



galaxy

Alarm Monitoring

User Guide

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INTRODUCTION

Alarm Monitoring is an advanced, high performance software program that allows a Personal Computer (PC) to receive detailed event and alarm information from the full range of Galaxy control panels.

There are two variants of the Alarm Monitoring package

- Copy Protected R013
- No Copy Protection R009

Once Alarm Monitoring is installed, the PC can receive and store messages from any Galaxy site with a Galaxy Telecom Module (E062), ISDN Module (A211), RS232 Module (E054) and serial modem or Ethernet Module (E080) installed, via the appropriate network. Alternatively, the PC can be connected directly to a single Galaxy control panel, via a Galaxy RS232 Interface Module, and used to locally monitor the site.

All event and alarm messages received are stored on the PC's hard disk, along with the details of the operator and the time of acknowledging each alarm.

Alarm Monitoring can operate as a stand-alone package or in conjunction with Galaxy Gold software. When combined with Galaxy Gold, the details stored in the Galaxy Gold database are used by Alarm Monitoring to display comprehensive site information and provide the operator with detailed action instructions.

Alarm Monitoring has three operating states:

- **Foreground** - as the active application window on the PC.
- **Background** - allowing other applications to be active in the windows foreground.
- **Iconised** - allowing other applications to be active in the Windows foreground, while Alarm Monitoring is displayed as an icon.

Note: This manual assumes previous experience of working in the Microsoft Windows operating system. Refer to the Windows documentation if there are any problems.

Section 1 - APPLICATIONS

REMOTE MONITORING (SINGLE OR MULTIPLE GALAXY CONTROL PANELS)

Alarm Monitoring monitors remotely situated Galaxy control panels, receiving event details from the panels via the communications network to which the Galaxy control panel is connected. The networks, which can be used to support Alarm Monitoring are PSTN (Public Switched Telephone Network), ISDN, Ethernet and direct connection via the RS232 interface unit.

Each remote site requires a communication module to be connected to the AB communication line of the Galaxy control panel. The table below indicates which modules are required for each communication network.

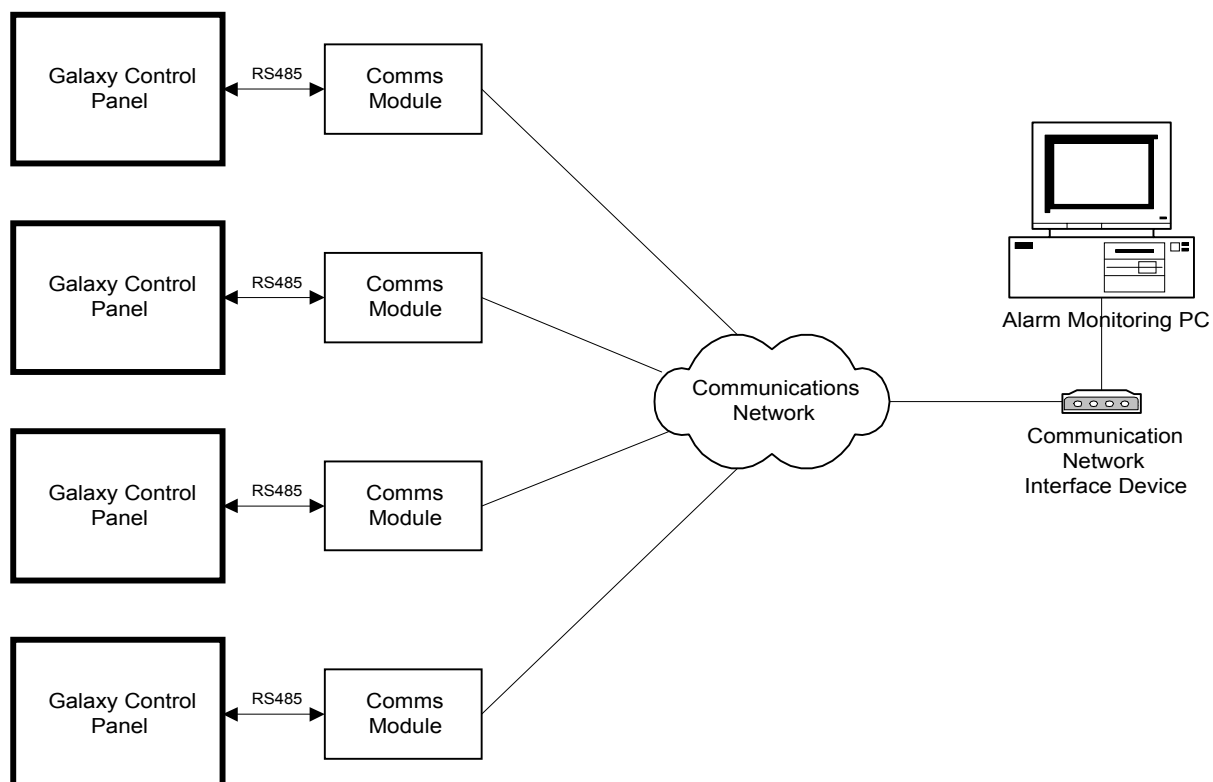
Communication Network	Communication Module	Part Number
PSTN	Telecom Module	E062
PSTN	RS232 + Serial Modem	E054 + OEM serial modem
ISDN/ISDN TA	ISDN Module	A211
Ethernet 10 Base T (TCP/IP)	Ethernet Module	E080

Note: The ISDN module is only compatible with V3 software and above. The Ethernet Module is only compatible with V4 software and above.

The Alarm Monitoring PC also requires an interface device to connect to the communication network. The table below identifies the device required for each network.

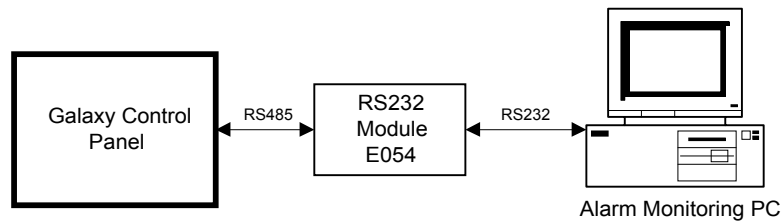
Communication Network	Interface Device
PSTN	Hayes compatible V21/V22 serial modem
ISDN/ISDN TA	ISDN Modem
Ethernet 10 Base T (TCP/IP)	10 Base T Ethernet Network Card

The diagram below gives a graphical representation of multiple site monitoring using Alarm Monitoring



ON-SITE MONITORING (SINGLE GALAXY CONTROL PANEL)

Alarm Monitoring can also be used to directly monitor the events of a single, locally situated Galaxy control panel. The event information is transferred via a Galaxy RS232 Interface Module, which connects the panel to the PC.



This allows the monitoring of the site by security guards or other authorised personnel and is typically suited to large sites with several departments or areas.

Note: The recommended maximum AB cable length for connecting the RS232 Interface Module to Galaxy control panel is 1000 metres. The maximum length of the RS232 serial interface cable is 15 metres.

Section 2: INSTALLATION

PC REQUIREMENTS

- PC — IBM compatible
- Processor — Pentium 166 or higher (for Windows 95/98) or Pentium II 233 (for Windows NT Service Pack 3/ME/2000/xP)
- Memory — 32 MB RAM min (for Windows 95/98) or 64 MB RAM min (for Windows NT Service Pack 3/ME/2000/xP)
- Hard Disk — 40 MB minimum
- CD-ROM Drive
- Operating System — Windows 95/98/NT Service Pack 3/ME/2000/xP
- Interface — 2 serial ports, 1 parallel port
- Graphics Adapter — Super VGA or higher resolution
- Display — Super VGA or higher resolution (800x600 minimum screen resolution)
- Mouse — Microsoft Windows compatible

ADDITIONAL REQUIREMENTS

For Remote Monitoring:

- Modem - V.21 or V.22 Hayes compatible
- Telephone line if using Telecom Module or RS232/Modem configuration, Network Card if using Ethernet Module, ISDN TA if using ISDN Module.

For On-Site Monitoring:

- RS232 serial interface cable (see RS232 Instruction Guide L114 for details).

INSTALLING ALARM MONITORING

1. Insert the Alarm Monitoring CD into the CD-ROM drive, the installation program should run automatically, OR
2. Select Run from the Start menu button.
3. Type **D:\CountrySelect.EXE**
4. Follow the on-screen instructions displayed during the installation procedure.

Copy Protection Device (Dongle) Installation

1. Remove any printer cable connected to the printer port marked LPT1.
2. Insert the male connector of the copy protection device into the printer port LPT1.
3. If a printer requires to be connected to the PC, insert the printer cable into the female connector of the copy protection device.

Note: For Windows NT/2000/xP platforms, dongle drivers must be installed for correct operation. To install the drivers, follow the instructions in the Dongle Drivers\Readme.txt file.

SETTING UP THE ALARM MONITORING SHORTCUT ICON

1. Place the mouse pointer on the desktop in your Windows environment. Press the right mouse button. Point to New option. The New option should be highlighted and another list of options will appear. Select Shortcut and press the left mouse button.
2. In the Create shortcut dialogue box click on browse. Double click the AdemTech folder and then the AlarmMon folder, double click the Alarm Monitoring icon.
3. The create Shortcut dialogue box will appear again. Click on the Next> button. Either; press return to accept AlarmMon32 as the Alarm Monitoring icon label, or, press the Delete button on your computer keypad and then type the Alarm Monitoring icon label text of your choice. Press the Enter button on your computer keypad.
4. Double clicking in the Alarm Monitoring icon will launch your Alarm Monitoring software.

Note: To use the data from previous versions of Alarm Monitoring, copy the ALDATA.dat file from the C:\galgold\sitedata directory to the C:\Ademtech\GalGold\SiteData directory.

Section 3: USING ALARM MONITORING

STARTING ALARM MONITORING

1. Select the Start menu button.
2. Select Programs.
3. Select the Alarm Monitoring program group.
4. Select Alarm Monitoring.

OPERATING STATES

Alarm Monitoring has three operational states:

- -Foreground -Alarm Monitoring is the currently active application window.
- -Background -Alarm Monitoring is open and maximised, but is not the currently active application window.
- -Iconised -Alarm Monitoring is displayed as an icon.

The operation of Alarm Monitoring depends on the current operating state and the settings of the **System Parameters** options.

On receiving an alarm message:

1. a. If the **Audio with icon only** system parameter is disabled, the audible alarm is activated regardless of the Alarm Monitoring operating state.
b. If the **Audio with icon only** system parameter is enabled, the audible alarm is activated only when the **Instant display Alarm** is disabled and Alarm Monitoring is iconised. The Alarm Monitoring icon flashes and the audible alarm continues sounding until all pending alarms have been acknowledged. (Go to step 2.b.i)
2. a. If the **Instant display Alarm** system parameter is enabled, Alarm Monitoring operating in the background or iconised state is promoted to the foreground and becomes the active application. The **Event Details** window is displayed.
b. If the **Instant display Alarm** system parameter is disabled, the Alarm Monitoring operating state does not alter.
 - i) If Alarm Monitoring is operating in the background or is iconised, click on the background window or double-click on the icon.
 - ii) Click on the alarm event to be acknowledged or actioned.
 - ii) Click on the **Details** icon. The **Event Details** window is displayed, prompting the operator to acknowledge or action the alarm. (Double clicking on the alarm event also displays the **Events Detail** window.)
3. a. To acknowledge the alarm, click on the **OK** button (or press ENTER)
b. To action the alarm, enter the user PIN and click on the **OK** button (or press ENTER)

Note : If there is more than one alarm to be acknowledged or actioned go to step 2.b.ii.

Comms Indicator

The Comms Indicator light gives an indication of the state of the current communications with the Galaxy control panel. The light is located in the top-right corner of the Alarm Monitoring window. The Comms light will indicate six communication states:

- Green – good communication.
- White – event currently being received.
- Yellow – waiting for connection.
- Blue – No reply after connection (connection established but comms interrupted).
- Red – error communicating (connected and communicating but errors in comms).
- Grey – cannot communicate with PC comms port (PC or set-up problem).

MENUS AND ICONS



The icon bar, displayed along the top of the Events screen, enables the Managers (Users 00 and 01) to configure Alarm Monitoring and allows user access to its operating functions. Menu options are provided in addition to the Icon function.

A detailed description of the Icon and menu functions is given in the following sections.



or **Alarm/Alarm Details** menu option

Alarm Details

The **Event Details** screen contains all information pertinent to each alarm and event received by the Alarm Monitoring package. This screen is also used to acknowledge and action alarms. This screen is displayed:

- Automatically on receipt of an alarm when the **Instant display Alarms** system parameter is enabled, or
- By clicking on the event and then clicking on the **Details** icon, or
- By double clicking on the event or alarm, or
- By selecting the Alarm/Alarm Details menu option.

The **Event Details** screen is divided into the following four sections:

Event Details	
Site Data Ademco Microtech 2 Redwood Crescent Peel Park Campus East Kilbride G74 5PA Tel. 01355354000 Account 002104	Event BA BURGLAR ALARM. Intruder style alarm activated. Time/Date 17:30, 29/10/2001 Msg. Time 17:30 Text SECURITY Group 1 Zone 1024 Peripheral User
Contact A.N. Other Site Manager Tel. 01564 765984 Tel. 0777 348975	
Signed off by Time/Date	
Comments	
Ok Print Cancel	

Site Data:

When Alarm Monitoring is used in conjunction with Galaxy Gold software, on receipt of an event, the data stored in the Galaxy Gold database for the site sending the event are copied to the Site Data section. The data comprises of the full name, address, telephone number and account number of the site.

If Galaxy Gold is not currently installed on the PC, or Galaxy Gold does not have any information on the site, **<UNKNOWN>** appears in the Site Data box and the account number sent from the site is displayed.

Contact:

The information displayed in the **Contact** box is taken from the Galaxy Gold database. This details the action to be taken by the operator, including contact telephone numbers.

Where the Galaxy Gold program is not installed on the PC, the **Contact** field is empty.

Alarm Details:

The information sent to the PC when an event occurs is extensive and comprehensive. **Table 1 : Description of Alarm Details** briefly outlines the information supplied:

Alarm Details	Description
Alarm Event	Security Industry Association (SIA) abbreviated description of the event.
Alarm Description	SIA full text description of the event.
Time/Date	Time and date that the PC received the event.
Msg. Time	Time that the event occurred.
Text	Short form description of events as retained in event log.
Group	Galaxy group with which the event is associated.
Zone	Address of the zone relating to the event.
Peripheral	Address of the remote module or keypad generating the event.
User	User number of the user actioning the event.

Table 1 : Description of Alarm Details

Operator Details:

This section displays the name of the operator who signed off (actioned) the alarm, the time and date that the action occurred and any comments entered by the operator at the time of the action.

Actioning Alarms

The alarm is actioned by entering a valid user PIN in the **Signed off by** box and clicking on the **OK** button (or pressing the **Enter** key). The time and date of the action is logged.

Acknowledging Alarms

Clicking the **OK** button when no user PIN has been entered acknowledges receipt of the alarm. The time and date of an alarm acknowledgement is not logged.

Printing Alarm Details

When viewing the Details Window of an event the user can now print out the event details. To print the event details click on the Print button in the Event Details window.



or **Alarm|Print** menu option

Printing

The Print Icon prints from the event highlighted by the cursor to the most recent (up to a maximum of 60 events). The Print selection window (opened by clicking on the Print) features three printing options:

1. Print Single Page.
2. Print to End of List.
3. Print Entire Log.

On selecting the print option the user must select one of these print modes by clicking the appropriate option.

The Print Single Page option will print one page worth of events from the current event. The Print to End of List option will print from the currently selected item to the end of the currently displayed list. The Print Entire Log option will print the entire log regardless of what is currently displayed.

Note: Which events will be displayed is dependent on the set-up of the View filters.



or **Mode** menu option

Display Mode Selection

This option allows the operator to specify the site and select the type of events to be displayed:

This Display Mode window is split into five sections:

List Spec

The **List Spec.** box offers the choice of which type of events are displayed:

All Events – The events log capacity is determined in the **Disk Events** field of the **System Parameters** option. The events log is a chronological record of all events (including alarms) received by the PC. The screen displays information on all of the events as well as the current status of all alarms (refer to table 1).

When All Events is selected, the screen displays all of the events in the log or site specific events. When a specific site name or account number is selected, then the recorded events for that site are consolidated and displayed separately.

Note: This option can also be enabled by selecting **All Events** from the mode menu.

Alarm Events – When Alarm Events is selected, the screen displays the most recent alarms signals, received by the PC, which are awaiting operator action. The number of alarms displayed at any one time on the screen is assigned in the **System Parameters** settings of the **Setup** option. The status of each alarm is indicated by the strobe icon and the background colour of the message line, see Table 1:

Alarm Status	Strobe Icon Status	Background
Not Acknowledged	Highlighted Red Background	Yellow
Acknowledged,Not Actioned	Not Highlighted	Yellow
Actioned	Not Highlighted	Grey

Table 2 : Alarm Event State

Alarms, which have not been acknowledged are displayed on a yellow background and the strobe icon is highlighted in red. If the **Audio with Icon Only** option has been disabled in the **System Parameters**, the highlighted strobe icon is accompanied by the audible alarm. Alarms which have been acknowledged, but not actioned by an operator are also displayed on a yellow background, however the strobe icon is not highlighted in red and the audible alarm, if selected, is also silenced.

Alarm events that have been actioned are displayed on the standard grey background of the window. The actioned alarms are removed from the screen as new alarms are received or when the screen is reselected using the **Mode** option.

The screen displays the most recent pending alarms for all sites or for a single, specified site. When a specific site name or account number is selected, then the most recent pending alarms for that site are consolidated and displayed.

Non-alarm events are not displayed on the screen, these events are recorded in the Event Log and Printer.

Note: This option can also be enabled by selecting **Alarm Events** from the mode menu.

MAX – When MAX is selected, the screen displays all the MAX and MicroMAX card events. (Valid, Invalid & Rejected)

These events are marked with a MAX card symbol.

Note: This option can also be enabled by selecting **MAX** from the mode menu.

SIA Event Filter

The SIA Events filter allows users to select a subset of SIA events to view.

To add events to the list of displayed events click on the event type in the left-hand window then click on the Add button. To add all event types to the list click on the Add All button. Event types can be removed from the list of displayed event types by clicking on the event type in the list in the right hand window and then clicking on the Del button. To remove all events from the list click on the Del All button. To accept the programming click on the OK button, to cancel click on the Cancel button.

Note: For the SIA filter to be active the Enable SIA Code Selection box must be ticked.

Date Range Filter

The Date Range filter allows users to view a selection of events within a given range of dates.

To enter the Start Date click on the date and month pull down menus and use the arrows to select the required day and month. Click on the Year box to allow you to alter the year setting. The programming procedure for the End Date is the same as that for the Start Date. To accept the programming click on the **OK** button, to cancel click on the **Cancel** button.

Note: For the Date filter to be active the Enable Date Selection box must be ticked.

Multiple Accounts

The Multiple Accounts filter allows users to view a selection of the account numbers programmed in to Alarm Monitoring (previously only one account or all accounts could be selected).

To include an account in the list enter the account number into the Account Number window and then click on the Add To List button. To remove an account number from the list click on the account number in the right hand window and then click on the Del button. To accept the programming click on the **OK** button, to cancel click on the **Cancel** button.

Note: For the Multiple Accounts filter to be active the Enable Multiple Account Selection box must be ticked.

Account Selection

This option allow specific accounts to be displayed. The options are :

- All Sites
 - Unknown (sites without site details from the Galaxy Gold database)
 - Specific accounts:
 - Select the site to be displayed:
 - a. Click on the **<Account No.>** box, and enter the account number of the site to be displayed. The name of the required site is highlighted in the box below.
- OR**
- b. Click on the required site name (shown in the box immediately below **<Account No.>**). The account number of the selected site is displayed in the **<Account No.>** box. If the details of all of the monitored sites are to be displayed, click on **<All Sites>**.

If the details to be displayed are stored on another drive:

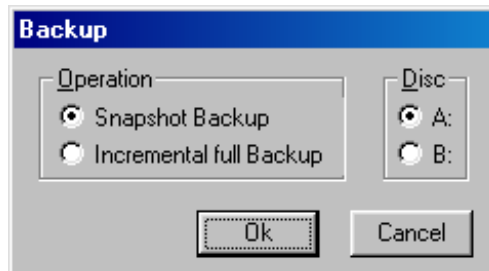
- i) Click on the **down arrow** on the box containing the **<Default Drive>**.
- ii) Click on the drive letter containing the Alarm monitoring details.
- iii) Click on the **OK** button.



or **A**larm|**B**ackup menu option

Backing up Events

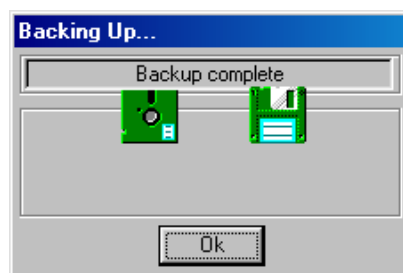
Events recorded in the events log can be saved to disk by clicking on the **Backup** icon or selecting the **A**larm|**B**ackup menu option. The **Backup** window displays as shown below:



1. Click on the backup mode required:
 - a. **Snapshot backup** - saves as many of the most recent events as possible to the free space on the disk. If a previous backup has been saved to the disk, this is overwritten.
 - b. **Incremental full backup** - used to backup the entire event log - over multiple disks if necessary. This backup mode only saves events, which have not been previously backed up.

Caution: If the **Incremental full backup** disks are lost, the events previously backed up using this mode cannot be re-saved.

2. Click on the disk drive the events are to be saved to and insert a disk into the drive.
3. Click on the **OK** button. Details of the backup being performed and the percentage completed are shown in the **Backing Up** window:

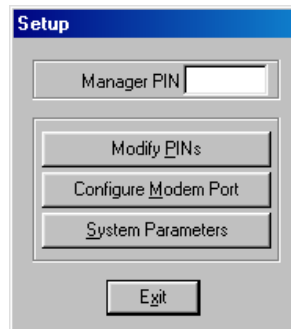


If performing an **Incremental full backup**, follow the on-screen instructions for inserting additional backup disk.



Setup

The **Setup** option enables a Master Manager to configure Alarm Monitoring to the requirements of the system. To modify the Alarm Monitoring configuration:



1. Enter a Master Manager code (1234 (00) and 1357 (01) are the master manager default codes). The digits entered are displayed as *.
2. Click on the desired option button.
3. When the required modifications have been made to a menu option, click on the **OK** button to return to the **Setup** menu. Another menu option can be selected.
4. Click on the **Exit** button to return to the **Alarm Monitor** screen.

Modify PINs (Personal Identity Number)

PINs are used to register operator action against each alarm. Each operator is assigned a four, five or six digit PIN and can also be assigned a name of up to eight alpha characters. The Alarm Monitoring system supports up to 100 operators. Operators 00 (default code 1234) and 01 (default code 1357) are the master managers, and each can assign and change the PIN numbers of all the operators (00 to 99).

To assign or modify a PIN:

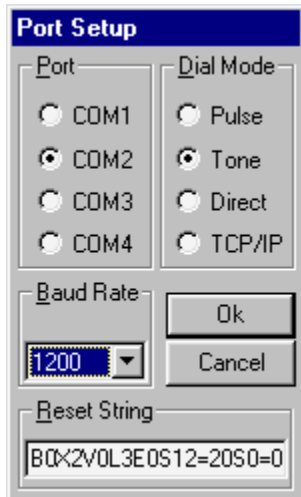
1. Click on the **Modify PINs** menu option button. The **Modify PINs** window is displayed.
2. Using the ↑/↓ or **PG UP/PG DN** keys, select the user number for PIN assignment or modification. User numbers which already have a PIN assigned to them are prefixed by a *
3. Click on the **PIN** box.
4. Enter a 4, 5 or 6 digit PIN. Each digit is displayed as a * for increased security.
5. If a user name is required:
 - a) Click on the **Initials** box.
 - b) Enter the user name (eight characters maximum).
6. Click on the **OK** button.

Configure Modem Port

There are three methods of communication between the Alarm Monitoring PC and the Galaxy control panel:

- PC Modem to Telecom Module, ISDN Module or RS232/modem combination
- Direct to RS232 Interface Module
- Via a Network card to the Ethernet Module

The **Configure Modem Port** menu option allows a Master Manager to enter the required settings for the apparatus (both modem and RS232 Interface Module) connected to the PC, enabling alarm messages to be communicated from the control panel.



1. Click on the **Configure Modem Port** menu option button. The **Port Setup** window is displayed
2. Using the **↑** and **↓** keys or the mouse, select the **Port** that the PC modem or RS232 Interface Module is connected to. The default setting is **COM2** (not applicable for the Ethernet module)
3. Press **ENTER** or **Tab** to move to the **Dial Mode** option.
4. Use the **↑** and **↓** keys or the mouse to select the correct communication mode for the system. The setting depends on whether a modem, an RS232 Interface Module or Ethernet card is connected to the PC:
 - a. **PC Modem:** Select **Pulse** or **Tone** (the dial type of the telephone exchange to which the PC modem is connected). The default setting is **Pulse**.
 - b. **RS232:** Select **Direct**.
 - c. **Ethernet:** Select **TCP/IP**
5. Press **Tab** to move to the **Baud Rate** option.
 - a. **PC Modem:** 1200 (Default setting - normally communicating via a Galaxy Telecom or ISDN Module). If the system configuration is such that communication is not via the telecom module, then another baud rate may be required.
 - b. **RS232:** The **Baud Rate** must be the same as the baud rate settings on the RS232 Interface Module (not applicable for the Ethernet Module).

System Parameters

Alarm Monitoring offers a number of user selectable system parameters, which ensure that the system operation and performance conforms to the requirements of the user.

Click on the **System Parameters** button. The **Parameters** window is displayed.

Screen Events:

This parameter determines the number of events that can be listed (between 1 and 1000) when the **Alarm Monitor [Events]** screen is displayed - the default setting is 500.

If the **All event types** screen for **All Sites** is selected (using the **Mode** icon), then the most recently received events, up to the number entered in the **Screen Events** option, are displayed. However, if a specific site is to be shown, then the number (entered in the **Screen Events** option) of recorded events for that site are consolidate and displayed.

Events not shown on the currently displayed screen are viewed using the **↑/↓** or **PG Up/PG Dn** keys.

Screen Alarms:

The **Screen Alarms** parameter determines the number (between 1 and 100) of active alarms (alarms not yet actioned) to be displayed. The default setting is 15.

Site specific, alarms, which have not been actioned can be viewed by selecting the **<Account No.>** or site name from the **Mode** option. The pending alarms for the specified site are consolidated and the most recent are displayed first.

The **↑/↓** and **PG Up/PG Dn** keys are used to scroll through the active alarms not shown on the currently displayed screen.

Disk Events:

The total number of events stored in the system event log is limited by the size of the PCs hard disk, which should be of sufficient size to accommodate the desired capacity (each site requires approximately 200 bytes). The capacity is between 1 and 250,000 events, the default setting is 100,000.

Enable Printer:

Each alarm received by Alarm Monitoring can be printed out by clicking on this parameter (a tick is displayed in the adjacent box - ☒)

The default is disabled. The printer must be on-line and connected to the parallel port (LPT1).

Note: This parameter must also be enabled when using the **Print** option in the icon bar to send previously received alarms and events to a printer.

Instant Display Alarms:

This parameter determines the status of the Alarm Monitoring window on receipt of a new alarm. When the **Instant Display Alarms** option is enabled (a tick is displayed in the adjacent box - ☒ - default setting), each new alarm sent to the PC promotes the Alarm Monitoring program, from the Windows background or the icon, to the Windows foreground. The **Event Details** window screen is opened, allowing an operator to acknowledge or action the alarm event. On iconising Alarm Monitoring, the operator is returned to the previous program.

When the **Instant Display Alarms** option is disabled, the Alarm Monitoring program must be manually brought to the foreground by clicking on the Alarm Monitoring background window or double-clicking on the icon.



or **Alarm|Remote Access** menu option

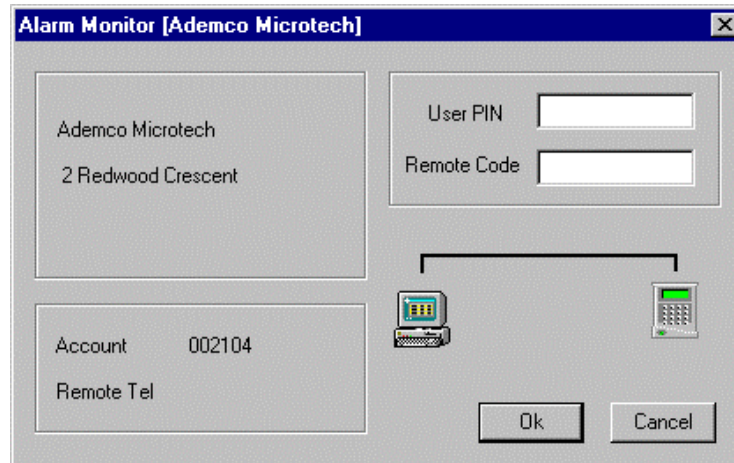
Mimic Panel (Remote Access)

This option gives users the ability to view graphically the state of the zones and outputs of the Galaxy RIOs (both onboard and external) and, to a limited extent, modify the control functions of the Galaxy control panel.

Note: this option is only available when connected to the control panel directly via the RS232 module or via a TCP/IP network and the Ethernet module.

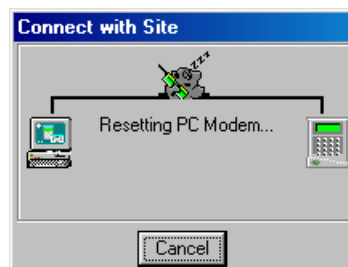
To launch this option from the menu bar of the Alarm Monitoring display, click on **Remote Access** in the drop down menu or click on the keypad icon, this will bring up the Mimic Panel Log On window.

Once selected the remote access window will be shown. Depending upon the event selected in the alarm event log, the remote access window will display the details of the site to be connected to.



To Log On to the panel, the user must enter both their User PIN and the panel remote code as prompted by the window displayed below:

When the codes have been entered click **OK** or press ENTER. Alarm Monitoring will attempt to connect with the panel. The Connect with Site window displays the status and progress of the dialling routine:



The following sequence of messages are displayed:

- Resetting PC Modem - Initialising the connection
- Dialling Site – Connects to the Galaxy Panel.
- Checking Password – confirms the Galaxy control panel password matches the password from Alarm Monitoring.

When the **Successfully Connected to Site** message is displayed, click **OK** or press Enter.

A window will appear with the message "Please wait. Synchronising local data with panel" again the user may quit by pointing and clicking on the **Cancel** button.



Using the Mimic Panel function

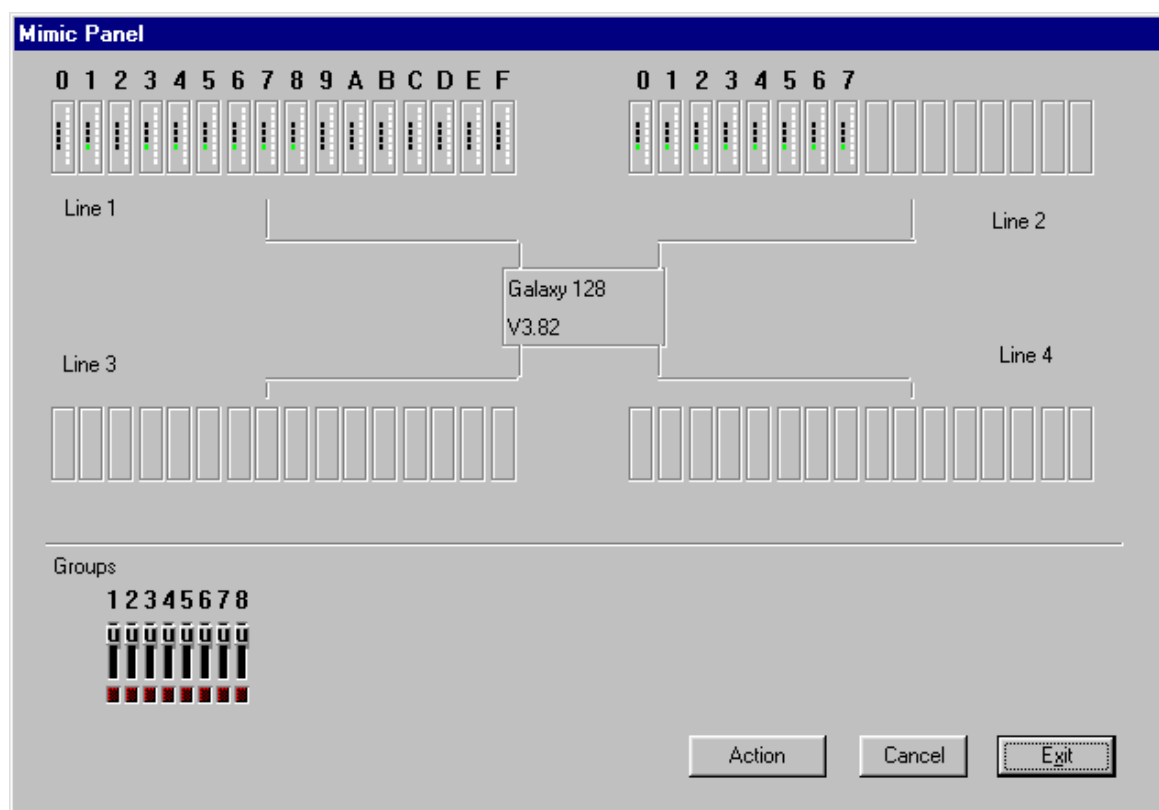
Once the Mimic Panel function has been accessed the user is presented with a graphical representation of the Galaxy control currently on-line. The first display gives a general overview of the Galaxy system. All available AB lines are displayed with details of which RIOs are present on each line, if the site programming has previously been downloaded to Galaxy Gold.

The set status of the groups is also displayed at the bottom of the display window. When the slider is at the top of a group (and marked with a U) this represents the group being in the Unset state; if the group slider is in the centre (marked with a P) this represents the group being in the Part set state; and if the group slider is at the bottom (marked with an S) this represents the group being in the Set state.

The coloured indicators below the groups (normally coloured dark red) indicate any alarm conditions in each of the groups: a bright red colour indicates an alarm condition, once this has been cancelled it may turn either; blue – which indicates a PA condition in that group, or, purple – which indicates a tamper condition in that group. The PA indicator will remain active until a PA reset has been carried out and the tamper indicator will remain active until a tamper reset has been carried out.

It is possible in the Modify panel programming mode to set, unset, and part set the system. This is done by clicking and dragging the group set status indicators on the Overview card. Clicking, or, clicking and dragging with the left mouse button allows individual groups to be selected. Using the right mouse button selects all groups. Clicking on an active alarm indicator and then clicking on the OK button will cancel any alarms for that group and unset it. The indicator will cease to be red: if it was a tamper condition the indicator will turn purple until it has been reset; if it was a PA alarm then it will turn blue until it is reset; otherwise it will return to the very dark red colour. The Mimic function does not require a code to unset the system.

The output and zone status of any Galaxy RIOs on the AB lines are indicated by coloured squares on the blocks representing each of the RIOs. The group of four blocks represents the RIO output statuses numbered one to four from top to bottom. The group of eight blocks represents the zone statuses again numbered from one at the top. The colours of these blocks give details of the states of the outputs and zones; for details see below. When in View only mode, the Action and Cancel buttons are ghosted and clicking on them has no effect.



For a better view of the states of the outputs and zones on an individual RIO double click on one of these blocks.

This gives the user a graphical representation of the status of the RIO selected. The outputs and zones for the RIO are listed with coloured indicators beside them that give details of the state of the outputs and zones, e.g. Open Zone, Omitted Zone, Tamper S/C Zone. There are two zone states that users will not be aware of: Suspended setting denotes a zone that is open during setting of the system that is not a Final, Exit, or Exit/Entry zone type; this condition is indicated by a blue disk (for open zone) with a horizontal yellow double headed arrow. Another zone state is Alarm; this is activated by anything that will cause an intruder output to activate or a tamper condition on the zone; it is indicated by the presence of a red circle around any of the zone buttons. Also listed are the states of programmed output types. A black circle represents OFF, a green circle represents ON.

Mimic Panel

RIO 102				
		1	INTRUDER	
		2	INTRUDER	
	1	BELLS	3	INTRUDER
	2	STROBE	4	INTRUDER
	3	PA	5	INTRUDER
	4	RESET	6	INTRUDER
		7	INTRUDER	
		8	INTRUDER	

Closed Zone
 Open Zone
 Tamper S/C Zone
 Tamper O/C Zone
 Low Resistance Zone
 High Resistance Zone
 Alarm Zone
 Omitted Zone
 Suspended Set
 Inactive Output
 Active Output

Users can omit zones and test outputs by clicking on the button corresponding to each individual output or zone. This causes the button to flash: output buttons flash green and grey when they have been provisionally programmed as active; outputs which are active before being clicked on (i.e. are being provisionally programmed as inactive) will flash black and grey; to confirm the programming click on the **OK** button, to abort the programming click on **Cancel**. A zone can be omitted by clicking on it's button and then pressing the **OK** button.

Note: Unlike menu option 32 (OUTPUTS) the outputs are not tested by output type but by output address. If a zone button is pressed and the zone has not been programmed as omissible then the yellow cross, which indicates zone omission will flash on the button for approximately 2 minutes and then Galaxy Gold will abort its attempts at omitting the zone. For more details on testing outputs and omitting zones see the Galaxy Engineer's manual. Outputs programmed as output type Reset (menu option 51.3.7) **cannot** be activated from the mimic option.

To return to the Overview card click on the Exit button. This allows you to select another RIO if desired.

If the RIO being viewed is an RF RIO then the RIO view card indicates the RF specific status of the RIO.

Mimic Panel

RF RIO 204				
		1	INTRUDER	
		2	INTRUDER	
	1	BELLS	3	INTRUDER
	2	STROBE	4	INTRUDER
	3	PA	5	INTRUDER
	4	RESET	6	INTRUDER
		7	INTRUDER	
		8	INTRUDER	

Closed Zone
 Open Zone
 RF Supervision Fail
 RF Lid Tamper
 RF Low Battery
 RF Zone Fob Deleted
 Alarm Zone
 Omitted Zone
 Suspended Set
 Inactive Output
 Active Output

Requirements for Mimic Feature

- The Remote Access function is only available when communicating via the RS232 module and/or Ethernet Module.
- The Mimic Panel function is available on the following control panels, Galaxy: 8, 18, 60, 128, 500, 504 and 512 (High Security). On the Galaxy 512, the Mimic Panel function is limited to View only mode.
- The Mimic Panel function is **not** available on the Galaxy 16 and 16 plus.
- The Mimic Panel function requires the following hardware and software to be fitted to the Galaxy security system: the Galaxy control panel must have software version V1.2X or above. (V4 and above for the Ethernet module). For local servicing an RS232 module with hardware revision Rev. 1.1X or above with software version V1.XX or above. In addition the Mimic Panel function requires a Microsoft Windows compatible mouse connected to the PC.



or the **H**elp menu option

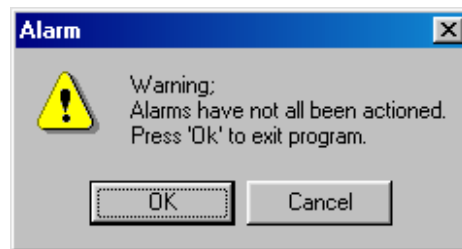
Software Version

Displays details of the Alarm Monitoring software version.



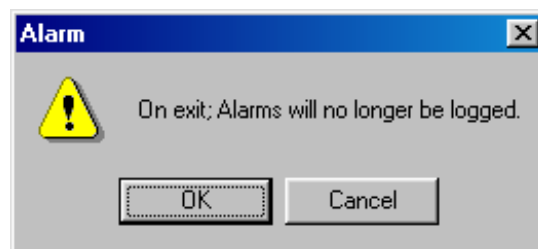
Exiting

To exit from Alarm Monitoring, click on the **Exit** icon or select the **A**larm|**E**xit menu option. If there are pending alarms the following message window is displayed:



Click **OK** to continue the exit procedure without actioning the pending alarms, or click **Cancel** and action each of the active alarms before exiting the system.

The following warning message window is displayed before the system is finally exited:



Click **OK** to fully close the Alarm Monitoring application.

Note: The system will not be able to receive alarms or events from the sites that it is connected to. Any alarm conditions occurring at a site while Alarm Monitoring is closed are not logged and will not be indicated by the audible alarm.

Click **Cancel** to abort the **Exit** procedure, returning Alarm Monitoring to its operating state.

If Alarm Monitoring is running in its iconised operating state, click on the icon to display the drop-down menu and click the **C**lose option. The **E**xit message windows previously described are displayed.

Appendix A: PROGRAMMING THE GALAXY CONTROL PANEL

Refer to the Galaxy Engineer Manual (IE1-0027) for detailed information on the programming of the **Communications** option (menu option number 56).

REMOTE MONITORING VIA THE GALAXY TELECOM MODULE

If the Galaxy control panel is being monitored remotely via a PC modem and the Galaxy Telecom Module, then the panel requires the following programming details to be entered in the **56=COMMUNICATIONS** option:

2. Select **1=TELECOMS** and press the **ent** key.
3. Select **1=FORMAT** and press the **ent** key.
 - i) Select **3=MICROTECH** and press the **ent** key.
 - ii) Set the **STATUS** to **ON** and allocate the **GROUPS** that require to be monitored, for each of the 18 **TRIGGERS** (alarm and event types) to be transmitted to the Alarm Monitoring PC.
4. Select **2=TEL NO. 1** and press the **ent** key.
 - i) Enter the telephone number of the PC modem (up to 22 digits).
5. Select **3=ACCOUNT NO.** and press the **ent** key.
 - i) Enter the account number of the site (maximum six digits).
6. Select **6=DIAL TYPE** and press the **ent** key.
 - i) Select **Tone** or **Pulse** (default) depending on the telephone exchange. (If the dial type of the exchange is unknown, then select **Pulse**.)

Note: if the primary number is required for signalling to central station then option **15=ALARM MONITORING** should be programmed.

REMOTE MONITORING VIA THE ISDN MODULE

If the Galaxy control panel is being monitored remotely via a PC modem and the Galaxy ISDN Module, then the panel requires the following programming details to be entered in the **56=COMMUNICATIONS** option:

1. Select **3=ISDN** and press the **ent** key.
2. Select **01=PRIMARY** or **02=SECONDARY** and press the **ent** key.
3. Select **1=TEL NO. 1** and press the **ent** key.
 - i) Enter the telephone number of the PC modem (up to 22 digits).
4. Select **2=ACCOUNT NO.** and press the **ent** key.
 - i) Enter the account number of the site (maximum six digits).
5. Select **3=DIAL TYPE** and press the **ent** key.
 - i) Select either **Analogue** or **Digital** depending upon the network
6. Select **4=FORMAT** and press the **ent** key.
 - i) Select **3=MICROTECH** and press the **ent** key.
 - ii) Set the **STATUS** to **ON** and allocate the **GROUPS** that require to be monitored, for each of the 18 **TRIGGERS** (alarm and event types) to be transmitted to the Alarm Monitoring PC.

Note: if the primary number is required for signalling to central station then option **10=ALARM MONITORING** should be programmed.

REMOTE MONITORING VIA THE RS232 MODULE & MODEM

If the Galaxy control panel is being monitored remotely via a PC modem and the Galaxy RS232 Module/Modem configuration, then the panel requires the following programming details to be entered in menu option 56.

1. Select **2=RS232** and press the **ent** key.
2. Select **1=MODE** and press the **ent** key
3. Select **2 = MODEM** and press the **ent** key
4. Select **1=TEL NO. 1** and press the **ent** key.
 - i) Enter the telephone number of the PC modem (up to 22 digits).
5. Select **2=ACCOUNT NO.** and press the **ent** key.
 - i) Enter the account number of the site (maximum six digits).
6. Press **esc** and select **2=FORMAT** and press the **ent** key.
 - i) Select **2=MICROTECH** and press the **ent** key.
 - ii) Set the **STATUS** to **ON** and allocate the **GROUPS** that require to be monitored, for each of the 18 **TRIGGERS** (alarm and event types) to be transmitted to the Alarm Monitoring PC.

ON-SITE MONITORING (RS232 INTERFACE MODULE)

If the Galaxy control panel is local to the Alarm Monitoring PC and the communication is via the RS232 Interface Module, then the following programming details require to be entered in the **56=COMMUNICATIONS** option:

1. Select **2=RS232** and press the **ent** key.
2. Select **1=MODE** and press the **ent** key.
 - i) Select **1=DIRECT** and press the **ent** key.
3. Select **2=FORMAT** and press the **ent** key.
 - i) Select **2=MICROTECH** and press the **ent** key.
 - ii) Set the **STATUS** to **ON** and allocate the **GROUPS** that require to be monitored, for each of the 18 **TRIGGERS** (alarm and event types) to be transmitted to the Alarm Monitoring PC.
4. Select **3=ACCOUNT NO.** and press the **ent** key.
 - i) Enter the account number of the site (maximum six digits).

REMOTE MONITORING VIA THE ETHERNET MODULE

If the Galaxy control panel is being monitored remotely via a PC modem and the Galaxy Ethernet configuration, then the panel requires the following programming details to be entered in menu option 56.

1. Select **4=ETHERNET** and press the **ent** key.
2. Select **1=MODULE CONFIG** and press the **ent** key.
3. Select **1=IP ADDRESS** and press the **ent** key.
4. Enter the IP address of the Ethernet module.
5. If signalling over a wide area network (WAN) select **3=GATEWAY IP** and press the **ent** key.
6. Enter the address of the Gateway Router.
7. Select **2=ALARM REPORT** and press the **ent** key.
8. Press **esc** and select **1=FORMAT** and press the **ent** key.
 - i. Select **1=MICROTECH** and press the **ent** key.
 - ii. Set the **STATUS** to **ON** and allocate the **GROUPS** that require to be monitored, for each of the 18 **TRIGGERS** (alarm and event types) to be transmitted to the Alarm Monitoring PC.
10. Select **2=IP ADDRESS** and press the **ent** key.
11. Enter the IP address of the destination PC and press the **ent** key.
12. Select **2=ACCOUNT NO.** and press the **ent** key.
 - i. Enter the account number of the site (maximum 6 digits)
13. Select **4=PORT NO.** and press the **ent** key.
14. Enter the TCP/IP port number of the destination PC (Default = 10002).

Appendix B : Alarm Monitoring Panel Compatibility

The table below shows the levels of compatibility between Alarm Monitoring and the the various panel software versions:

Alarm Monitoring Version	Galaxy 8/18/60/128/500/504/512 Version									Galaxy 16/16+ Verison				
	1.04	1.15/1.16	1.17/1.18	1.2x	1.3x	2.0x/2.1x	2.3x	3.0x	V4	< 1.95/1.96	1.95/1.96	2.x	2.6x	3.x
1.1/1.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes
2.1/2.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes
2.5/2.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes
3.1/3.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes

Alarm Monitoring is compatible with the following communication module versions:

Telecom Module

E050 - PCB Rev. 0.5 Software versions 1.00 and above(the mimic function is only available on software V2.12 and above)

E062 - PCB Rev. 0.5 Software versions 4.00 and above

RS232 Module

E054 software versions 1.20 and above

ISDN Module

A211 software version 3.00 and above

Ethernet Module

E080 software version 1.00 and above

Appendix C: PC Network Set-up Requirements

Requirements

- Ethernet Module
- Cat 5 Network Cable
- 10/100Mbps Ethernet Adapter

The TCP/IP protocol will have to be installed in the network settings.

- Static IP Address specified.
- Subnet mask specified.
- Default Gateway Specified.

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