

1 Introduction

Welcome to the AS210 mobile alarm system.

Using the latest microprocessor technology the AS210 provides all year round protection for your mobile home.

To ensure your alarm system is operated correctly, please read all sections of these instructions before attempting to operate the alarm system. If you are unsure of any content, please contact your supplier in the first instance or the manufacture direct (see section 6).

2 Operation

2.1 Arm / Disarm

The AS210 Alarm System is supplied with two key ring style radio controllers, which are used to control the alarm system. The system can be operated in different modes as follows;

Standard Mode - Arm / Disarm

To fully arm the system with internal movement sensor and tilt sensor active, first exit the vehicle, then press and hold the key fob button until you hear a single long beep, then release the button.

Arm = BeeeeeeeP

To disarm the alarm system press and hold the key fob button until you hear two short beeps, then release the button.

Disarm = BeeP BeeP

Special Mode - Arm / Disarm

(A) To arm the system with only the tilt sensor active, first exit the vehicle, then press and hold the key fob button until you hear a single long beep, continue holding the button until you hear a further single long beep, then release the button.

Arm = BeeeeeeeP BeeeeeeeP

(B) To arm the system with only the internal movement sensor active, first exit the vehicle, then press and hold the key fob button until you hear a single long beep, continue holding the button until you hear a further two long beeps, then release the button.

Arm = BeeeeeeeP BeeeeeeeP BeeeeeeeP

To disarm the alarm system press and hold the key fob button until you hear two short beeps, then release the button.

Disarm = BeeP BeeP

Remember that you must allow at least 60 seconds between arm and disarm otherwise the alarm system may think you are selecting a special arm mode.

2.2 Alarm Siren

When the alarm is triggered the siren will sound for 1 minute. Following the 1-minute period the alarm will then deactivate for 15 seconds and then rearm.

The alarm siren can be turned off at any point by pressing the key fob button (see 2.1).

2.3 PIR internal Movement Sensor

The AS210 alarm system comes complete with a 120° Passive Infra Red (PIR) internal movement sensor that detects body movement within the vehicle.

If you are leaving pets within the vehicle the system should be armed in special mode (A) to prevent your pet from triggering the alarm.

Please be aware that direct sunlight onto the PIR lens, or extremes of temperature (above 30 deg C) may affect the operation of the detector. Always ensure roof light blinds are closed if sunlight could shine directly onto the PIR.

2.4 Tilt Sensor

The AS210 alarm system has an inbuilt tilt sensor that detects tilting of the vehicle during the hitching process. If the tilt sensor is not set correctly (i.e. pushed to front or back) and the alarm is armed, the siren will be triggered after a 5 second delay. To cancel the siren, press the key fob button (see 2.1) and then readjust the tilt sensor as follows;

During normal (on the flat) operation the tilt sensor adjustment lever should be left in the centre position (notched position).

If the vehicle is parked on a steep slope it may be necessary to adjust the tilt sensor. Firstly arm, and then disarm the alarm to activate the internal LED tilt indicator light. While viewing the slot adjacent to the adjustment lever, move the lever forward until the light in the slot illuminates / flashes. Note the position of the lever.

Secondly, move the lever backwards, and again note the position of the lever when the light in the slot illuminates / flashes. Now set the lever mid way between the two positions.

Remember to return the lever to the centre 'notched' position when returning to 'on the flat' use.

Although not recommended in all cases as nuisance triggering can occur, the sensitivity of the tilt sensor can be increased by moving the tilt lever towards the rear of the vehicle. Move the lever slowly backwards until the tilt indicator light illuminates, then move the lever forward about 2mm.

Note: when the alarm system is disarmed the tilt lever is disabled after 1 minute of operation to conserve battery life (just in case the lever is left in the ON position). To reactivate the lever, Arm then Disarm the system.

3 Key Fob Controllers

The AS210 alarm system comes complete with 2 key fob remote controllers. If additional controllers are required these can be ordered from your supplier.

3.1 Key Fob Battery Replacement

- 1) Remove the key fob from your key ring.
- 2) Remove the single casing 'pozi-drive' screw.
- 3) Remove one half of the casing and remove the old battery.
- 4) Install the new battery (23A 12 volt Alkaline) ensuring the positive [+] terminal is located towards the [+] mark on the key fob circuit board. The coiled spring connection in the key fob is the battery negative [-] terminal.
- 5) Relocate the two casing half's and install the casing screw.
- 6) Refit the key fob to your key ring.
- 7) Remember to dispose of old batteries in accordance with local regulations.

4 Battery

The AS210 alarm system incorporates a 3.3Ah sealed lead acid battery that is charged from the vehicles 12v supply. This battery has been selected to run the alarm in 'armed mode' without any external supply voltage for up to 6 months depending on ambient temperature / initial charge.

The battery is fully charged when the alarm system is despatched, but may need further charging if the vehicle is stood for a number of months without any 12v supply to the alarm. It is recommended that alarm system is permanently connected to a 12v supply.

To charge the alarm battery either fit a fully charged leisure battery to the vehicle or connect the vehicle to the mains supply and switch on the 12v charger / power supply. It may take up to 7 days to fully charge the battery.

The internal battery should be replaced approximately every 3 years to ensure correct operation. Replacement batteries can be ordered from your supplier. Always dispose of old batteries in accordance with local regulations.

5 Specification

5.1 Control Box

Supply voltage: 10.5 to 15v DC

Supply current: 250mA max 20mA typical

Operating temperature: -5 to +30 deg Celsius

Battery capacity: 3.3Ah at 12v

Operating time (armed) with no external supply: 6 months at 20° Celsius

Siren output: 110 dB +/- 10% @ 1M

Interface connector: Negative trigger in, Negative trigger out, System negative

5.2 PIR Movement Sensor

Range: 120° x 6M

Current Consumption armed: <1mA typical

5.3 Key Fob Controller

Range: 6M typical

Battery: 23A 12-volt cell

Typical battery life: >1 year

6 Spare Parts / Service

For Interface harnesses, installation documentation, spare parts, local supplier contact details or other service information please contact:

Sargent Electrical Services Ltd. service desk on 01482 678981 during normal office hours.

Further technical information is available at WWW.Sargentltd.co.uk



- Remote Controlled
- PIR Movement Detector
- Battery Backup (up to 6 months)
- Adjustable Tilt Sensor
- Loud 110dB Siren with Timer
- Interface Connector
- Auto Reset
- Easy Fit Design