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Introduction

The Galaxy 2 Series is a programmable alarm control panel that will allow you to protect your home or business by providing secure and reliable intruder detection.

The system can be fully tailored by your installer to operate in the most convenient way for your lifestyle or working practice. If there are any changes in your requirements, your installer will be able to make any necessary changes to the system configuration in order to continue to provide the best protection whilst maintaining ease of use.

An alarm system will protect you best only when used correctly. Please take the time to read through these instructions carefully in order to get the best from your alarm system, and avoid false alarms.

Remember: An alarm system will only protect against intruders if it is **Set** appropriately. Always remember to Full Set, Part Set or Night Set the system when applicable.

WARNING: There are no user serviceable parts inside the alarm system component housings. Refer all servicing to qualified alarm service engineers.

Controlling Your Alarm System

Users

Each person who uses the system is described as a ‘User’ and can have their own unique identity, in the form of a PIN code, prox tag or wireless keyfob, or a combination of all three. Different users can have a different level of access to the alarm system functions. All this can be set up in the user programming section described later.

The control panel can be controlled in one of three ways:

1. By entering a PIN code at a keypad and pressing function buttons.
2. By presenting a Proximity (prox) tag to a prox reader/MAX reader.
3. By pressing a button on a special encrypted wireless keyfob.

Although all of the above methods of control will allow the user to set and unset the system for day to day operation, the keypad is required to reset the system after an alarm or fault condition. The keypad is also used to access the menu structure where additional functions can be accessed such as:

- Viewing the event log
- Programming user codes
- Temporarily omitting zones from the system

Groups

On larger systems, it is often necessary to split the system into separate areas or ‘Groups’ that can be set and unset independently by different users. Group operation can only be set up by an installer. The Galaxy 2 Series can be split into three separately controllable groups. If your system has been set up with Group operation, look for the notes on Groups throughout this manual.

Keypads

There are two types of keypad available as shown below but both work in a similar manner. The number buttons are for entering PIN codes and for changing options. The function keys down the side have the following use:

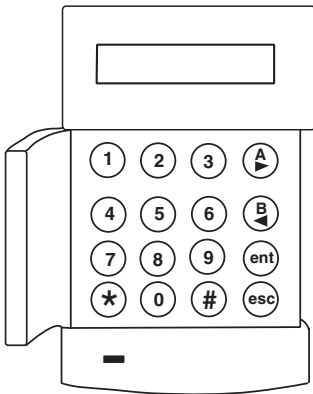
A>: This scrolls forward in a list or menu and activates a FULL set.

B<: This scrolls backwards in a list or menu and activates a PART or NIGHT set.

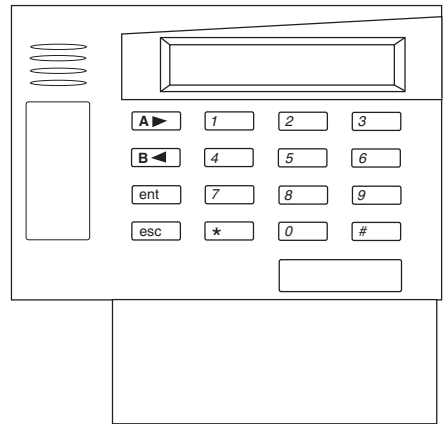
ent: This saves a current setting or activates the currently displayed command.

esc: This aborts an operation or escapes back out of a menu option.

The default user PIN code is **1234**. It is strongly recommended that this code be changed to something else as soon as possible. Choose a PIN code that you can remember easily but would be difficult for an intruder to guess.



Mk7 LCD Keypad

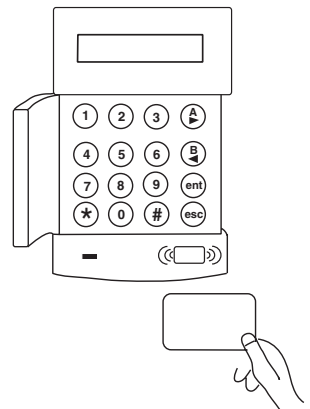


6160 Keypad

Prox Tags/Cards

Prox tags/cards are devices that contain a micro-chip that has a unique serial number. This number can be read by holding the tag/card in front of a prox reader. Prox tags/cards will allow you to set and unset the system only. The prox readers are usually built in to the case of a keypad and are identified by the prox symbol as shown:

NOTE: Prox tags/cards can also be used with a MAX³ reader.

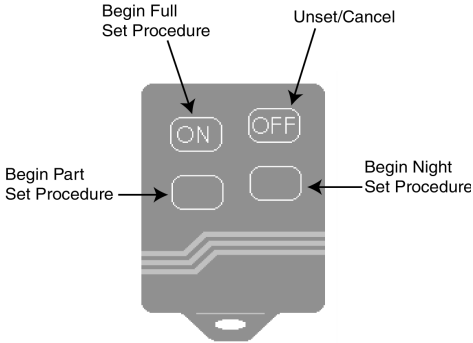


Setting/Unsetting Mk7 keyprox with a prox card

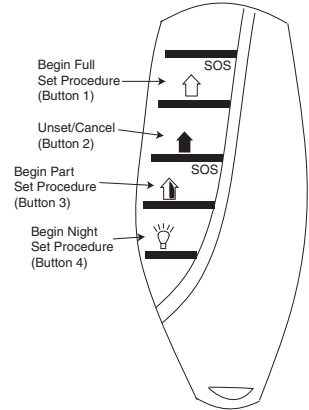
Wireless Keyfobs

Keyfobs are portable controllers that can be attached to a key ring. They will allow you to Set and Unset the system by a single press of a button and can sometimes be programmed with additional functions. Because they operate by radio, they can be used anywhere around the premises provided that they are within range of the installed radio receiver.

NOTE: Labels are provided to place over the buttons to indicate the function.



5804 Keyfob



KTC805 Keyfob

Setting the System — Full Set

To set the system, make sure all doors are closed and windows are secure. The system cannot be set if there has previously been an alarm which has not been reset.

To set the entire system:

Keypad:

Type your PIN code then press [A]

5804 Keyfob:

Press the ON button on the keyfob. (Full setting will commence as per keypad procedure)

KTC805 Keyfob:

Press button 1 on the keyfob. (Full setting will commence as per keypad procedure)

Prox Tag/Card:

Hold the tag/card in front of the prox symbol/MAX reader for three seconds

The exit timer will begin and there will be a constant tone. Leave by the agreed exit route and close the door. When the exit timer expires, there will be a five-second settling period and then two beeps will confirm the completion of setting.



If you hear a rapid beeping sound, the system cannot set as there are open zones. The keypad will show which zones are open.



NOTE: Display not shown when using wireless keyfobs to set the system.

The setting procedure can be cancelled at any time during the exit time by pressing the **esc** key on the keypad, the **[OFF]** button on the keyfob or placing the tag back in front of the prox symbol.

Setting the System — Part or Night Set

Part and Night setting are similar to Full setting but leave off certain detectors as agreed with your installer. Additionally, the system can be programmed by the installer not to give any exit timer tones during the setting period (silent set).

To Part or Night set:

Keypad:

Type your PIN code then press [B].
Press [1] Part Set **or**
Press [2] Night Set.

5804 Keyfob:

Press the [Lower Left] button (Part) **or**
Press the [Lower Right] button (Night).

KTC805 Keyfob:

Press button 3 (Part setting will commence) **or**
press button 4 (night setting will commence).

Prox Tag/Card:

Use the keypad for Part **or** Night setting.
The tag/card will only Full Set.

A 30 second exit timer will begin. Leave the protected area by the agreed route. A double beep at the end of the exit time will confirm setting.



NOTE: Display not shown when using wireless fobs to set the system.

The TCB800m keyfob can also provide LED indication of basic system status and signal confirmation (see table 2 below).

Galaxy Panel Status (Groups disabled)	Galaxy Panel Status (Groups enabled)	LED (s)	Comments
Full Set	All groups Full Set	● ○ ○	LED's flash while waiting for a result to be returned. If a successful result is received by TCB the LED stays on for 3 seconds. If an unsuccessful result is returned the LED stops flashing and goes off.
Unset	All groups Unset	○ ● ○	
Part Set or Night Set	All groups Part Set or Night Set	○ ○ ●	
N/A	Groups in different states	● ○ ●	
Setting in progress	Setting in progress	○ ○ ○	Stops flashing with all LED's off
Reset required	Reset required	○ ○ ○ ● ● ● ● ● ○ ○ ○ ○ ○ ○ ● ● ● ● ● ○ ○ ○	Reset required

Table 2. Galaxy Panel Status

Setting with Faults

Normally, if there is a fault of any kind on the system, setting will not be permitted until the fault is rectified. However, depending on the set-up of your system and the level of your user access, it may be possible override a fault and proceed with the setting procedure.

If there are faults present when you try to set via the keypad, the following typical display will be shown:

```
Fault Override
03 Event(s)>
```

Use the cursor keys to scroll through the faults. If you are able to override them, the bottom row will show the message **ENT to continue>**.

```
AC Fail
ENT to Continue
```

Pressing the **ent** key at this point will override the fault for one set period only and allow the system to set. If there is more than one fault, this process is repeated for each fault.

Cancelling System Setting

The **Full**, **Part** and **Night** setting routines can be cancelled, before the system sets, by pressing the **esc** key on the keypad used to begin the setting routine. To cancel the setting routine on another keypad, type in your user PIN code and press **A>** or **ent**.

Unsetting

To unset the system, enter the protected area by the agreed route. A timed entry period will begin and a pulsed tone will sound.

Keypad:

Type your user code then press [ent]*.

5804 Keyfob :

Press the [OFF] button.

KTC805 Keyfob :

Press button 2.

Prox Tag/Card:

Hold the tag/card in front of the prox symbol/MAX³ reader..

* **NOTE:** In the UK, on DD243 compliant systems, a user code cannot normally be used to unset the system. A prox card or tag must be used. A user code can only be used after an alarm condition has occurred.

Cancelling an Alarm

The process for cancelling an alarm is similar to unsetting the system. However, if a wireless keyfob or prox tag has been used, the alarms must be viewed on a keypad by typing in a user code and following the on-screen instructions. Only certain users are able to reset the system following an alarm condition. Your installer will inform you which users have this ability.

How to Restore an Alarm

Alarms, faults and tampers will be restored provided:

1. The cause has cleared.
2. An authorised user PIN code or anti-code has been entered.
3. The conditions have been viewed on the keypad display after steps 1 and 2 above.

If a user cannot restore all the conditions, a temporary banner is displayed to indicate that a manager or engineer is required to restore the system. This lasts for 30 seconds before the normal banner is displayed.

Alert Conditions

If a fault condition occurs when the system is unset, an 'Alert!' message will be shown on the keypad accompanied by an intermittent beep. If this occurs, you should go to the nearest keypad and type in your PIN code and press **ent**. The keypad display will show what has happened. The scroll keys **A>** and **B<** should be used to scroll through the message screens. If the condition has cleared, pressing **ent** or **esc** will reset the fault condition. A fault condition cannot be reset if it has not cleared or if it has not been viewed by a user.

If you cannot clear the fault condition yourself, always call the installer for advice.

Setting and Unsetting Groups

It is possible to split the alarm system into separate areas or ‘Groups’ that can be set and unset independently. Different users can be given access to only certain groups, or to all groups. Also, individual users can be given the option of simply setting and unsetting all groups assigned to their code or choosing which groups to set or unset each time.

Setting and Unsetting Without Group Choice

When a user with access to multiple Groups, but no group choice, wants to set or unset, they should follow the standard procedures on the previous pages.

Setting and Unsetting With Group Choice

With group choice, setting is initiated as normal, using a code, tag or fob. However, a choice of groups will then be displayed along with the current status of each group.

The status can be changed for each group by pressing the appropriate number button and the display will cycle through the possible options.

S E T	1 2 3	S = SET
G R O U P S	S U U	U = UNSET

Pressing the **ent** key will implement the status shown.

If a code, keyfob or tag/card is used while an entry timer is running or an alarm is in progress, the group that is active will be unset immediately, without any status needing to be changed on the keypad.

Hot Keys

When set by the engineer, three hot key functions are available on the keypads, by pressing a combination of two buttons. The three functions are Fire, Panic and Assistance. The Panic function can be extended to include keyfobs. The button combinations vary depending on keypad/keyfob type and are listed below.

Mk7 LCD Keypad: Fire * and 8
Panic * and 2
Assistance * and 5

NOTE: Local regulations may prohibit the use of the hot-key function.

6160 Keypad: Fire 3 and #
Panic * and #
Assistance 1 and *

5804 Keyfob: Panic lower two buttons

KTC805 Keyfob: Panic Buttons 1 and 3 (marked **SOS**)

TCB800m Keyfob: Panic Buttons 1 and 3 (Full set and Part set)

Menu Access

To access the other functions of the system, users can enter the menu mode by typing their PIN code and pressing the **ent** button. This will display the first menu item after showing system status for five seconds.

10 = Setting [ent] to Select

Users can then navigate around the menu using the scroll keys, ent key and esc key, or they can jump to any specific menu item directly by typing the number of the item. An overview of all the accessible functions is shown below. Not all users will be able to access all of the functions. This will depend on their ‘user type’ that is set up in menu 42.

10 = Setting	20 = Display	30 = Test	40 = Modify
11 = Omit Zones	21 = Zone Status	31 = Walk Test	41 = Time/Date
12 = Timed Set	22 = View Log	32 = Output Test	42 = Users
13 = Part Set	23 = System Version		44 = Mobile Nos
14 = Night Set	24 = Print		47 = Remote Access
15 = Chime	26 = Trace		48 = Level 3 Access

Table 3. Menu Access

The function of each menu item is described in the following pages.

Menu 11 - Omit Zones

This function allows a user to temporarily disable a detection zone from the system (for example, to disable a movement detector when a dog is left in the house). Zone omits last for one set period only and automatically switch off when the system is unset. On entering the menu option, the first omissible zone is displayed. The **A>** and **B<** scroll keys can be used to select the different zones in turn. To omit a particular zone, scroll to the zone so that it is displayed on screen. Press the **#** key and the message in the bottom left corner will change to 'Omitted'. Select other zones as required in a similar way. When all zones have been selected as required, press **ent** to begin setting with the omitted zones, or **esc** to escape back out and save the omitted zones for setting later.

Menu 12 - Timed Set

This option initiates the timed full setting routine, identical to typing a PIN code and pressing the **A>** key.

Menu 13 - Part Set

This menu option initiates the timed Part Set routine as described earlier.

Menu 14 - Night Set

This menu option initiates the timed Night Set routine as described earlier.

Menu 15 - Chime

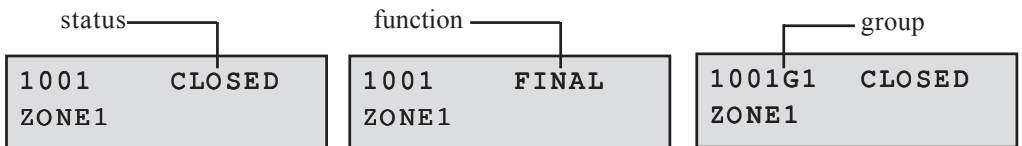
This menu option allows one or more zones to be put into Chime mode. When chime mode is enabled for a zone, the internal sounders will beep twice each time the detector on that zone is activated. This function can be useful, for example, in a shop to indicate when a customer has come through the front door.

Menu 21 - Zone Status

This menu option is used to show the status of each individual detection zone on the system. On entering the option, the first system zone will be displayed as shown:

On the top row, the zone address is shown along with the zone **function** which toggles with the current **status** (open, closed, etc).

NOTE: If groups are enabled, the **group** will be shown.



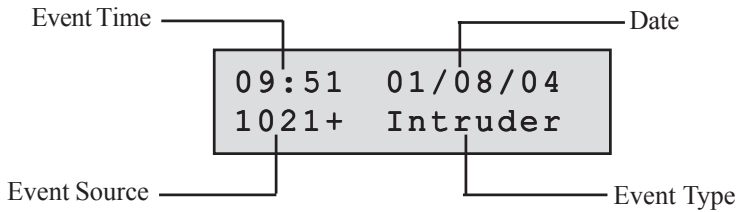
On the bottom row, the description of the zone is shown to aid identification.

Using the **A>** and **B<** scroll keys, any of the zones on the system can be displayed.

Additionally, pressing the **#** key will show additional diagnostic information for that zone. This may be required for fault finding when talking to the alarm installation company by phone.

Menu 22 - View Log

This option displays the system event log. The log records all events that occur in the system and is vital for tracing the chain of events during a break-in or when trying to trace a fault. On entering the option, the most recent event is displayed on screen in the following format:



Pressing the **B**< key will jump backwards in time by one event. Pressing the **A**> key will jump forwards by one event. Holding the scroll keys down will jump by one day at a time (Mk7 keypad only) with the date only displayed whilst scrolling.

Additional information about each event can be shown, where available, by pressing the # key.

NOTE: If groups are enabled, you can select which groups to view before entering the log.

Menu 23 - Display Version

This menu option simply displays the software version number of the system.

Menu 24 - Print

This option allows system settings to be printed if a printer is connected to the system. If no printer is connected, it has no effect. On selecting the option, there is a sub-menu of 4 options, which chose what is to be printed. The options are as follows:

1 = Codes

Prints a list of all users on the system.

2 = Zones

Prints a list of all zones on the system.

3 = Log

Prints the event log.

4 = All

Prints options 1, 2 and 3.

On selecting an option by pressing the appropriate key, a message will display that printing is in progress.

Menu 26 - Trace

This option provides a record of the most recent alarm activation. The **Trace** option records the details of the setting and unsetting of the system immediately before and after the alarm activation and the first five events occurring during the alarm activation. This information is maintained in the trace until the next alarm activation. On entering the option pressing the **A** and **B** keys steps through each of the seven trace entries.

Pressing the # key while viewing the **Trace** option displays additional information about certain events — user events reveal the keypad, user level and current group; alarm events reveal the zone descriptor if programmed.

Menu 31 - Walk Test

This menu allows the zones to be manually tested. There are two sub-options to this function as follows:

1 = Test all Zones

This puts all **omittable** zones into walk test immediately.

2 = Test Selected Zones

This allows the user to select specific zones to be put into test. On selecting the option, the first zone is displayed with the zone number and description on the top row. On the bottom row, the test status is displayed. If the # key is pressed that zone is selected for test and the message in the lower corner displays as appropriate. Each zone can be toggled on or off by pressing the # key. When all zones have been selected for test as required, press the **ent** key to start the test, or the **esc** key to abort.

Once the test has been started, any activation of a detector on test will cause the internal sounders to beep twice. The zone number and description will also display on the keypad. When more than one zone is activated at the same time, the scroll keys can be used to view all the active zones.

NOTE: For wireless movement detectors, always ensure that the detectors on test are left undisturbed for three minutes before activating the walk test. This is because the wireless movement detectors will enter a sleep mode after being activated in order to save battery life during repeated activations.

Press the **esc** key to end the walk test. All walk-tested zones will be recorded in the event log.

Menu 32 - Output Test

This menu option allows the external bell and strobe to be tested. There are two sub-options that select between the bell and strobe. Select the appropriate device and press **ent**. This will take the user to the status display to show the current condition of the device (on or off). Pressing the **ent** key will toggle the status on or off to test the device. Press **esc** to end the test.

Menu 41 - Time/Date

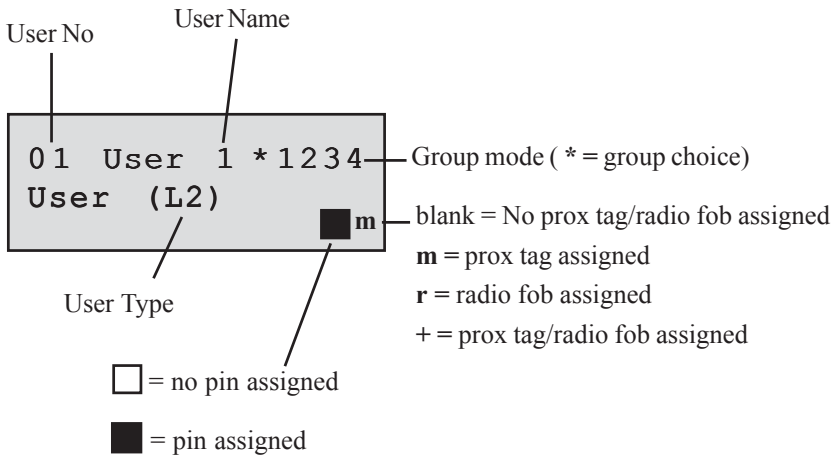
This option allows the system time and date to be set. On entering this menu, there are two sub options, A=Time and B=date. Pressing the **A** or **B** keys allows the time or date as appropriate to be set by directly entering the new value. Time is entered in 24 hour notation and the date is entered in 6-digit notation, with two digits each for the day of the month, month and the year.

Menu 42 - Editing Users

The system can have up to 24 users (user 24 is the default master user). Each user can be assigned a PIN code, a Wireless keyfob and/or a prox tag. They are also assigned an access type, which dictates what the user can and can't do. Menu 42 allows users to alter their own PIN code and allows Master users to add and remove users from the system, as well as manage users access rights.

On entering menu 42, there is a sub-menu, 1=Users. On entering the sub-menu, the first user is displayed on the screen (normal users can only see their own user programming).

The following typical information is displayed on the keypad



The **A>** and **B<** keys are used to select the user to be edited. Pressing **ent** will show the options for that user, starting with the PIN option. Again, the **A>** and **B<** keys can be used to move between the options. Pressing the **ent** key allows the displayed option to be modified. Most users can only access the PIN option. Only Master users can access the other functions. The programmable options for each user are listed below:

1 = PIN

This option allows a new 4, 5, or 6 digit PIN code to be entered.

2 = Type

This option allows the user type to be selected. There are 4 types available to choose from:

- | | |
|--------------------|--|
| 0 = Cleaner | Can only set and unset the system |
| 1 = User | Can do all day-to-day operation but cannot override fault conditions |
| 2 = Manager | As per User but can override faults and reset alarms and tampers |
| 3 = Master | As per Manager but can add, remove and alter user codes. |

3 = Group(s)

If group choice is enabled, this option will allow the groups that the user has access to to be altered. The numbers shown on the display indicate the groups that the user has access to. Pressing the appropriate number key toggles the group on or off.

4 = Name

This option allows a 6-character label to be assigned to the user, to aid identification when viewing the event log.

5 = RF Fob

This option allows a wireless keyfob to be assigned to the user. The fob serial number is shown in the bottom row. If a new fob is to be assigned it should be 'learned' in as follows:

1. Press the star (*) key to start the learn process.
2. Press any button on the keyfob. The display will indicate success.

If a keyfob needs to be deleted, while the serial number is displayed, press the **B<** key to delete the serial number then press **ent**.

6 = Prox Tag (Mk7 Keyprox/MAX³ Units Only)

NOTE: For programming prox tags onto a 6160 keyprox, use menu **5 = RF Fob**, but hold the tag up in place of steps 1 and 2.

This option allows a prox tag to be entered or deleted. On entering the option, the serial number of the current tag that is programmed will be displayed.

To delete the current tag, press the **B<** key until the serial number is cleared then press **ent**.

To program a new tag, clear any current serial number then press the **1** and **A>** keys simultaneously then present the new tag in front of the prox symbol. The new serial number should appear on the screen. Press the **ent** key to save the new number.

To program a MAX³ type in the number printed on the MAX tag. Press the **ent** key to save the number and exit.

7 = Duress

The duress option, when enabled, forces a panic signal to be sent to the monitoring station each time the user PIN, fob or tag is used. Duress codes should only be used in emergency situations when there is a threat to life.

8 = MAX Function

This option allows users to be assigned a MAX function.

1 = Access Only

This attribute allows a user to gain door access by use of a keytag or card in front of a MAX reader.

2 = Unset Only

This attribute allows a user to unset the system by use of a keytag or card in front of a MAX reader.

3 = Set and Unset

This attribute allows a user to set and unset the system by use of a keytag or card in front of a MAX reader.

Menu 44 - Mobile Numbers

This option allows the SMS text messaging feature to be altered. The system can send event messages to up to three mobile phones by text messaging. The type of events that are sent can be individually selected for each of the three mobile phone numbers. In this menu option, there are three sub-menus, one for each of the mobile phones. On selecting a particular mobile (1 to 3) and pressing **ent**, there are a further two sub-options as follows:

1 = Mobile numbers

This allows the actual mobile number to be entered. The number is entered directly by typing the number in directly at the keypad. A number can be deleted or corrected by repeatedly pressing the **B<** key. The number is saved by pressing **ent**.

2 = Message type

This allows the kind of events that are sent to this mobile number. There are four options:

1 = Alarm events

Just sends alarm activations.

2 = Alarm & set events

Sends alarms and all set & unset events.

3 = Alarm & fault

Sends all alarm events and fault conditions but not set & unset events.

4 = All events

Sends all of the above events as and when they occur.

Menu 47 - Remote Access

This menu option allows the user to initiate a remote service call when required by the installation company. The remote servicing function allows the Galaxy alarm system to be remotely monitored and reprogrammed over the phone line, by way of a modem connection, Ethernet or GSM to a computer at the alarm installer's premises at a predetermined phone number. This option should only be used when required by your installation company.

Menu 48 - Level 3 Access

This option is used to authorize access by an installation or service engineer. An engineer has a special access code that is only enabled when an appropriate user accesses this menu option and enables level 3 (installer) access by pressing the **1** key followed by **ent**. The engineer then has 5 minutes to enter his own code.

Zone Reference Table

RIO 00	ZONE	FUNCTION	DESCRIPTION	CHIME	OMIT	PART
	1001					
	1002					
	1003					
	1004					
RIO 01	1011					
	1012					
	1013					
	1014					
	1015					
	1016					
	1017					
	1018					

Installer Details

NAME	
ADDRESS	
TELEPHONE	
OFFICE HOURS	
OTHER TIMES	
ACCOUNT NO.	

