 leak proof alkaline initial power-up battery to ensure that the system receives sufficient power until the solar panel can recharge the main battery completely.

If the battery level drops below acceptable levels then the siren will sound and strobe lamp will flash slowly as a low battery indication.

4. The main rechargeable battery has a typical life of 4 years and needs no maintenance during this period, providing the battery is kept charged. The battery will be damaged if it is stored in a discharged state.

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