

**SCORPION** AUTOMOTIVE

# S-SERIES

## **S32 Security System**

(OE Remote Controlled Models)

## **Operating Instructions**

[www.scorpionauto.com](http://www.scorpionauto.com)

CE UK UK  
NI CA

## **This Manual**

Please take time to familiarise yourself with the contents of this manual. Failure to do so could, in certain circumstances, prevent the vehicle's engine from being started.

Throughout this manual you will see references to features and timing settings, these are the standard settings and may be different to those selected on your vehicle. Please ask the installing dealer for the "Installation System Requirements" sheet that you completed with the installing dealer prior to installation, to see where customisation of the security system, from its standard format may have taken place.

### **IMPORTANT NOTICE**

This instruction manual includes references to the multi-function keypad. This keypad is included with S30 security systems but is a cost option on other S Series security systems and therefore features associated with the keypad will not be available unless one is installed.

Some features described in this manual may require additional parts and/or labour charges when installed to certain vehicle makes and/or models.

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The warranty terms and conditions for the product and the installing dealer's labour must be supplied to you separately. As the product is supplied by Sigma in a form where it will not function without first being fitted to a vehicle, Sigma are not liable for any labour charges, consequential losses or damage.

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# **1. Introduction**

## **About the Security System**

The Scorpion Automotive S-Series security systems build on the features of previous Sigma models and offer the highest level of security, convenience and flexibility. Operated correctly, this Sigma security system will protect your vehicle against today's sophisticated thief, however this security system is designed as a deterrent against the theft of, or from a vehicle, and as such cannot offer any guarantee against such occurrences. Always follow the advice of the Police, lock your vehicle at all times, park in a well-lit area whenever possible and never leave valuable items in a vehicle where they can be seen. Due to the advances in vehicle security, more vehicles are being stolen using the owner's keys or in car-jacking situations. S32 models have an optional Internal Panic Button facility, offer Safety Locking and a Key Theft Protection feature (optional Keypad required) to prevent carjacking and the theft of a vehicle even with the keys, however, always ensure your keys are not left unattended or in a vulnerable place. Your local Police Crime Prevention Officer will be pleased to advise you about general vehicle security precautions.

The Sigma S32 vehicle security system complies with the Thatcham MIRRC criteria. The Thatcham MIRRC organisation was set up on behalf of the ABI (Association of British Insurers) to establish design and manufacturing quality standards for vehicle security systems. Security systems complying with the Thatcham MIRRC criteria are rigorously tested for quality, functionality, electro-magnetic interference resilience and their ability to resist physical and electronic attack from a vehicle thief.

## **The S32 system complies with the following criteria:**

- **European Vehicle Security Directives 95/56 EC (EMC), 74/61 EEC (Security) and ECE Regulation 97**
- **Thatcham Category 2 to 1 approved alarm upgrade system -**
- S32 (Category 2 to 1 upgrade alarm) only
- Category 2 to 1 evaluation number for passenger cars: TSC109
- Category 2 to L1 evaluation number for light commercial vehicles: TSC109
- Supply 12VDC, 20mA

## **NOTE:**

The S32 system will only upgrade vehicles to Category 1 or L1 status that already have an existing Thatcham Category 2 or L2 approved immobiliser system fitted and that have Thatcham approved vehicle remote controls. Please check with your installing dealer for more information.

## **Parts included in your Sigma Vehicle Security System**

- **Certificate of Installation.** When completed correctly by your installing dealer this certificate may entitle you to a discount on your vehicle insurance premium (applies to most major insurance companies).
- **Electronic Control Unit.** The security system's ECU is concealed within the vehicle and connected to the various points, forming the "brain" of the whole system.
- **Immobilisation.** A single immobilisation circuit is also available on the S32 security system, which only becomes self-arming if the Key Theft Protection feature is turned on.
- **Perimeter Protection.** Provided by independent boot/bonnet and door circuits. The door circuits also being configurable for positive or negative inputs.
- **Siren.** The compact, high power siren unit has an independent self-contained power supply and is connected to the security system's control unit by a secure data-link.
- **Tri-colour LED.** The dashboard mounted LED (light emitting diode) is the security system's status light and also acts as a visual deterrent.
- **Ultrasonic Sensors.** Intelligent, self-adjusting, ultrasonic sensors provide interior protection and are mounted inside the passenger compartment.
- **Unique PIN Code.** Two self-adhesive labels show the unique PIN code and serial number for your security system. These should be kept in a safe place.

## **Optional Items**

- **Accessories.** Pagers, Internal Sirens, LEDs etc. can be activated from the unit's accessory outputs (max. current 200mA).
- **Additional Sensors.** Glass Break, Tilt, Dual/Single Stage Shock and Dual/Single Zone Microwave Sensors can be plugged directly into the sockets on the rear of the unit to work alongside the security system's Ultrasonic Sensors that provide interior protection. A pre-warn facility is built into the security system for Dual Stage Sensors.
- **Internal Panic Switch.** A dash mounted switch that will instantly trigger the siren and flash the indicators in the event of personal attack.
- **Multifunction Keypad.** The dashboard mounted Keypad can be used as an emergency override to arm/disarm the security system (refer to page 17), to change the way the system operates (page 20) and is required to operate the system's Key Theft Protection feature (page 10 & 13).
- **Touch Key Override.** A dashboard mounted Receptacle and two Touch Keys provide a heavy-duty emergency override to arm/disarm the security system.

## **Programmable Features**

**The security system is microprocessor controlled and this enables you to benefit from several enhanced user-friendly convenience and security features. If you wish to have any of these enabled, consult your dealer. These include:**

- **Auto-Arm** can automatically arm the security system a timed period after the last door is closed if the system is accidentally left disarmed. This feature can also include locking if required.
- **Auto-Rearm** can automatically re-arm the security system (and re-lock the doors) if a door is not opened in a timed period following the system having been disarmed.
- **Closed Loop Protection** Built in accessory protection circuit.
- **Door Open, Closed Loop & Auto-Arm Warning Bleeps** will alert you, with a series of bleeps when first armed, that a door, boot or the bonnet is open, the Closed Loop Protection circuit is broken or Auto-Arm is selected.
- **Headlamp Illumination** provides an output to illuminate the vehicle's headlamps on arming (and disarming if required) to illuminate your way from the vehicle.
- **Interior Lamp Illumination** provides an output to illuminate the vehicle's interior lamp on disarming the system.
- **Key Theft Protection** with this feature selected, even if the vehicle's remote control is used to disarm the alarm system the vehicle can only be started after entering the correct 4-digit PIN into the Keypad.
- **Safety Lock/Unlock** can automatically lock the doors and boot when the ignition is turned on, unlocking them again when the ignition is turned off.

## 2. Basic Operation of the Security System

### Arming the Security System

- Vacate the vehicle closing all windows, doors, boot and bonnet.
- Press the vehicle's remote control, to lock the vehicle in the normal manner. the doors should lock.
- The security system will acknowledge arming by illuminating the vehicle's hazard warning lights for a **3 second** period (if the hazard lights flash 2, 3, 4, 5 or 6 times at this point this indicates that certain sensors have been deleted - see page 8).

The security system will then enter a "pre-set state", which comprises of the Settle Time and Ultrasonic Threshold Time. This period is used by the security system's microprocessor to monitor the vehicle's internal environment and adjust the sensitivity of the ultrasonic sensors if necessary.

If a door, boot or bonnet has been inadvertently left open or the optional Closed Loop Protection Circuit is broken the siren will continuously bleep, (if the Door Open, Closed Loop & Auto-Arm Warning Bleep feature is selected), for 15 seconds as a warning to close everything securely. If this happens, disarm the security system (see below), close all doors etc. securely, and re-arm. Failure to do this within 15 seconds will result in a full alarm trigger.

### Disarming the Security System

- Press the vehicle's Remote Control, to unlock the vehicle in the normal manner. The doors should unlock.
- The security system will acknowledge disarming by illuminating the vehicle's hazard warning lights for a **1 second** period.

- If the alarm has been triggered during the armed period, then the siren will emit 3 Trigger Warning Bleeps.

## **Ultrasonic Interior Protection**

The S-Series range of alarm systems are all supplied with sophisticated microprocessor controlled Ultrasonic Sensors as the primary interior protection system. Unlike conventional ultrasonic detectors this system ensures that an actual entry has occurred rather than just air movement, air pressure fluctuation, seat belt movement, etc.

### **Whenever the system is armed:**

- Initially the dashboard LED displays a rapid green flash for the first 15 seconds. This is the Settle Time, during which the Ultrasonic Sensors are inactive. This allows the air movement inside the vehicle to stabilise.
- The dashboard LED then displays a long bright amber flash for the next 15 seconds. During this Ultrasonic Threshold Time, the Ultrasonic Sensors are now active. The alarm system's microprocessor monitors the interior of the vehicle, and if any "background" movement is detected that would otherwise cause a false alarm, the sensitivity is reduced from that programmed by the installer. The amber LED will illuminate for a second, to indicate the detection of any "background" movement.
- After the first 32 seconds a short bright red flash from the dashboard LED every second indicates that the system is now fully armed and the Ultrasonic Sensors are set to their pre-programmed maximum or their automatically reduced level if some "background" movement was detected during the Threshold Time.

The detection system also employs a movement/time method where a certain amount of movement in a given time is also required to cause a trigger. This method of detection offers a high level of protection against false alarms commonly associated with other systems employing inferior methods of detection.

## **Arming the Security System with Sensors Deleted**

It may sometimes be necessary to arm the security system with certain sensors deleted - such as the Ultrasonics Sensors if you wish to leave people or animals inside the secured vehicle, although sensible safety precautions should be exercised if considering this action!

The Ultrasonic Sensors, and any other optional sensors that may have been added to the Dual or Single Stage Accessory Sensor Sockets, can be deleted in a number of combinations. This can be done in three ways:

### **1. Using the door/dash CDL switch and ignition, before exiting the vehicle:**

- With the vehicle's ignition turned on, lock & then unlock the doors using the door/dash mounted CDL switch the necessary number of times to select the sensor combination required, shown in the table on the following page.
- Turn off the vehicle's ignition.
- Press the vehicle's Remote Control, to lock the vehicle in the normal manner. The doors should lock.
- The security system will acknowledge arming with the necessary sensor combination by flashing the vehicle's hazard warning lights the corresponding number of times, instead of the normal 3 second illumination.



## 2. Using the vehicle's Remote Control, from outside the vehicle after arming the system:

- Vacate the vehicle closing all doors, boot and bonnet.
- Press the vehicle's Remote Control, to lock the vehicle in the normal manner. The doors should lock.
- The security system will acknowledge arming by illuminating the vehicle's hazard warning lights for 3 seconds.
- Immediately press the vehicle's Remote Control, to unlock and disarm the system and then again to lock and arm the system a 2nd time.
- The security system will acknowledge arming by flashing the vehicle's hazard warning lights twice, instead of the normal 3 second illumination.
- Repeat this immediate unlock and lock cycle to arm the system the system a 3rd, 4th, 5th time etc the necessary number of times to select the sensor combination required, shown in the table below.
- Each time the security system is armed it will acknowledge the necessary sensor combination by flashing the vehicle's hazard warning lights the corresponding number of times, instead of the normal 3 second illumination.
- The siren will emit an Indication Tone corresponding to the hazard warning light illumination on each occasion, only if this feature has been turned on.

Sensor	Number of Presses of Radio Key Button				
	2	3	4	5	6
Ultrasonic Interior Protection	Off	On	On	Off	Off
Dual Stage Accessory Pre-warn	On	Off	On	On	Off
Dual Stage Accessory Trigger	On	On	Off	Off	Off
Single Stage Accessory Trigger	On	On	Off	Off	Off

## 3. Using the keypad (optional on S32 models), before exiting the vehicle:

- See page 20 for details.

In all cases the deleted sensors will be restored the next time you arm the security system in the normal way.

## **Starting the Vehicle – S32 Models with Key Theft Protection**

With the Key Theft Protection feature selected, only the alarm system is armed and disarmed by the vehicle's Remote Control (or Touch Keys, Keypad or Ignition PIN). The immobilisation circuit acts independently of the alarm, setting automatically a pre-set time (the Stall & Start Time; usually 30 seconds) after the ignition is switched off and can only be unset after disarming the alarm, by entering the security system's unique PIN into the Keypad (or ignition in extreme cases). This feature prevents theft of a vehicle even with the owner's keys. The Keypad only allows three attempts to enter the correct PIN code. If a third incorrect PIN code is entered, the security system will ignore all further PIN code entries for 3 minutes. This is a security feature.

### **Disarming the system and starting the vehicle:**

Whilst the security system is fully armed the dashboard mounted LED will display a short bright red flash every second.

- Disarm the alarm system in the normal way (or Touch Key, Keypad or Ignition PIN).
- The dashboard mounted LED will be switched to a solid red state for a pre-set time (the Stall & Start Time; usually 30 seconds) after disarming, as a warning that Key Theft Protection is active and the vehicle is still immobilised. When this period elapses the LED returns to the usual immobilisation indication of a short bright red flash every 3 seconds. (Turning the ignition on will cause the LED to extinguish, but the vehicle will remain immobilised).
- To start the vehicle (whilst the LED is now flashing, in the previous solid state or even with the ignition on) simply enter the security system's unique PIN into the Keypad.
- If the correct PIN is entered the LED will extinguish, indicating that the vehicle can now be started (If the ignition is on when the correct PIN is entered, then the LED will already be off, so there will be no confirmation).

If the ignition is not turned on within 30 seconds of entering the correct PIN, or turning the engine off, the immobiliser re-sets, this is indicated by a short bright red flash from the dashboard LED every 3 seconds.

### **Starting an immobilised vehicle:**

- To start the vehicle (whilst the LED is flashing or even with the ignition on) simply enter the security system's unique PIN into the Keypad.
- If the correct PIN is entered the LED will extinguish, indicating that the vehicle can now be started (If the ignition is on when the correct PIN is entered, then the LED will already be off, so there will be no confirmation).

## **IMPORTANT NOTICE**

Immobilisation only is indicated by a short bright red flash from the dashboard LED every 3 seconds. This will only occur if the Key Theft Protection feature is selected. Although the vehicle is immobilised, the alarm system is not armed in this instance and the interior, doors, boot and bonnet circuits are not protected until the vehicle's Remote Control is pressed to arm the security system. Only when the dashboard mounted LED displays a short bright red flash every second is the security system fully armed.

### **If the Security System is Triggered**

If the security system is triggered, the hazard lights will flash and the siren will sound at full power for approximately 30 seconds, after which the hazard lights and siren will stop and the security system will immediately re-arm ready for any further attack. The security system has an anti-nuisance feature, known as the Shut Down Count which allows each protected circuit to only trigger 10 times (the Shut Down Count) in any armed period, after which the circuit causing the continual trigger will shut down, leaving all other circuits protected.

### **Disarming the security system whilst the siren is still sounding:**

Press the vehicle's Remote Control in the normal manner to disarm the security system. The doors should unlock and the security system should disarm.

### **Disarming the security system after a trigger has occurred:**

Press the vehicle's Remote Control in the normal manner to disarm the security system. The doors should unlock and the security system will disarm. The security system will acknowledge disarming by illuminating the vehicle's hazard warning lights for a 1 second period and 3 Trigger Warning Bleeps will be heard to indicate that a trigger has occurred during the last armed period.

### **Trigger Identification:**

Should the alarm have been triggered in the last armed period, then the dashboard LED will flash to confirm the circuit triggered, when the ignition is turned on. The number of flashes corresponds with the circuits in the table below. The ignition can be turned off and back on to display the circuit as many times as necessary, however arming the security system again will re-set the memory.

<b>Triggered Circuit</b>	<b>LED Flashes</b>
Closed Loop Detection	2
Dual/Single Stage Sensor	4
Panic Mode Activation	6
Ignition Detection	8
Door Negative	10
Door Positive	12
Boot/Bonnet	14
Ultrasonic Sensors	16

**NB** The table above shows all the possible circuits that can be detected, some require optional sensors and others may not be configured for your vehicle. Please consult your installing dealer.

## **3. Operation of Programmable Features**

(if selected and/or installed by your dealer)

### **Auto-Arm**

Auto-Arm automatically arms the security system if the vehicle is accidentally left unarmed. The security system will automatically arm a pre-set time (the Auto-Arm Time; usually 60 seconds) after the ignition has been switched off, the vehicle vacated, and the last door, boot or bonnet has been closed. If a door, boot or bonnet remains open, or is opened during the Auto-Arm Time, the security system will not arm until that door, boot or bonnet is closed. As a warning that Auto-Arm is going to automatically arm the system, the siren will sound 2 warning bleeps when you open the door to exit the vehicle.

**Note:** If the “Door Open, Closed Loop and Auto Arm Warning Bleeps” have been programmed to “off” there will be no warning bleeps to advise you that this feature is active.

### **Auto-Arm with Door Locking**

This option operates in the same way as Auto-Arm; however the vehicle’s doors will also automatically lock at the same time the security system Auto-Arms, if this facility is included with your security system.

**Note:** Be sure to remove your car keys when leaving the vehicle if you have chosen the Auto-Arm with Door Locking option, otherwise they may be locked in the vehicle!

### **Auto-Rearm**

Auto-Rearm automatically re-arms the security system if it is accidentally disarmed. The security system will automatically re-arm and lock (if this facility has been included with your security system) a pre-set time (the Auto-Rearm Time; usually 60 seconds), from the system being disarmed by the vehicle’s Remote Control, provided that no door, bonnet or boot has been opened during the Auto-Rearm Time. Any sensors deleted for the previous armed period will remain deleted if the system Auto-Rearms. This feature prevents the vehicle being vulnerable if the vehicle’s Remote Control is pressed by mistake – perhaps from inside your house while your car is parked close by in the driveway or street, or if children press the vehicle’s Remote Control in play! This feature provides extra security with no inconvenience.

### **Door Open, Closed Loop & Auto-Arm Warning Bleeps**

The security system emits “warning bleeps” which can be turned off by your dealer if required. The “warning bleeps” take the form of 2 bleeps whenever a door, boot or bonnet is opened only if Auto-Arm is selected and as a series of repeated bleeps for 15 seconds after the security system is armed as a warning that either:

- a) A door, boot or bonnet is still open or ajar.
- b) The optional Closed Loop Protection circuit is broken.

When the security system is armed and the repeated bleep is heard, if the security system is not disarmed, the open door, bonnet or boot not closed or the Closed Loop Protection circuit not completed within 15 seconds, the security system will trigger.

The trigger will continue for ten 30 second cycles, after this the circuit causing the trigger will be ignored by the security system (to conform with noise abatement laws) and is no longer protected.

**Note:** One door left open in this way may affect the protection on all other doors, depending on the make and model of vehicle. With the “Door Open Warning Bleeps” programmed to “off” this facility will function in the same way but without the audible warning.

### **Headlamp Illumination\***

Whenever the security system is armed the vehicle’s headlamps will illuminate for a preset time (the Headlamp Illumination Time; usually 30 seconds), to illuminate your way from the vehicle. If required, the headlamps can also illuminate for the same period when disarming; in this instance switching the vehicle’s ignition on will also extinguish the headlamps.

### **Interior Lamp Illumination\***

Whenever the security system is disarmed the vehicle’s interior lamp will illuminate for a pre-set time (the Auto-Rearm Time; usually 60 seconds), or until the vehicle’s ignition is switched on.

### **Key Theft Protection\***

With this feature selected, disarming the security system with the vehicle’s Remote Control (or Touch Key, Keypad or Ignition PIN) no-longer automatically deactivates the immobiliser. Before the vehicle can be started the security systems unique PIN must be entered into the Keypad once the alarm is disarmed. This prevents theft of a vehicle even with the owner’s keys.

If this feature is selected on S32 models, the single immobilisation circuit becomes self arming a pre-set time (the Stall & Start Time; usually 30 seconds) after the ignition is turned off. This provides additional security, so that if a vehicle were to be stolen in a carjacking situation (whilst the engine was still running), then 30 seconds (dependent on programming) after the ignition is next turned off, the vehicle will not re-start without entering the security systems unique PIN. Refer to Starting the Vehicle - S32 Models with Key Theft Protection on page 10 for details of operation.

### **Safety Lock/Unlock\***

Many Police forces now recommend that you lock your vehicle’s doors whilst driving, Safety Lock/Unlock prevents you from having to remember to do so and is available if the door locking facility is included with your system. If all the doors, bonnet and boot are closed and you turn on the vehicle’s ignition all the doors and boot will lock. When you turn off the ignition all the doors and boot will then unlock. To stop the doors and boot locking on a single occasion (for example if you wish to start the engine and then vacate the vehicle to scrape ice from the windows), open a door and turn on the vehicle’s ignition, after 1 second the vehicle’s hazard lights will give a single flash. It is then safe to close your door and Safety Lock/Unlock will not lock your doors until the next time you turn the vehicle’s ignition off then on again.

This feature can also be turned on using the Keypad in the following way:

- To enable Safety Lock/Unlock turn on the vehicle's ignition, type 7 on the Keypad and immediately turn off the ignition. Safety Lock/Unlock will now function as described.
- To disable Safety Lock/Unlock turn on the vehicle's ignition, type 7 on the Keypad and immediately turn off the ignition. Safety Lock/Unlock is now disabled and will not operate your door locks.

**Note:** For occupant safety the Safety Lock feature is configured to only activate Single Locking circuits & should never operate a vehicle's Double or Dead Locking.

\*These features may not be available on certain vehicles or may require labour and/or parts, incurring extra cost. Please consult your installing dealer.

## 4. Using the Ignition PIN Procedure

### **IMPORTANT NOTICE:**

In the following sections describing the operation of the Ignition PIN Procedure, reference to a PIN code will be made. The PIN code for your security system will have been issued to you on two self-adhesive labels which must be kept in a safe place. This PIN code is unique to your security system and acts as an emergency override when entered during the Ignition PIN Procedure and/or into the optional Keypad. You can change the PIN code printed on the issued labels, to one of your own choice that you can easily remember, however, failure to recall your PIN code could prevent yourself and your installing dealer from overriding the security system in the event of failure of the vehicle's Remote Control. If you do not know, or have forgotten your PIN code then your installing dealer can reset this for you, provided that the security system is not armed. The system's PIN can only be changed using the Keypad.

### **Disarming the Security System**

If the vehicle's Remote Control fails to operate the security system, due to a depleted battery in the vehicle's Remote Control for example or its total loss/damage, the security system can be disarmed using the Ignition PIN Procedure (alternatively the optional Keypad and Touch Key can also be used as an override, if supplied with your system. See pages 17 & 16 respectively).

### **To disarm the security system using the Ignition PIN Procedure:**

- Unlock the driver's door with the vehicle's key and enter the vehicle (the siren will sound).
- Cycle the ignition 3 times in 7 seconds i.e. off to on, off to on, off to on (the siren will sound, if not already doing so).
- The LED will now display solid green for 3 seconds, before proceeding to flash red. If the first digit of the security system's PIN is 0, then the ignition must be turned off whilst the LED is still green. Otherwise, allow the green LED to extinguish and then count the red flashes and turn the ignition off immediately after the corresponding flash i.e. If the first digit is 3, turn the ignition off after the 3rd red flash.
- With the first digit selected turn the ignition back on. The LED will display solid green again for 3 seconds, before proceeding to flash red. Select the 2nd, 3rd and 4th digits in the same manner as the first.

- When the ignition is turned off to select the 4th digit, the security system will either:

**a) Disarm in the normal way if the PIN code is correct.**

If the Key Theft Protection feature is selected, the PIN must be entered again, in the same way now, to unset the immobiliser.

**b) Remain armed if the PIN code is incorrect.**

The security system only allows 3 attempts to enter the correct PIN code.

**Note:** If a 3rd incorrect PIN code is entered, the security system will ignore all further PIN code entries, whether by Ignition Procedure or Keypad, for 3 minutes. This “PIN lockout” is a security feature.

## **Teaching New Radio Keys & Touch Keys to the Security System**

### **IMPORTANT NOTICE:**

When teaching one or more Touch Keys into the security system all previous Touch Keys will be erased from the system. Therefore, you must always teach ALL the Touch Keys required to operate the security system at the same time.

If an additional Touch Key is required or an existing Touch Key is lost the new key can be programmed to the security system using the Ignition PIN Procedure (alternatively the optional Keypad can also be used to teach Touch Keys, if supplied with your system. See page 19).

### **To programme new Radio Keys and/or Touch Keys:**

- Ensure all the Touch Keys required to work the system are at hand and that the security system is disarmed (using an existing Touch Key, Keypad or previously described Ignition PIN Procedure).
- Cycle the ignition 3 times in 7 seconds i.e. off to on, off to on, off to on.
- The LED will now display solid green for 3 seconds, before proceeding to flash red. If the first digit of the security system’s PIN is 0, then the ignition must be turned off whilst the LED is still green. Otherwise, allow the green LED to extinguish and then count the red flashes and turn the ignition off immediately after the corresponding flash i.e. If the first digit is 3, turn the ignition off after the 3rd red flash.
- With the first digit selected turn the ignition back on. The LED will display solid green again for 3 seconds, before proceeding to flash red. Select the 2nd, 3rd and 4th digits in the same manner as the first.
- When the ignition is turned off to select the 4th digit, the LED will display 2 red flashes every 2 seconds to indicate the security system is ready to learn Touch Keys in the next 15 seconds.
- Briefly press the 1st Touch Key to the receptacle and remove it. The dashboard LED will illuminate red for 1 second and the siren will bleep as confirmation that the Touch Key has been learnt. Repeat this for the remaining Touch Keys.

15 seconds after the last Radio Key or Touch Key has been taught the security system will automatically exit programming mode.

## **5. Using the Optional Touch Key Override**

Your Sigma security system's Touch Keys utilise Dallas IC technology. Although extremely robust you must take care of these Touch Keys to prolong their working life.

- If you lose or damage a Touch Key, replace it immediately.
- Your installing dealer can supply up to 4 Touch Keys to operate your security system (maximum 4 to preserve security).
- The Touch Keys are not battery powered and so should not be split or require any maintenance.

### **Disarming the Security System**

If the vehicle's Remote Control fails to operate the security system, due to a depleted battery in the vehicle's Remote Control for example or its total loss/damage, the security system can be disarmed using the Touch Key (alternatively the built-in Ignition PIN Procedure or the optional Keypad, if supplied with your system, can also be used. See pages 14 & 17). To do this, enter the vehicle (the siren will sound), briefly press the Touch Key to the receptacle and remove it, the security system will disarm in the normal way. If the Key Theft Protection feature is selected, the PIN must now be entered using the Keypad (or Ignition Procedure in extreme cases) to unset the immobiliser.

### **Arming the Security System**

If the vehicle's Remote Control fails to operate the security system, due to a depleted battery in the vehicle's Remote Control for example or its total loss/damage, the security system can be armed using the Touch Key (alternatively the optional Keypad can be used, if supplied with your system. See page 17). To do this open and leave open the vehicle's door, briefly press the Touch Key to the receptacle and remove it, the security system will arm in the normal way, (along with Door Open, Closed Loop & Auto-Arm Warning Bleeps if switched on) immediately close the door and manually lock the door with the vehicle's door key.

### **Teaching New Touch Keys to the Security System**

Touch Keys can be programmed into the security system using the Ignition PIN or optional Keypad. Refer to pages 15 & 19 of this manual for details.



## **6. Using the Optional Multi-Function Keypad**

### **IMPORTANT NOTICE:**

In the following sections describing the operation of the Keypad, reference to a PIN code will be made. The PIN code for your security system will have been issued to you on two self-adhesive labels which must be kept in a safe place. This PIN code is unique to your security system and acts as an emergency override when entered during the Ignition PIN Procedure and/or into the optional Keypad. You can change the PIN code printed on the issued labels, to one of your own choice that you can easily remember, however, failure to recall your PIN code could prevent yourself and your installing dealer from overriding the security system in the event of failure of the vehicle's Remote Control. If you do not know, or have forgotten your PIN code then your installing dealer can reset this for you, provided that the security system is not armed.

### **NOTE:**

When using the Keypad, each time a button is pressed the LED on the Keypad will flash once as confirmation. The next button should not be pressed before this confirmation. However, you only have 2 seconds to enter the next character. If you do not press the next character within this time period the LED on the Keypad will flash repeatedly, after which you must start the sequence again from the beginning.

### **Disarming the Security System**

If the vehicle's Remote Control fails to operate the security system, due to a depleted battery in the vehicle's Remote Control for example or its total loss/damage, the security system can be disarmed using the Keypad (alternatively the built-in Ignition PIN Procedure or the optional Touch Key, if supplied with your system, can also be used. See pages 14 & 16). To do this, enter the vehicle (the siren will sound), type your PIN code into the Keypad, the security system will disarm in the normal way. If the Key Theft Protection feature is selected, the PIN must be entered again, in the same way, now to unset the immobiliser. The security system only allows 3 attempts to enter the correct PIN code.

**Note:** If a 3rd incorrect PIN code is entered, the security system will ignore all further PIN code entries, whether by Keypad or Ignition Procedure, for 3 minutes. This "PIN lockout" is a security feature.

### **Arming the Security System**

If the vehicle's Remote Control fails to operate the security system, due to a depleted battery in the vehicle's Remote Control for example or its total loss/damage, the security system can be armed using the Keypad (alternatively the optional Touch Key can be used, if supplied with your system. See page 16). To do this open and leave open the vehicle's door, type your PIN code into the Keypad, the security system will arm in the normal way, (along with Door Open, Closed Loop & Auto-Arm Warning Bleeps if switched on) immediately close the door and manually lock the door with the vehicle's door key.

## Changing the Security System's PIN Code

### **NOTE:**

The security system's PIN is unique to each security system and is the same 4 digit number that is required to operate both the Ignition PIN Procedure and the Keypad as overrides, however, the system's PIN can only be changed using the Keypad. When using the Keypad, each time a button is pressed the LED on the Keypad will flash once as confirmation. The next button should not be pressed before this confirmation. However, you only have 2 seconds to enter the next character. If you do not press the next character within this time period the LED on the Keypad will flash repeatedly, after which you must start the sequence again from the beginning.

With the ignition switched off and the security system disarmed, type into the Keypad the following:

\* \* A A A A  
\* 9 9 2  
\* B B B B  
\* B B B B  
#

Where **AAAA** represents the old 4-digit PIN code and **BBBB** represents the newly chosen 4-digit PIN code. To confirm correct input of your PIN code the siren will bleep after entering the last digit. The number **992** is the access code/command which notifies the alarm unit to accept the new PIN code.

### **Example**

So for example if the existing PIN code is 1234 and you wish to change it to 6789 you would type in:

\* \* 1 2 3 4 Your PIN code (siren will bleep)  
\* 9 9 2 Notifies security system to accept new PIN  
\* 6 7 8 9 Enter the new PIN code  
\* 6 7 8 9 Confirm new PIN code  
# Stores the new PIN code to the security system. This will be followed by a bleep.

You can see that the new code needs to be typed in twice as confirmation.

### **EXAMPLE ONLY.**

## Teaching New Touch Keys to the Security System

### **IMPORTANT NOTICE:**

When teaching one or more Touch Keys into the security system all previous Touch Keys will be erased from the system. You must always teach ALL the Touch Keys required to operate the security system at the same time.

### **NOTE:**

When using the Keypad, each time a button is pressed the LED on the Keypad will flash once as confirmation. The next button should not be pressed before this confirmation. However, you only have 2 seconds to enter the next character.

If you do not press the next character within this time period, the LED on the Keypad will flash repeatedly, after which you must start the sequence again from the beginning.

With the ignition switched off and the security system disarmed, type into the Keypad the following:

\* \* A A A A  
\* 9 9 0  
\* n  
#

Where **AAAA** represents the 4-digit PIN code and n represents the **total** number of Touch Keys to be recognised by the security system (maximum 4). To confirm correct input of your PIN code the siren will bleep after entering the last digit. The number **990** is the access code/command, which notifies the security system to accept the new Touch Keys.

Then immediately press the first Touch Key briefly onto the receptacle and remove it, the dashboard LED will illuminate **red** for **1 second** and the siren will **bleep** as confirmation that the touch key has been learnt, now press the second Touch Key briefly onto the receptacle and remove it, the dashboard LED will illuminate **red** for **1 second** and the siren will **bleep again**, continue with the third and fourth Touch Keys (if applicable). After teaching the final Touch Key wait 10 seconds. Finally test that all the Touch Keys arm and disarm the security system.

### **Example**

So for example if the PIN code is **1234** and you wish to programme in **2 Touch Keys** you would type in:

\* \* 1 2 3 4 Your PIN code (siren will bleep)  
\* 9 9 0 Notifies security system you want to programme touch Keys  
\* 2 Is the number of Touch Keys that you want to programme in  
# Confirms you want to programme Touch Keys and will be followed by a bleep.

The press the Touch Key briefly to the receptacle at the appropriate time.

### **EXAMPLE ONLY.**

## 7. Changing the way the Security System operates using the Optional Keypad

(Included with the S30 security system)

Button	Keypad Feature Summary
0	“Last Trigger Isolation” - allows the security system to be set without triggering, even if a door, boot or bonnet switch on the vehicle is not functioning correctly.
1	“Delete Arm and Disarm Indication Tone” - next armed period only, if arm/disarm tones are selected.
2	“Delete Ultrasonic Sensors” - next armed period only (Also possible using Radio Key – see page 9).
3	“Delete Dual Stage Sensor Pre-warn” <sup>*</sup> - next armed period only. (Also possible using Radio Key - see page 9).
4	“Delete Single & Dual Stage Sensor Triggers” <sup>*</sup> - next armed period only. (Also possible using Radio Key - see page 9).
5	“Delete Ultrasonic, Single & Dual Stage Sensor Triggers” <sup>*</sup> - next armed period only. (Also possible using Radio Key - see page 9).
6	“Delete Ultrasonic, Single & Dual Stage Sensor Triggers and Pre-warn” <sup>*</sup> - next armed period only. (Also possible using Radio Key - see page 9).
7	“Safety Lock/Unlock” - toggles feature on & off.
8	“Display the Vehicle’s Battery Voltage” - via the dashboard LED.
9	For future use.
*	(Star) “Change the Pre-warn Output volume”- toggles the output between a soft tone or loud bleep (Also for programming).
#	(Hash) For programming your security system.

N.B. The options marked (\*) above refer to features associated with the optional Single and Dual Stage Accessory Sensors which may not be fitted to your system.

Important: If the Arm and Disarm Indication Tones have been turned on, the security system will no-longer comply with the requirements of 74/61 EEC.

### **Last Trigger Isolation** (Option 0 on the Keypad)

If after arming the security system, the Door Open Warning Bleeps continue to sound or the alarm system repeatedly triggers for no apparent reason, yet all the doors, bonnet and boot appear to be closed correctly, this may indicate a fault on one of the switches that trigger the security system. On a normal security system this would mean the entire vehicle would have to be left unprotected. The faulty switch would result in a trigger if an attempt were made to arm the security system. To exclude the switch causing the fault – turn on the vehicle's ignition, type 0 on the Keypad and immediately turn off the ignition. Arm the security system in the normal way. If the Door Open Warning Bleeps are active the siren will bleep as before for 15 seconds, but the security system will no longer trigger on the troublesome circuit after this period.

**You must repeat this process each time you arm the security system.**

This function means that you can leave the vehicle protected on all circuits with the exception of the faulty door, boot or bonnet switch.

**Note:** Any fault should be rectified by your installing dealer as soon as possible. Remember the vehicle is not fully protected in this situation, and one faulty door switch may affect the protection on all other doors, depending on the make and model of vehicle.

### **Delete Arm and Disarm Indication Tone** (Option 1 on the Keypad)

This feature is not available unless the Arm and Disarm Indication Tones have been activated (for non EU member states only). Arming the security system without the arming tone and the following disarming tone may be necessary if you wish to arm or disarm the system late at night. To do this turn on the vehicle's ignition, type 1 on the Keypad and immediately turn off the ignition. Vacate the vehicle, closing all doors, boot and bonnet. Now arm the security system in the normal way. When the system is disarmed, 3 warning bleeps will be heard as normal if the system has been triggered in the last armed period. Now arm the security system in the normal way. When the system is disarmed, 3 warning bleeps will be heard as normal if the system has been triggered in the last armed period.

**Note:** The Arm and Disarm Indication Tones will be restored next time you arm the security system in the normal way.

**Important:** If the Arm and Disarm Indication Tones have been turned on, the security system will no-longer comply with the requirements of 74/61 EC.

### **Delete Ultrasonic Sensors** (Option 2 on the Keypad)

Arming the security system without Ultrasonic Sensor protection will be necessary if you wish to leave people or animals inside the secured vehicle (sensible safety precautions should be exercised if considering this action!). This facility may also be used to provide limited protection to the vehicle if left unattended with the windows and/or sunroof open. To do this turn on the vehicle's ignition, type 2 on the Keypad and immediately turn off the ignition. Vacate the vehicle, closing all doors, boot and bonnet. Now arm the security system in the normal way. The security system will acknowledge arming with 2 flashes of the vehicle's hazard warning lights, instead of the normal 3 second illumination.

**Note:** Ultrasonic protection will be restored next time you arm the security system in the normal way.

### **Delete Dual Stage Sensor Pre-warn** (Option 3 on the Keypad)

Arming the security system without the Dual Stage Sensor's Pre-warn facility deleted may be necessary if you wish to leave the vehicle where the Pre-warn facility would become a nuisance. This facility prevents a pre-warn output, but allows the security system to be left fully armed. To do this turn on the vehicle's ignition, type 3 on the Keypad and immediately turn off the ignition. Vacate the vehicle, closing all doors, boot and bonnet. Now arm the security system in the normal way. The security system will acknowledge arming with 3 flashes of the vehicle's hazard warning lights, instead of the normal 3 second illumination.

**Note:** The Dual Stage Sensor's Pre-warn facility will be restored next time you arm the security system in the normal way.

### **Delete Single & Dual Stage Sensor Triggers** (Option 4 on the Keypad)

Arming the security system without the Accessory Sensors Triggers may be necessary for example; if you wish to arm the security system on a ferry with an optional Single Stage Tilt Sensor and/or a Dual Stage Shock Sensor fitted. This facility deletes both the Single & Dual Stage Accessory Sensors' triggers, but allows the security system to be left fully armed. To do this turn on the vehicle's ignition, type 4 on the Keypad and immediately turn off the ignition. Vacate the vehicle, closing all doors, boot and bonnet. Now arm the security system in the normal way. The security system will acknowledge arming with 4 flashes

**Note:** The Dual Stage Sensor's Pre-warn facility will be restored next time you arm the security system in the normal way.

### **Delete Ultrasonic, Single & Dual Stage Sensor Triggers**

(Option 5 on the Keypad)

Arming the security system without Ultrasonic and the Accessory Sensors Triggers may be necessary for example; if you wish to wish to leave people or animals inside the secured vehicle (sensible safety precautions should be exercised if considering this action!) whilst on a ferry with an optional Single Stage Tilt Sensor and/or a Dual Stage Shock Sensor fitted. This facility deletes the Ultrasonic, Single & Dual Stage Accessory Sensors' triggers, but allows the security system to be otherwise left fully armed. To do this turn on the vehicle's ignition, type 5 on the Keypad and immediately turn off the ignition. Vacate the vehicle, closing all doors, boot and bonnet. Now arm the security system in the normal way. The security system will acknowledge arming with 5 flashes of the vehicle's hazard warning lights, instead of the normal 3 second illumination.

**Note:** The Ultrasonic, Single & Dual Stage Accessory Sensor triggers will be restored next time you arm the security system in the normal way.

## **Delete Ultrasonic, Single & Dual Stage Sensor Triggers & Pre-warn**

(Option 6 on the Keypad)

Arming the security system without Ultrasonics, both the Accessory Sensors Triggers and Pre-warn may be necessary in certain circumstances. This facility deletes the Ultrasonics, both Single & Dual Stage Accessory Sensors' triggers & Pre-warn, but allows the security system to be otherwise left fully armed. To do this turn on the vehicle's ignition, type 5 on the Keypad and immediately turn off the ignition. Vacate the vehicle, closing all doors, boot and bonnet. Now arm the security system in the normal way. The security system will acknowledge arming with 6 flashes of the vehicle's hazard warning lights, instead of the normal 3 second illumination.

**Note:** The Ultrasonic, Single & Dual Stage Accessory Sensor triggers & Pre-warn will be restored next time you arm the security system in the normal way.

## **Safety Lock/Unlock** (Option 7 on the Keypad)

Many Police forces now recommend that you lock your vehicle's doors whilst driving, Safety Lock/Unlock prevents you from having to remember to do so. If all the doors, bonnet and boot are closed and you turn on the vehicle's ignition all the doors and boot will lock. When you turn off the ignition all the doors and boot will then unlock. To stop the doors and boot locking on a single occasion, for example if you wish to start the engine and then vacate the vehicle, perhaps to scrape ice from the windows, open a door and turn on the vehicle's ignition, after 1 second the vehicle's hazard lights will give a single flash. It is then safe to close your door and Safety Lock/Unlock will not lock your doors until the next time you turn the vehicle's ignition off then on again.

- To enable "Safety Lock/Unlock" turn on the vehicle's ignition, type 7 on the Keypad and immediately turn off the ignition. "Safety Lock/Unlock" will now function as described.
- To disable "Safety Lock/Unlock" turn on the vehicle's ignition, type 7 on the Keypad and immediately turn off the ignition. "Safety Lock/Unlock" is now disabled and will not operate your door locks.

## **Displaying the Vehicle's Battery Voltage** (Option 8 on the Keypad)

Turn on the vehicle's ignition, type 8 on the Keypad and immediately turn off the ignition. The dashboard LED will flash the approximate voltage of the vehicle's battery (i.e. 12 flashes = 12 volts). A battery voltage below 9 volts can affect the security system's correct operation and the vehicle may not start. If your security system is armed and you have power loss, the vehicle's remote control may not operate the security system, and your emergency override Keypad may not operate. Recharge the vehicle's battery if possible or contact your motoring organisation.

## **Adjusting Pre-warn Output volume** (Option \* on the Keypad)

To switch between loud and soft pre-warn bleeps, turn on the vehicle's ignition, type \* on the Keypad and immediately turn off the ignition.

## 8. Trouble Shooting Table

If this happens	It could be this	Do this
<b>Vehicle's Remote Control fails to operate the security system</b>	Remote Control damaged or flat batteries.	Try a second remote Control if supplied. Change the battery. Report fault to vehicle dealer.
<b>Vehicle will not start when system disarmed</b>	Key Theft Protection feature has been selected.	Enter PIN via Keypad.
	Vehicle's battery is flat.	Charge vehicle's battery.
<b>Security system activates with no apparent cause</b>	'Are any of the doors, windows, bonnet, boot or sunroof open?	Close door etc and re-arm.
	Check for moving items in vehicle, i.e. air fresheners, etc. hanging from rear view mirror etc.	Remove item.
	People or animals are inside the vehicle.	Following operating instructions to disable ultrasonic sensors whilst vehicle is occupied.
	Check all air vents are closed.	If open, close vents.

**Remember:**

- The system operates from your vehicle's Remote Control – if this is not operational you must consult the vehicle manufacturer's local dealership – not the installer of your security system.
- Further problems should be referred to your installing dealer at the soonest possible opportunity.



# 9. Notes

## Arm/Disarm Indication Tones

Please note that the S32 security system is supplied with the Arm/Disarm Indication Tones turned off to comply with European legislation. If the Arm and Disarm Indication Tones are turned on the security system will no longer comply with the requirements of 74/61 EC. This feature should only be turned on in non-EU member states, where local law allows.

## **INFORMATION ON DISPOSAL FOR USERS (Private Households)**

### **1. In the European Union**

Note: If you want to dispose of this equipment, please do not use the ordinary household waste bin.

Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.

Following the implementation by members states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge\*.

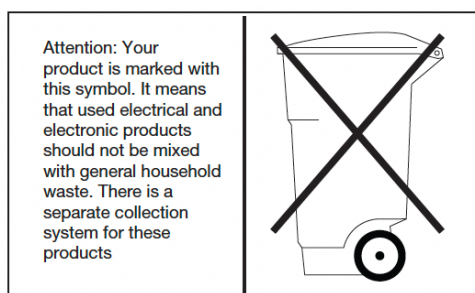
In some countries your local retailer may also take back your old product free of charge if you purchase a similar new one\*.

\* Please contact your local authority for further details.

If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately according to local requirements. By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

### **2. In other Countries outside the EU**

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.



## **EU Declaration of Conformity for R&TTE Directive**

**The EU Directives covered by this Declaration:**

Radio Equipment and Telecommunications Terminal Equipment Directive 1999/5/EC.

**The products covered by this Declaration:**

Sigma SIGAC111 for use on all Radio Key operated S Series security systems.

**The basis on which Conformity is being declared:**

The product above complies with the essential requirements of the Radio and Telecommunications Directive 1999/5/EC on the basis of the Technical Construction File Number: Sigma AC111.

**Signed:**

*M. Nolan.*

Michael Nolan

**Authority:**

Q&A Manager

**Date:**

21st July 2017

### **ATTENTION!**

**The attention of the specifier, purchaser, installer or user is drawn to special measures and limitations to use which must be observed when the product is taken into service to maintain compliance with the above Directives. Details of these special methods and limitations to use are available on request.**

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## Maintenance and Service

Your dealer will be able to assist in the event of any problem with your alarm system. If you experience any difficulty with your alarm system, take your vehicle back to your dealer and ask for assistance.

All information is supplied in good faith, but from time to time certain changes in specification/features may change without notice.

## Contact

**Call:** 01257 249 928

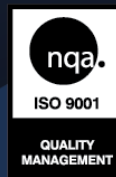
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