

# AQUARIUS SYSTEM

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## AQUARIUS SYSTEM

### PC REQUIREMENTS

An IBM System Computer compatible is supplied as standard with the following:

*System Computer Chassis containing:*

- Hard disk drive 40 - 200 MB (STATUS programs never require more than 10 MB of disk space)
- 3.5 inch floppy disk drive
- 8 MB of memory (extended/expanded)
- 486 DX66 processor
- One or more additional serial interface cards (Quatech DS-100)

Keyboard

Monitor (touchscreen or standard)

Mouse

Dongle (for software protection)

#### Serial Ports

The Aquarius® software package makes extensive use of serial communications. This is traditionally a complex subject on the System Computer, due to the System Computer interrupt structure and lack of in-built interrupt-driven serial drivers. The Status software package utilises in-house developed drivers to overcome these shortcomings. The wiring of the RS232 interface only requires the correct connection of three wires (TXD, RXD and OV signals). In addition, the connector at the System Computer end should be wired for 'Null Modem', i.e. for a 9-pin connector, pins 4, 6 and 8 are linked together.

The standard System Computer uses two interrupts for serial communications:

IRQ 4 for COM1

IRQ 3 for COM2

To add more serial channels for Aquarius® use of the high-order interrupts, IRQ 10 and above, is made:

IRQ 10 for COM3

- IRQ 11 for COM4

IRQ 12 for COM5

IRQ 15 for COM6

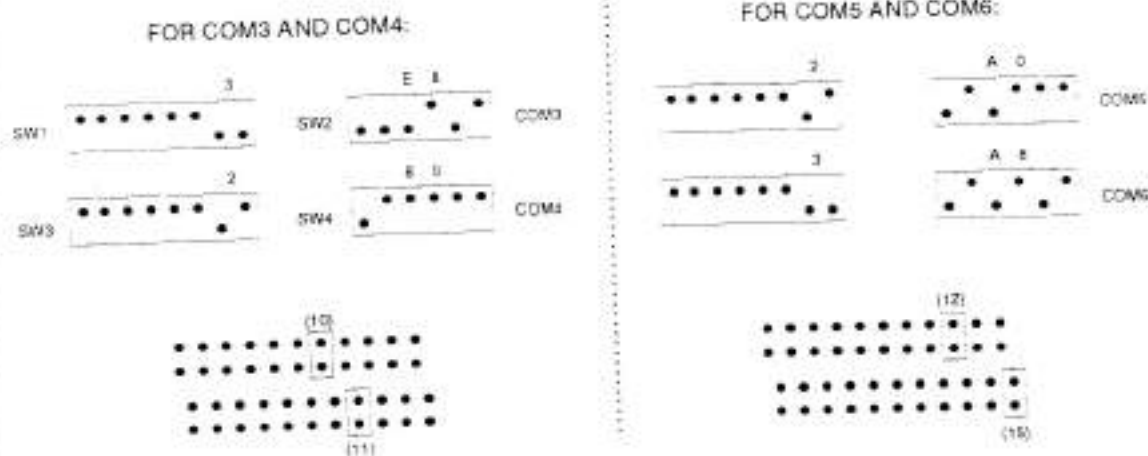
These are defined in the software and cannot be changed. The sharing of interrupts causes problems and must be avoided. The use of the high-order interrupts requires the use of special but commercially available serial cards, as most off-the-shelf cards only support IRQ 2 - 7 or similar.

# AQUARIUS SYSTEM

## SYSTEM COMPUTER REQUIREMENTS

The OptimR® range uses the Quatech DS-100 two-channel serial card, supplied by Status fully configured. The set-up for these cards is shown below:

### QUATECH DS 100 SERIAL CARD



The touch screen is always plugged into COM3, the mouse to COM1 and the Aquarius® network is normally connected to COM4.

NB The Aquarius® network runs on RS422, while the System Computer uses RS232. An adaptor is therefore required, board number 5614, which is available fully boxed, opto-isolated, and self-powered from 240V (230V) mains.

All Aquarius® System Computer's are now 486 DX 66 with 8 MB RAM. They normally have Smart drive® installed, otherwise database handling can be slow.

## AQUARIUS SYSTEM

### BACK-UPS

It is essential that back-ups are made of the user database and of any configuration changes that have been made. A copy of these back-ups should, if possible, be given to the Status Development department, for security and to enable us to help with any problems. In general the files are too large to copy onto a floppy disk without data compression using PKZIP (shown below) or the OptimR® supplied program. Do not use the DOS back-up.

On all program releases dated after 1/7/94, two batch files are included. These two batch files are installed into the directory C:\NEWHY along with the program data.

**databack.bat** Backs up the database and all site specific parameters to the floppy disk.  
**datarest.bat** Restores the backed up data from the floppy disk to the System Computer.

To use these programs proceed as follows:

#### 1. To back-up a database

<u>Key</u>	<u>Displayed Result</u>	<u>Comment</u>
cd\	C:\>	
cd newhy	C:\NEWHY>	In the program directory
databack	runs the batch file to back-up to the floppy	

On completion check that the floppy disk contains files with the extension .ZIP. This is done by typing **dir a:** at any DOS prompt, which displays all files on the floppy disk. The database is now backed up.

#### 2. To restore a backed-up database

**Note:** This will overwrite any existing data.

<u>Key</u>	<u>Displayed Result</u>	<u>Comment</u>
cd\	C:\>	
cd newhy	C:\NEWHY>	In the program directory
datarest	runs the batch file to restore the data to the System Computer	

The database is now restored.

From Version 4.20.00 onwards a new backup and restore program is available which can be run from within the OptimR® software. For details on using this program, see 'Backup and Restore Screen' (page ).

**NOTE:** It is recommended that wherever possible, this program is used in preference to **databack.bat** and **datarest.bat**.

## AQUARIUS SYSTEM

### UPDATES

Occasionally new program releases are available, either to implement bug fixes, or more often to provide new features. A program update does **not** contain any user parameters; the existing ones will be left untouched, but back-up the system **before** a program update for security.

#### Installing a program update

Program updates normally consist of one floppy disk. Before updating a program follow normal procedures for backing up to a floppy (see previous page). To update the software, exit the program by holding down the **Alt** and **F10** keys at the same time - this will bring up the DOS prompt **C:\NEWHY>**. Insert the floppy disk with the new software version into the floppy disk drive and type **a:\resthyd**. The process of updating the software takes about a minute.

The file **fixeddef.cnf** must also be copied to the System Computer. This is done by calling up the DOS prompt **C:\NEWHY>**, typing **copy fixeddef.cnf c:\sitedata** and pressing the **Enter** key. The System Computer will ask whether the old **fixeddef.cnf** file should be overwritten: press **y** for Yes.

#### **IMPORTANT: UPDATING SITES FROM VERSIONS BELOW 4.20.00 TO VERSION 4.20.00 OR ABOVE**

From Version 4.20.00 onwards the input configuration database has been resized. This means that the simple procedure above cannot be followed and a second disk, Version 4.20.01, is needed. The procedure to update a site from versions below 4.20.00 to new software is as follows:

1. Exit the Aquarius® program by pressing the **Alt** and **F10** keys simultaneously.
2. Insert the disk containing Version 4.20.01 into the **a:** drive and at the **C:\NEWHY>** prompt type **copy a:\\*.\***. The System Computer will ask whether the file **hydra.exe** is to be overwritten: press **y** for Yes.
3. Copy the file **fixeddef.cnf** from **C:\NEWHY>** to **C:\SITEDATA**.
4. Run the program and enter the **Tools** screen. Touch the **Backup/Restore** button to bring up the 'Backup and Restore Screen' (see page ).
5. Insert a blank floppy disk into the **a:** drive and touch the **Backup Input Data** to floppy disk button. This will back up the input configuration database.
6. When the backup has finished, exit the program, insert the disk containing the new version of software and install it as normal by typing **a:\resthyd** and **Enter**.
7. Run the program again and call up the 'Backup and Restore Screen' again. Insert the disk containing the database backup and touch the **Restore Input Data** from floppy disk button. This procedure will take about two minutes.

The updating procedure is now complete.

**FAILURE TO FOLLOW THE ABOVE PROCEDURE CORRECTLY WILL RESULT IN THE LOSS OF THE ENTIRE DATABASE.**

*Ver 1.1/March '96*

## AQUARIUS SYSTEM

### UPDATES (contd)

#### Creating 'clean databases'

It is sometimes convenient to start with a reset database, e.g. a machine might have been built which is similar to another installation and only some new parameters are required.

Several files can be deleted and the software will automatically create new ones. The following files can be deleted:

- (a) c:\sitedata\datab\hydraipt.ptr  
c:\sitedata\datab\hydraipt.dat

Delete the above as a pair and on the next program load a new empty camera and alarm database will be created. Note: This operation will cause the program to take up to a minute to load the first time; all subsequent loads will be at normal speed.

- (b) c:\sitedata\datab\resident.dpt  
c:\sitedata\datab\resident.dbr

Delete as a pair. On the next program load an empty resident will be created. The first reload may take up to a minute.

- (c) c:\sitedata\kiss\contdef.cnf  
c:\sitedata\kiss\permdef.cnf

Deleting these two files removes all the hub controller configurations and permission levels.

- (d) c:\sitedata\kiss\kislist.cnf

To speed up KISS token reporting and for searching for tokens in the database, the software keeps a high-speed look-up list for all tokens, 'kislist.cnf'. If for any reason this list gets damaged, then tokens will not be found, or reported in the wrong database positions. It is harmless to delete this file as the program will re-build it on start-up and create a new one from existing database entries. The first reload may take about half a minute.

## AQUARIUS SYSTEM

### AUTOMATIC BOOT INTO AQUARIUS

#### Autoexec.bat

Most systems are set for automatic 'boot' into Aquarius. The **autoexec.bat** file (found in the root directory C:\>) should contain the following three lines at the end of the file:

```
cd newhy  
call tbenv y  
hy
```

The path details should also have been amended for later versions of the **datback.bat** file to read:

```
PATH C:\DOS;C:\NEWHY;
```

#### Tbenv.bat

The **tbenv.bat** file should contain the following two lines to load the touchbox drivers. Note the special command syntax which is different from the 5500 system.

```
c:\newhy\drivers\tbdriver /i:10 /a:3e8  
c:\newhy\drivers\touchbox 7000 I
```

## AQUARIUS SYSTEM

### CONFIGURING AN AQUARIUS CONCIERGE SYSTEM COMPUTER

1. In the 'System Configuration' screen, change the number in the **Main Screen** box to 17.

In the 'Comms Configuration' screen enter the port number 4 in the **Aquarius/Gemini Port** box and in **Baud Com 4** enter the baud rate of 4800. If a KISS management reader is included on the system, the **KISS Management Port** box should be set up as 5 and **Baud Com 5** as 1200. All unused com ports and baud rates **must** be set to zero. When all the ports have been configured, the program **must** be exited and re-entered to set the new port settings.

In the 'Aquarius Configuration' screen the number of blocks on the system **must** be set as 6 (regardless of how many blocks are on the system) in the **Number Build Boxes** cell.

2. In the 'Set Hub Controllers' screen, change the **Group** and **Cont Num** boxes as necessary so that starting from page 1, each page is set-up for each controller in turn on Group 1, followed by each controller for Group 2, etc. For each controller page set-up, the **Type** box in the top left corner must be entered as 2 and ports 1 to 16 configured as shown below from a 'Hub Configuration Pre-commissioning Report' supplied by Commissioning.

**Type** is the hardware device connected to the port, which will be one of the following:

- 102 = KISS reader
- 4 = Door entrance panel
- 5 = Apartment handset

**Door** is a unique number given to each door. It only needs to be entered when the **Type** is a KISS reader (102) or an entrance panel (4). If there is a KISS reader and an entrance panel connected to the same door and therefore both share the same door number, then the door number should only be entered for the KISS reader.

**Record** is a record number allocated in the Input Configuration database, used to provide additional information on a door for audio switching, for example. For entrance panels and KISS readers this record is the door record (record numbers 2601 upwards).

3. In the 'Input Configuration' screen enter the records that have been allocated in 'step 2' for entrance panels (KISS readers do not require records to be configured). For each record the following boxes must be configured:

- Remote Port = the line input number of the panel on the hub controller
- Remote Module = the controller number (address)
- Remote Building = the building (group) number
- Network = normally 1, unless a distributor board is being used
- Title = the name that the door is known by, e.g. 'Door 1', 'Front Door', etc.



## AQUARIUS SYSTEM

### CONFIGURING AN AQUARIUS CONCIERGE SYSTEM COMPUTER (contd)

4. In the 'Resident Database' screen enter the apartment number and building number on each page.

**Note:** Records 1 - 100 are normally reserved for master tokens and special functions, so normal practice is to enter 'Block 1 Apartment 1' at record 101, 'Block 1 Apartment 2' at record 102 etc. and then 'Block 2 Apartment 1' from record 201, etc. For each apartment enter the 'Controller Number' and 'Line Number' as shown on the 'Hub Configuration Pre-Commissioning Report' supplied by Commissioning.

5. In the 'Set Building Names' screen enter each building's name.

# AQUARIUS SYSTEM

## TOOLS



On the main screen the Tools button may be touched to call the 'Tools' screen in order to edit the system settings. Due to the power that may be exerted over the system via this button, some of these buttons may be password protected.

Toolbox Screen									Quit
<b>General</b>									
	<b>About</b>	<b>Inp. Data</b>	<b>User Data</b>	<b>Icon Dir.</b>	<b>Printer</b>	<b>Back/Res</b>	<b>Passwds</b>	<b>Events</b>	
<b>System Configuration</b>									
	<b>Commus</b>	<b>Network</b>	<b>Alarm Int</b>	<b>Graphics</b>	<b>Sys Logs</b>	<b>Modern</b>	<b>User Tiles</b>	<b>Names</b>	
<b>Hydra</b>									
	<b>Hydra 1</b>	<b>Hydra 2</b>	<b>Hyd Aq</b>						
<b>Aquarius</b>									
	<b>Set Hubs</b>								
<b>Aquarius Configuration</b>									
	<b>Concierge</b>	<b>Trades</b>							
<b>KISS</b>									
	<b>KISS Sys</b>	<b>Perms</b>							
<b>KISS Configuration</b>									
	<b>Profile</b>								

### System Configuration

Used to set configuration details for the system, such as setting system times, alarm tones and the which systems are required (Hydra, Aquarius etc).

### About

Displays information about the system configuration

### Inp. Data

Calls an input configuration database used to set up records and details for multiplexors, cameras, alarms, doors, buildings and other input devices

### User data

A database containing token details and their permission levels

### Icon Dir.

Displays all the currently available Hydra, Aquarius and User icons along with their names for use in setting up an alarm database

## AQUARIUS SYSTEM

### TOOLS (contd)

<b>Printer</b>	Accesses a screen from where the operator may print databases, file logs, etc.
<b># Back/Res</b>	Allows the operator to save or restore databases to and from floppy disks or the hard drive.
<b>Passwds</b>	Used to set passwords and their permission levels for the system
<b>Events</b>	Used to set timed events (eg to set doors to open and close at specific times/days).
<b>Comms</b>	Used to set up Comms configuration, such as baud com ports, Aquarius, Hydra, Kiss management, Aegis and modem ports etc.
<b>Network</b>	Used for network tests. Screen not implemented
<b>Alarm Txt</b>	Used for alarm text. Screen not implemented
<b>Graphics</b>	Used to set the standard graphic display on the operator's main screen
<b>Sys logs</b>	Screen not implemented.
<b>Modem</b>	Screen not implemented.
<b>User Titles</b>	Used for setting up user titles. Screen not implemented
<b>Names</b>	Used for entering block names.
<b>Poll Tables</b>	Used to set the board addresses and connections for Hydra boards
<b>* VCR</b>	Calls a screen which simulates the control panel of a video recorder for directly controlling the VCR from the touch-screen
<b>* UPX</b>	Calls a screen which simulates the control panel of a multiplexor for directly controlling the multiplexor from the touch-screen
<b>Set Hubs</b>	Used to set up each hub controller and its line input details.
<b>Concierge</b>	Calls the operator's main screen.
<b>Trades</b>	Screen not implemented.
<b>Kiss Permissions</b>	Used to set permission levels for each door.
<b>Kiss System</b>	Calls the KISS screen for monitoring fob transactions and uploading Tokens from the database to the controller.

\* Not implemented on the Aquarius system

# Only implemented on software versions 4.20.00 upwards

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## AQUARIUS SYSTEM

### GENERAL SYSTEM CONFIGURATION SCREEN (contd)

4. **Poll Slow Down:** For software engineering purposes only (should always be set to 2).
5. **Transaction Log Number:** Each file log is assigned a unique number - this displays the number of the last file log used (for engineering purposes only).
6. **Tone ON and Tone Pitch:** Defines the tone period and the pitch for the two standard alarm tones on the system.
7. **Activity Count:** Defines the number of activity prompts before logging no response.
8. **Camera Start, Alarm Start, Direct Start:** Defines the first record number that may be used for camera and alarm records respectively.
9. **Site Path:** Displays the current site path being used for the configuration files.
10. **Main Screen:** Defines the first (main) screen to appear after the log-in screen.
  - 3 = Hydra main site plan
  - 15 = KISS main screen
  - 17 = Concierge operator screen
11. **Display Touch:** For software engineering purposes only.



## AQUARIUS SYSTEM

### COMMS SYSTEM CONFIGURATION SCREEN (contd)

The data link connector for COM4, COM5 and COM6 is a 9-way D-type connector with the pins connected as follows:

Pin 2 = TXD  
Pin 3 = RXD  
Pin 5 = 0V

In addition, pins 4, 6 and 8 must be linked together for null modem.

If necessary, the data link to Hydra may also be connected to COM2. This requires a 9-to-25 way adaptor.

Hydra:	4800 Baud / 1 Stop / No Parity / 8 Data
PAC reader:	4800 Baud / 7 bit odd parity.
KISS reader:	1200 Baud / 1 Stop

NB KISS will change to 9600 baud in the future.

2. **Comms Trace:** Allows a telemetry trace to be displayed on the current screen. This overwrites the screen non-destructively at co-ordinates x=20, y=20. The modes of operation are:

0 = Trace off (default)  
1 = Trace all Hydra data  
2 = Trace Hydra alarms data  
3 = Trace all concierge data  
5 = Trace all 5500 data  
7 = trace all Aegis data





## AQUARIUS SYSTEM

### AQUARIUS SYSTEM CONFIGURATION SCREEN (contd)

3. **Enable Alarms:** This **must** be set up in order to allow the concierge system to receive alarms in the call stack from the hardware connected to it (entrance panels, KISS readers and apartment phones). Often these are not required from some of these devices but can be a real nuisance if they are not configured. The alarm enable can be set up as follows:

- 0 = No alarm enabled (default)
- 1 = KISS reader only
- 2 = Phones only
- 3 = Panels only
- 4 = Phones and panels
- 5 = Phones, panels and KISS readers
- 6 = Panels and KISS readers
- 7 = Phones and KISS readers

For details on setting up incoming alarms from a door panel or KISS reader, see 'Input Configuration Database' (page 23). Phone alarms are set up in the residents' database screens by entering the name of the alarm icon in the box **Alarm Icon** (see 'Residents Database', page 16).

3. **Set Up Transfer:** This will pop up a panel allowing transfer mode between buildings to be set up.

4. **Contact Sense:**

5. **Entry Delay:**

6. **Slave Mode:**

7. **Stack Reminder:** The number of seconds between alarms reminding the operator that an alarm is waiting in the call stack on the concierge screen.

8. **Building Mode:** Defines what information is displayed in the building group boxes on the concierge and KISS screens.

- 0 = no display (default)
- 1 = display audio channel reporting only
- 2 = display hub status reporting only
- 3 = display both audio channel and hub status reporting

The building group boxes will always display the building name and (in any mode other than 'full intercept') panel to apartment call reporting.





## AQUARIUS SYSTEM

### KISS SYSTEM CONFIGURATION SCREEN (contd)








4. **ASCII Input Mode:** Defines what is reported in the scrolling window at the bottom of the concierge screen.

- 0 = No report (default)
- 1 = Report KISS transaction messages to the concierge screen.
- 2 = Report PAC transaction messages to the concierge screen.
- 3 = ASCII input to the concierge screen : do not write to log file.
- 4 = ASCII input to the concierge screen : write log input to 'monitor.log' file.



# AQUARIUS SYSTEM

## RESIDENTS DATABASE

 Next	Flat Number	Block Number	Hub Number	Port Number	Genini Number
	Alarm 1 Icon	Alarm 2 Icon	Alarm Mode	Alarm Record	Tenant Flag
 Back	Tenant Name 1		Tenant Name 2		
	Tenant Name 3				
FLAT Search	Home Phone	Work Phone	Doctor Phone	Contact Phone	
NAME Search	Floor Number	Date of Birth	Doctor Name	Contact Name	
RECORD Search	Pin Number		Tagging ??	Record Number	
 Fob Find	Notes				
	Notes				
	Notes				
 Print   Keys   Help   Exit	Fob Number	Label	Permission	Tag	
	Fob Number	Label	Permission	Tag	
	Fob Number	Label	Permission	Tag	
	Fob Number	Label	Permission	Tag	
	Fob Number	Label	Permission	Tag	
	Fob Number	Label	Permission	Tag	
	Fob Number	Label	Permission	Tag	
	Fob Number	Label	Permission	Tag	
	Fob Number	Label	Permission	Tag	
	Fob Number	Label	Permission	Tag	



The Residents Database screen is accessed by the User Data button on the toolbox screen.

In addition to the user-defined information such as resident names and token details (see the 'Concierge Operator's Manual'), the following information may need to be entered in the dark blue boxes at the top of the screen to configure the system:

### 1. Apartment Number and Block Number

These numbers **must** be entered for each apartment record in the database. They are used to verify that a call from the concierge is to a valid apartment number. Normal practice in-house is to enter Block 1, Apartment 1 at record 101, Building 1, Apartment 2 at record 102, etc. and then Building, Apartment 1 at record 201, and so on. This makes record numbers simpler to remember as the first digit is then the building number, and the last two digits are the apartment number.

## AQUARIUS SYSTEM

### RESIDENTS DATABASE

#### 2. Hub Number and Port Number

These numbers **must** be entered for each apartment record in the database. They are used to provide the resident's address when a call is made from a apartment to the concierge screen.

#### 3. Gemini Number

This may be used with networked Gemini systems. For each apartment in the database enter the line input number minus one in this box. The line number minus one is entered because on a Gemini system, apartment handsets cannot be attached to line input 1 and therefore the apartment number will be one less than its line input number, i.e. Apartment 1 will be connected to line input 2, and so on. Entering a number in this box will override any 8058 configuration in the **Hub Number** and **Port Number** cells.

#### 4. Alarm 1 Icon and Alarm 2 Icon

These are only used if the system is configured to receive alarms from an apartment handset. In the cell **Alarm 1 Icon** enter the name of the icon (the extension .System Computer is not required) that is to appear on the concierge call stack when an alarm is received from the apartment. For a hybrid handset two alarm inputs are available and a second icon name may be assigned in the box **Alarm 2 Icon**.

#### 5. Alarm Mode

The number entered here defines the mode of operation of **Alarm Record** (see below). The modes of operation are:






- 1 = Execute record immediately when an alarm is received. This mode must be used with care as it can result in camera switching (for example) while calls or other operations are being handled by the operator.
- 2 = Execute record when accepted from the call stack (the recommended mode).
- 3 = Disable all alarms for this particular resident record.

#### 6. Alarm Record

This is the number of a record allocated in the Input Configuration database to perform certain actions when triggered by a tagged token or by a apartment alarm. Note that several resident records (the number is unlimited) will normally share an alarm record. The normal use would be a camera switch to a local camera. If **Alarm Mode** is set to 0, no alarm record switching will take place.

# AQUARIUS SYSTEM

## HUB CONTROLLER SCREEN

Type	Cont Num	Group	Next 	Back 	Page	Help 	Quit 	Read 	Reset
			Records	Initial	Port	Type	Cont	Records	Default
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				
					16				
					17				
					18				
					19				
					20				
					21				
					22				
					23				
					24				
					25				
					26				
					27				
					28				
					29				
					30				
					31				
					32				



The Set Hub Controllers screen is accessed by the Set Hubs button on the toolbox screen.

This screen is used to set up each hub controller on the system and to define the hardware that is attached to each of its line inputs.

There are 159 pages in this menu (nominally starting with Controller 1, Group 1), each representing a controller with 32 ports. Before configuring the controllers the layout for the entire site, including the group number allocations, must be available.

The **Type** box in the top left corner indicates the type of system served by the controller:

- 5000 = 5500 system
- 2 = OptimR system (Gemini/Aquarius/KISS)

This number **must** be set for each configured controller.



## AQUARIUS SYSTEM

### HUB CONTROLLER SCREEN (cont)

**Cont Num** This is the number of the hub controller board. Each controller in a block or group has a unique number, starting at 1.

**Group** The number of the group or block (i.e. the number set on the 8058 switches)

The numbers in the **Group** and **Cont Num** boxes may be changed from the default values, so that once all the controllers for Group 1 have been configured, the next page may be changed to Group 2, Controller 1, and so on.

For each port on a hub controller the following columns should be filled in (unless there is nothing attached to the port). Note that although provision is made for up to thirty-two ports, the current hubs only have sixteen.

**Type** The type of hardware device connected to the port which will be one of the following:

- 102 = KISS reader fitted
- 4 = Door entrance panel fitted
- 5 = Apartment handset fitted

**Door** A unique number is given to each door on a site. It only needs to be entered when the **Type** is a KISS reader (102) or an entrance panel (4), but if both share the same door number then the door number should **only** be entered for the KISS reader. For large sites there may be a number of doors grouped together, e.g.

- For Group 1, numbers 100 - 199
- For Group 2, numbers 200 - 299, etc.

Any numbering scheme can be used, but it is normal to number the doors from 1 upwards.

**Record** This is a record number allocated in the Input Configuration database (not the resident database), primarily used to provide additional information on a particular door or to set up alarms for the device connected to the port (it may be left blank if not required).










For an entrance panel (**Type** = 4), the record is the record number of the door (from -2601 upwards) in the Input Configuration database. KISS readers (**Type** = 102) are normally treated as a door and assigned a door record number. If a door has both an entrance panel and a KISS reader fitted, they may share the same record number. For details on setting up the records in the database, see 'Input Configuration Database' (page 21).

To check the actual port connections (if any), touching the **Read** button will read each port on the controller in turn and display the type of hardware connected to each in the **Actual** column.



# AQUARIUS SYSTEM

## INPUT CONFIGURATION DATABASE

Input Set Up				Record Number	
 Back	Remote Port	Remote Module	Remote Node	Remote Block	Network
 Next	Door Number	Hold Off	Title	Type	Active Life
 Search	Icon 1	X Position	Y Position	Input Mode	Screen
 Door	Icon 2	X Position	Y Position	Output Mode	Exit Record
 Block	Icon 3	X Position	Y Position	Fire Group	Open Delay
 Help	UPX Camera	UPX Port	UPX Module	Net	UPX string
 Check Links	UPX Camera	UPX Port	UPX Module	Net	UPX string
 Keys	UPX Camera	UPX Port	UPX Module	Net	UPX string
 Out	Chain Recs				
	Function Call	PCX File	screen		



The Input Set Up screen is accessed by the **Inp. Data** button on the toolbox screen.

The database allows record numbers to be assigned to all input devices on the system and input details are entered to tell the system what actions (if any) are to be taken on switching to the appropriate record.

## AQUARIUS SYSTEM

### INPUT CONFIGURATION DATABASE (cont)

#### DOOR RECORDS

Entrance panels are allocated to the door records which start at record number 2601 and can be accessed directly by touching the **Door** button. Each building has provision for up to ten doors, and this number is fixed; thus the first door on Building 2 must be record 2611, on Building 3 record 2621, etc. The record is filled in as follows:

<b>Remote Port</b>	the line input number of the door entrance panel on the hub controller
<b>Remote Module</b>	the board address number of the hub controller it is connected to (as set on the 8058 switches)
<b>Remote Building</b>	the number of the building that the panel is connected to
<b>Network</b>	network number of the system (usually 1 unless an 8053 or 8101 distributor board is being used)
<b>Title</b>	the name the door may have been given (e.g. 'Main Entrance', 'Door 1', etc.). This cell should <b>not</b> be left blank as it is used to provide the name for the door select panel on the concierge screen.

KISS readers are normally also allocated to the door record numbers. Unlike entrance panels they do not need any ports or modules setting up: the only box that may need to be entered is the **Title** box to give the door a name if necessary.

#### BLOCK AUDIO SWITCHING

If block audio switching is involved on the system, the building details must be entered in the building records. Building records start at record number 2901 and can be accessed directly by touching the **Building** button. The building name may be entered in the **Title** box if required.

The **Keys** button provides an on-screen keyboard.

## AQUARIUS SYSTEM

### INPUT CONFIGURATION DATABASE (cont)

#### ALARM MONITORING

If the system includes alarm monitoring the alarm details are normally set up from record number 601 or 701 onwards. Fill in the input configuration details in the green boxes as follows:

<b>Remote Port</b>	the channel number on the alarm board which the alarm is connected to
<b>Remote Module</b>	the board address number of the 8018/8076 board as shown in the poll tables
<b>Network</b>	the channel number on the 8-way distributor board (System Computer B 8053 or 8101) if one is being used, else this will always be 1
<b>Type</b>	the type of alarm, which will be one of the following:  1 = Hydra alarm - the alarm icon is cleared when the alarm is cleared 2 = Hydra alarm - the alarm icon is cleared when accepted by the operator 4 = reserved for special 5500 alarms 5 = reserved for special 5500 alarms 6 = report door alarms from KISS only to the KISS main screen
<b>Icon 1</b>	name of the icon that is to be displayed on alarm
<b>Output Mode</b>	defines the type of switching, as shown below:  1 = Hydra only - switch record as soon the alarm is received 2 = Hydra only - switch record when the alarm icon is accepted 3 = Aquarius only - switch record for RTE and KISS

All the other boxes may be left as they are. The following may need to be filled in depending upon the type of system:

<b>Fire Group</b>	Only used for Aegis to report a fire group to the System Computer.
<b>Hold off</b>	A delay in seconds before this alarm is activated. If the alarm clears during the hold off period the operator is not informed. It is mainly used for door alarms which only need to be triggered after a delay. This delay takes precedence over any other actions.
<b>Open Delay</b>	Delays reporting door alarms to the call stack for the number of seconds entered into the box. If the alarm clears inside the delay period the alarm will be cleared from the system and not reported to the operator.



# AQUARIUS SYSTEM

## ABOUT THE SYSTEM

Free Dos Memory	
Free Protected Memory	
Con 1	Mouse
Con 2	
Con 3	Touch Screen
Con 4	
Con 5	
Con 6	
Loaded Def Files	
	CLOSE



Touching the 'About' button on the tools screen pops up a panel displaying information about the System Computer set-up, such as the memory left and the port connections and data rates. These configuration details **cannot** be edited from here.

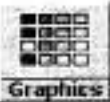
# AQUARIUS SYSTEM

## SET PRIMARY GRAPHICS

### CORE DEFINITIONS

Quit

Stack XI	Stack YI	Stack XDIM	Stack YDIM	Stack TX Col	Stack BK Col										
0	97	62	57												
Dialog XI	Dialog YI	Dialog XDIM	Dialog YDIM	Dialog TX Col	Dialog BK Col										
192	187	206	54												
Tools XI	Tools YI	Tools XDIM	Tools YDIM	Tools TX Col	Tools BK Col										
447	97	63	57												
Current XI	Current YI	Current XDIM	Current YDIM	Curr X Col	Curr BK Col										
195	97	62	61												
Alarm Main XI	Alarm Main YI	Alarm Sec XI	Alarm Sec YI												
590	1	590	1												
Dialosl XI	Dialosl YI	Dialosl XDIM	Dialosl YDIM	Dial 2 BK Col	Dial 1 BK Col										
192	160	50	50	0	2										
Conc Tx For	Conc Tx BK	Kiss Tag Tx	Kiss Tag BK	Kiss Ac Ok Tx	Kiss Ac Ok BK										
4	15	2	15	4	15										
Kiss Unkn Tx	Kiss Unkn BK	Kiss Nop Tx	Kiss Nop BK												
2	4	1	5												
Op Box TX	Op Box BK	Op Box ERB	Op Box Warn												
4	7	4	5												
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15



The Set Primary Graphics screen is accessed by the Graphics button on the toolbox screen.

The 'Core Definitions' (Set Primary Graphics) screen sets the standard positions of the icons and dialogue boxes that appear on the concierge operator's main screen, and also the text and background colours.

This screen will normally only be of importance when updating System Computer's with software versions below Version 3.56. Updating the System Computer in these circumstances will cause the icons to appear in the incorrect positions on the concierge operator's screen. To correct this, enter the 'Core Definitions' screen and change the values in each box to those shown in the panel above. These values will not be affected by future software version updates and will therefore only need changing in exceptional circumstances after Version 3.56.





## AQUARIUS SYSTEM

### POLL TABLES (contd)

#### ALARM MONITORING

When alarm monitoring is implemented on the system the alarm inputs can be set up by touching the board address number for the 8018 or 8076 board. A menu will appear that lists all 32 inputs and the following can be set for each input:

- Type**            The default value for this cell is 0 (standard Hydra alarm reporting). To set the board up to report Aquarius alarms to the concierge operator's screen, set **Type** to 2.
- Contact Mode**   Determines whether an alarm is generated by an open circuit or by a short circuit
- 1 = alarm on open circuit
  - 0 = alarm on short circuit
- Set Mode**        Defines the current user status of the alarm.
- 0 = alarm disabled
  - 1 = alarm enabled
  - 2 = alarm accepted

NB This would normally be a user function via a graphics display and hence this column on a set-up system would reflect the operational status of the system.

- Record**           Enter the record number of each alarm as set in the input configuration database (alarm records normally start at record 601 or 701). The alarm details should already have been set up in the input configuration database; for details of how to set up alarms see "Input Configuration Database". Once a record number is entered in the poll tables a link is automatically established by the software to the input configuration database record.

**WARNING:** this linking will overwrite any existing hardware data in the record.

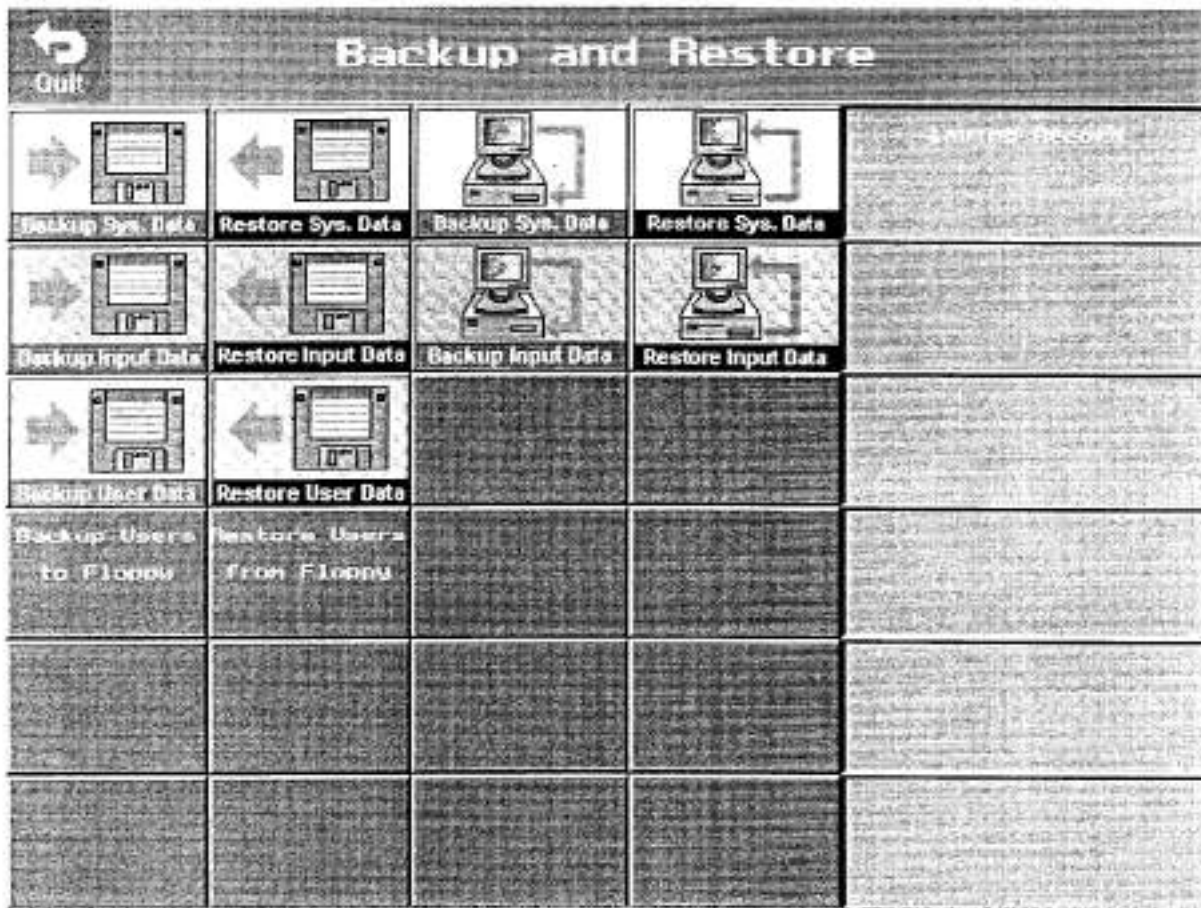
The boxes in the **Status** column display the status of each alarm:

- Green            = not in alarm
- Red              = in alarm as set by the contact mode
- Yellow          = in alarm but accepted by the operator
- Grey             = disabled

**NB:** This display is only updated when an alarm changes state. Prior to an alarm changing state, it will reflect the **current** status. Changing the contact mode does **not** show any effect until an alarm changes state.

# AQUARIUS SYSTEM

## BACKUP/RESTORE



Touch the **Backup/Restore** button on the 'Tools' screen to access this screen.

The operator can backup or restore various files on the system simply by touching the appropriate box on the screen.

## AQUARIUS SYSTEM

### BACKUP/RESTORE (contd)



This button backs up the resident database to a floppy disk, along with controller set-ups, KISS permission levels, poll tables and the system configuration set-up.



This button restores the resident database from a floppy disk to the System Computer, along with controller set-ups, KISS permission levels, poll tables and the system configuration.



This button backs up the resident database to the hard drive, along with controller set-ups, KISS permission levels, poll tables and system configuration set-up.



This button restores the resident database from the hard drive, along with controller set-ups, KISS permission levels, poll tables and system configuration set-up.



This button backs up the input configuration database to the floppy disk.



This button restores the input configuration database from the floppy disk to the System Computer.



This button backs up the input configuration database to the hard drive.



This button restores the input configuration database from the hard drive to the System Computer.

The **Saving Record** box will display details of the backup or restoring process as it progresses and display the message **Backup Complete** or **Restore Complete** when finished.

## AQUARIUS SYSTEM

### PROBLEMS

#### Touch screen initialises at start up but only the mouse works

Check that the configuration screen does **not** have a baud rate defined for COM3, the touchscreen port, otherwise the software will assume it is a Aquarius communications port and divert interrupts.

#### Slow between touches/lost commands

**Note:** The software 'damps' most touch operations with a delay of one or two seconds between each touch. This is to prevent a second touch being actioned by mistake if, for example, a screen change results in a new hot spot in the same place under your finger.

Check all boards are being polled correctly (poll tables) and that the polling speed is 'normal', i.e. no long delays. If a board is hanging the system then:

- (a) Responses will be slow
- (b) Multiple commands may not work at all
- (c) Some command can be lost
- (d) An entry in the database will be directed at a non-existent board

#### Cannot calibrate the screen

- (a) Touchbox is touchy about driver version numbers. Current version is 4:04a. This can be confirmed by doing a dir on the driver: the version number is the time.
- (b) Touchbox does not seem to like Touchbox itself being loaded with the argument '1' at the end when being calibrated. Re-load without the '1' for calibration only. Aquarius must have Touchbox loaded with the '1' argument.

#### Building not on-line (building box red)

1. Check the data link is plugged into the port specified in the 'System Configuration' screen: this will normally be COM4.
2. Check that the baud rate for the Aquarius com port (usually COM4) is set to 4800 and that COM1, COM3 and any other unused ports and their respective baud rates are set to zero. If any changes are made to the port settings, the program **must** be exited and re-entered in order to set the new values. The number of buildings on the system must also be entered in the **Number Build Boxes** cell.
3. Check that all the hub controllers configured in the 'Set Hub Controllers' screen have the **Type** box in the top left corner set to 2.
4. Check that the DIP switches on the 8058 board are set for the correct hub address and that the link at the bottom of the board, near the data connection terminal buildings, is set to 422.

If the building box still does not respond, then there is probably a problem with the hardware and boards may need replacing.

## AQUARIUS SYSTEM

### PROBLEMS (contd)

#### Building group box shows hub status 0

Check 8034 board address is set correctly: if the problem persists the board may be faulty and need replacing.

The hub address and type are set using the eight-way switch at the bottom left of the controller. For an Aquarius system, switch 8 must be set to the left, and the hub address set using a combination of the other seven switches set to the left or the right as shown in the table below:

Board Address	Switch				
	1	2	3	4	5
1	L	R	R	R	R
2	R	L	R	R	R
3	L	L	R	R	R
4	R	R	L	R	R
5	L	R	L	R	R
6	R	L	L	R	R
7	L	L	L	R	R
8	R	R	R	L	R
9	L	R	R	L	R
10	R	L	R	L	R
11	L	L	R	L	R
12	R	R	L	L	R
13	L	R	L	L	R
14	R	L	L	L	R
15	L	L	L	L	R
16	R	R	R	R	L
17	L	R	R	R	L
18	R	L	R	R	L
19	L	L	R	R	L
20	R	R	L	R	L
21	L	R	L	R	L
22	R	L	L	R	L
23	L	L	L	R	L
24	R	R	R	L	L
25	L	R	R	L	L
26	R	L	R	L	L
27	L	L	R	L	L
28	R	R	L	L	L
29	L	R	L	L	L
30	R	L	L	L	L

## AQUARIUS SYSTEM

### PROBLEMS (contd)

#### No calls from panel to flat

1. If panel displays **ERROR!** the privacy switch on the apartment phone may be switched on.
2. If panel displays **BUSY!** with an 'engaged' alarm tone, the handset in the apartment has not been replaced properly.
3. If panel displays **CALLING** and the display on the 8058 board shows the correct hub and flat being called, then the line card is not plugged in or faulty. If the problem still occurs with a replacement line card, then the hub controller may be faulty and need replacing.

#### Hub controller does not initialise when uploading tokens

Check that the controller has at least one KISS reader set up in the 'Set Hub Controllers' screen.

## **AQUARIUS SYSTEM**

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