# SmartGraphics HD



Operators Manual
MAN 3023

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#### 1 About This Manual

#### 1.1 Introduction

**SmartGraphics** is a Graphics system that provides monitoring and control of the fire detection and evacuation systems at a site.

**SmartGraphics** is a tool which provides important information in the event of a fire and makes this information readily available to emergency services.

In addition **SmartGraphics** provides facilities for testing and maintenance of the fire detection and evacuation system.

#### 1.2 Purpose

The purpose of this manual is to provide guidance and instruction to the Operators of the **SmartGraphics** System.

#### 1.3 Scope

The information within this manual is only available to and for the use of personnel engaged in the installation, maintenance and operation of the *SmartGraphics* System.

#### 1.4 Symbols

important operational information

Note: Configuration considerations



Observe antistatic precautions

#### 1.5 Hardware

**SmartGraphics** requires a communication connection to the fire detection and evacuation system. This connection can be serial (RS232 or RS485) or via Ethernet. Please refer to the installation guide MANxxxx for further information.

The system may be used with a either a mouse or a touch screen but not both at the same time. This manual is written as if the user were using a mouse, if a touch screen is being used substitute "press" where "click" appears.

#### 1.6 Software Installation

**SmartGraphics** is pre-installed on the supplied PC. Awareness training is available for **SmartGraphics**, which includes installation on a Windows PC, backing up and restoring projects and so forth.



#### 2 Getting Started

This Manual assumes that the user has access to the SmartGraphics demonstration mode as it is used as the basis for our definitions and operating instructions. Should the Demonstration mode not be available all controls and definitions still apply and virtually any project can be used to demonstrate most of the operator requirements.

#### 2.1 The Site Map or Start-up Page

The site map is the first screen to be displayed when the system is running, it shows a map of the whole site which is split into several areas. From this map selecting an area causes the graphics screen to go to the next zoom level.

The system is configured to have multiple levels of zoom. A minimum of two levels of zoom is normally provided. Each zoom level is a separate map, and these maps are defined by the customer prior to the system being configured.

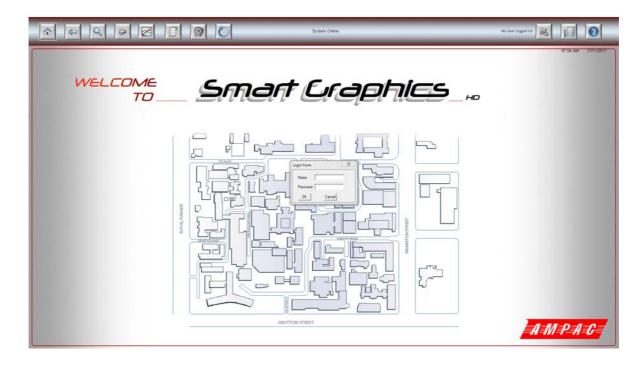


Figure 1: The Start up Page with Log In, Legend, Buttons and Login Form

#### 2.2 Login Form



Before the user can access any of the system functions they are required to log in. Clicking on the Log In Icon will bring up the Login Form



Figure 2: Login Form

Using the Login Form, the user can then enter their name and password. In the case of the Demonstration Mode the user will be prompted through the process.

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#### 2.3 Access Levels

There are three levels of log-in in the *SmartGraphics* package. These are;

Level 1 (General) allows access to view maps.

Level 2 (Operator) allows access to all facilities except to erase logs and maintain passwords.

Level 3 (Engineer) allows full access to the system. (Default = engineer / password)

#### 2.4 Default Icons

The following are the main icons that appear across the top of the status maps.



Home Button



Print current map



Silence alarms



Log In / Out User



Display previous page



Display current system status



Master reset



Display Building/Contact Information



Search for a device



Display log page



**Engineer Tools** 



Legends

Refer to Section 4 for further detail on the main icons.



#### 2.5 Moving around the Project.

The operator can move around the site and examine buildings within the project, by clicking on the outline of the building. The next map that is displayed is the detail on the selected building. These map links are setup when the project is created.

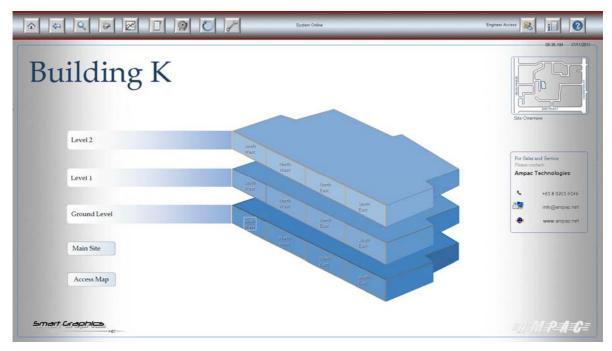


Figure 3 Typical Building Map

By selecting one of the areas shown within each level, the following area map is displayed

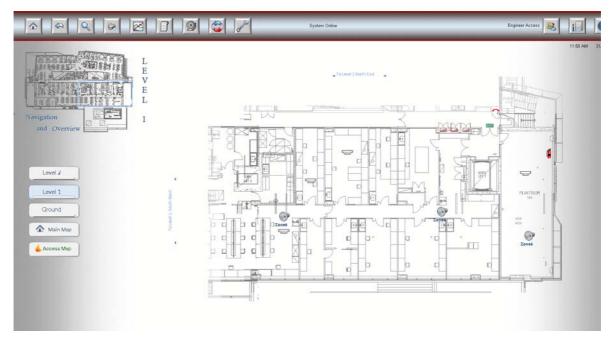


Figure 4 Area Map

Considering each section of the area map



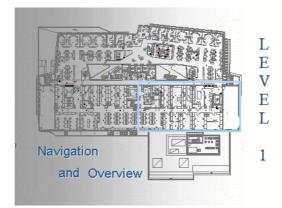


Figure 6 Key Map

**Key Map:** Shows the Overall Level Site Map and allows the User to click on an area to highlight the map required. The area currently displayed is shown in blue outline.



Figure 7 Navigation Buttons

**Navigation Buttons:** Allows you to navigate between layers. The area that is under current view will be highlighted. The **main map** selection navigates back to the main map, and the **access** displays the access screen. Refer to section xx.xxx



Figure 8 Floor Map

**Floor Map:** Display the User's current choice of Map. The map also has links which will take you directly to the adjoining area.



#### 3 System Operation

#### 3.1 Overview

When SmartGraphics is run, the first screen to be displayed is the site map (refer to section 2.1). It is a site overview and at a glance you can tell the alarm status of every area on the site. To make this usable, the site is divided into sections. By clicking on the name, representative of a sub area or specific map area, that area is then navigated to and shown in enlarged detail. Each section may have more than one level, or floor. From every sub- area you should be able to see the activity on the other areas of that level or sub area and navigate directly to them and to every other area on site, and back to the main site map.

On the main site map, the background colour of any sub area will show its alarm status- red for alarm, orange for pre alarm, yellow for fault and blue for isolate. These status colours are consistent with devices and states throughout the Smart Graphics.

The following map shows the building detail for building K. Building K consists of 3 levels (ground, level 1 and level 2), with each level broken into 4 areas. One of the areas on the ground floor has at least one detector in alarm – refer to the section highlighted in Red

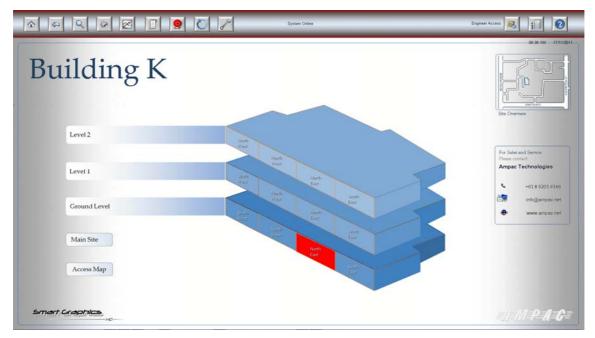


Figure 9 Map Showing Building K

By selecting an area from level 1, the following area is displayed.



#### 3.1.1 Area Map



Figure 10 Level 1 Area Map

An area map usually has three elements.

- Key map
- Navigation Buttons
- Floor Map

#### 3.1.2 Key Map

In the top left there is a key map which shows the overview view of the level and allows the operator to view other areas of the level by clicking the mouse in the desired section. The highlighted portion of the key map denotes the section of the level currently being displayed.

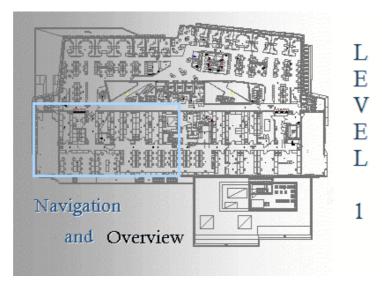


Figure 11Example of a Key Map

If a detector is off normal (isolated, fault, pre-alarm or alarm), then the highlighted portion will be filled in with the appropriate colour corresponding to the condition.

- Blue isolated
- Yellow fault
- Orange pre-alarm
- Red alarm



#### 3.1.3 Navigation Buttons

The navigation buttons are situated on the left hand side of the map and serve two purposes. Firstly they allow the operator to navigate to other levels within the building, and secondly they show the overall status of the level. The following example shows the ground level has detectors that are:

- In alarm (Red)
- Isolated (Blue)
- Fault (Yellow)



Figure 12 Navigation Buttons

The main map button navigates back to the nominated man map for site.

The Access button will navigate to an access map.

#### 3.1.4 Access Map

The access map incorporates information detailing action to be taken in the event of an emergency, such as:

- > Map Reference: The map reference number.
- Location: Tells the user where the map is.
- Brigade Access: Fire Brigade access route.
- > Hazchem Details: Indicating the presence of any dangerous materials in the area
- > Fire Fighting Equipment: Any special equipment in the area.
- Public Egress: The escape routes.

The access map is not part of the standard SmartGraphics $_{HD}$  package. It is an extra which needs to be specified separately.



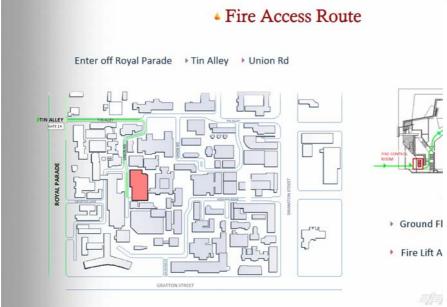


Figure 13 Access Map

#### 3.1.5 Floor Map

The following is an example of a floor map

Each floor map contains interactive and static icons, which reflect the status of the fire detection system, emergency warning system and the location of important items within the building (e.g. fire extinguishers, chemical store and so forth).

Each floor map has an interactive icon for:

- Detector / device connected to the fire system
- · Emergency zone of the emergency waring system
- · Air handling Unit
- Stair Pressuration Fan
- Smoke Spill Fan

These interactive icons will change shape an colour according to their status. Double clicking the left hand mouse button while hovering over these icons then a dialogue box will appear which allows control of the entity. Refer section 3.2

Each floor map also has a number of static icons (which do not change shape or colour), these icons represent fire extinguishers, fire hydrants, fire hose reals, chemical stores and so forth. (These static icons are not part of the standard SmartGraphics<sub>HD</sub> package. It is an extra which needs to be specified separately).



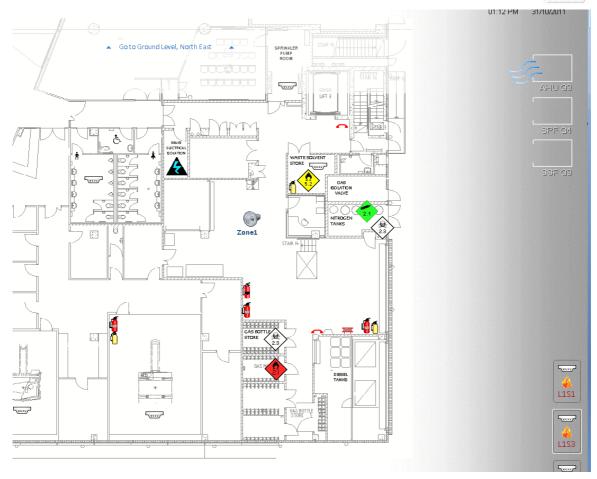


Figure 14 Floor Map



#### 3.2 Icons

#### 3.2.1 Detector / Device Icon

The following are the states of the detector / devices

Icon	Comment	
	Normal	
L1S92	Fault	
L1S92	Isolated	
L1S9 08:57:08 AM	First device in alarm – which shows the seat of the fire. Displays the time of the alarm. The icon is dynamic with the red circle changing diameter	
L1S17 12:33:06 PM	Subsequent device in alarm – showing the time of the alarm	

Commands available – (right click while hovering over the icon)

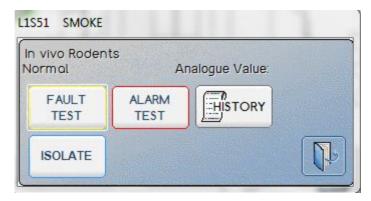


Figure 15 Detector / Device Commands

Fault test places the detector into fault. Condition is latched until a master reset
Alarm test places the detector into alarm. Condition is latched until a master reset
Isolate will set the detector is isolate. If the detector is already isolated, then this will show de-isolate



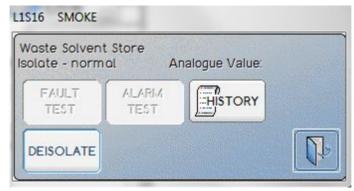


Figure 16 Detector / Device Commands - De-Isolate

If the detector is in alarm, then the following dialogue box is shown:



Figure 17 Detector / Device Commands - Alarm Ack

Which shows an alarm acknowledge command.

History displays the state changes of the detector / device

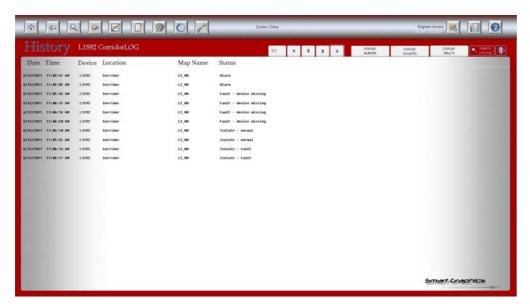


Figure 18 Detector / Device History

#### 3.2.2 Emergency Warning Zone

Icon	Comments
------	----------



	Off – no fault
Zone10	PA selected
Zone10	Alert signal applied
Zome10	Evacuation signal applied



Figure 19Emergency Zone Commands

The emergency zone icon is not part of the standard SmartGraphics<sub>HD</sub> package. It is an extra which needs to be specified separately.

#### 3.2.3 Air Handling Unit

Icon	Comments
AHU G1	Stopped
ED UHA	Running

There are no commands for air handling units.

The air handling unit icon is not part of the standard SmartGraphics $_{HD}$  package. It is an extra which needs to be specified separately.

#### 3.2.4 Stair Pressurisation Fan

Icon	Comments			
SPF G2	Stopped			





Running

There are no commands for stair pressurisation fans

The stair pressurization fan icon is not part of the standard SmartGraphics<sub>HD</sub> package. It is an extra which needs to be specified separately.

#### 3.2.5 Smoke Spill Fan

Icon	Comments
58F G1	Stopped
SSF G1	Running

There are no commands for the smoke spill fans

The smoke spill fan icon is not part of the standard SmartGraphics<sub>HD</sub> package. It is an extra which needs to be specified separately.

#### 3.2.6 Hazardous Chemicals

Icon	Comments	
5.2	Flammable and combustible material store. Doubling clicking on the icon will bring up additional information about the chemical hazard 5.2 = organic peroxides	
21	Flammable and combustible store 2.1 = flammable gases	
OCEP KS 2.1	Gas under pressure store – non flammable 2.1 = flammable gases  Hazard Information  10 x 30kg Chorine Gas	
ORE 23 23	Toxic material store 2.3 = toxic gases	

			CS <sup>HD</sup>
CIMIA	2 D A	- ] =	



		ADVANCED WARNING SYSTEMS
The hazardous chemical i	con is not part of the standard SmartG	Graphics <sub>HD</sub> package. It is an extra which
needs to be specified sepa	arately.	



#### 3.3 Processing Alarms

When the system receives an alarm, it is added to the events log and the system will be optionally configured to display and/or print the floor map upon which the alarm occurred. Refer to section 5.9.4.



Figure 20 Alarm Screen

The above example shows:

- Loop 1 device 9 is in alarm and it is the first device in alarm
- Key map of the ground floor with the floor section highlighted in Red denoting the alarm
- Navigation buttons highlighting an alarm on the ground level
- Smoke Spill fan running
- Emergency warning zone in alert

The first in alarm is displayed across the bottom of the screen.

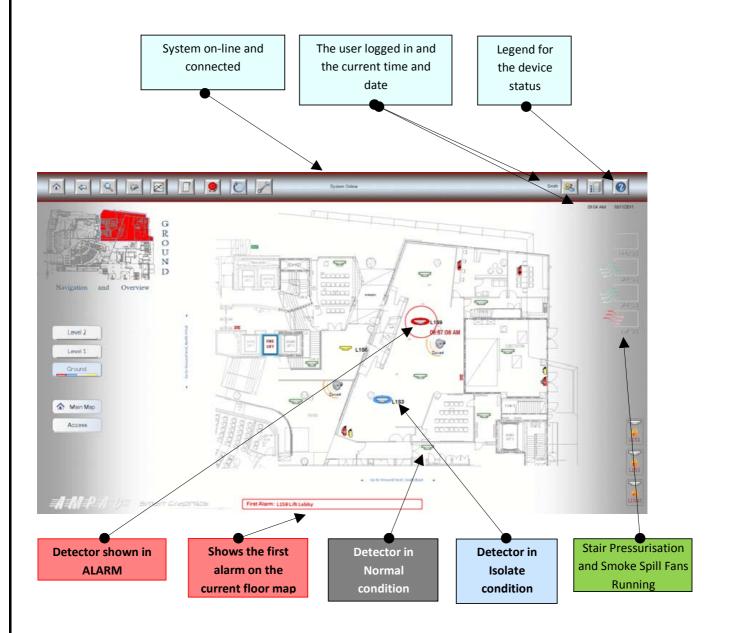








#### 3.4 Summary of a Area Map





#### 4 Main Icons

Once the user is logged on at Level 2 or 3 all Menu Buttons become active and enable the user to access each function at their prescribed level.



Note: 1. The Main Menu functions are only available at either the Operator or Engineer level.

Note: 2. In Demonstration mode all functions are available.

#### 4.1 Home Function



**Home Button:** Clicking once will return you to the Main Site Map. Clicking once again returns you to the Home screen.

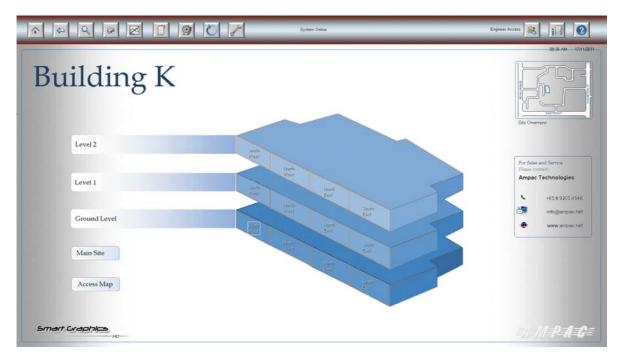


Figure 21: Main Site Map

#### 4.2 Display Previous Page



Display Previous Page: Return to the last page viewed.



#### 4.3 Search for Device



Search for Device: Allows the user to search for a device by Loop Number and Sensor Number.



Figure 22: Device search screen

#### 4.4 Print Current Map



**Print Current Map:** Clicking on the print Map button will print the current screen to the selected printer. (See section 4.9.4 for Printer Setup)

#### 4.5 Display Current System Status



**Display Current System Status:** Clicking the Icon will display the following page.



Figure 23: Current Status

From this window you can select: Display All, Display Alarms, Display Isolates, Display Pre-Alarms and Display Faults via the tabs at the top of the status display area. Each will display the current the status of the panel.

#### 4.6 Display Log Page



**Display Log Page:** Display a Log of Alarm, Isolate and Fault events.

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Figure 24 Current Logs

From this window you can select: Display Alarms, Display Isolates and Display Faults. Each will display the log account of selected TAB.

#### 4.7 Silence Alarms



Silence Alarms: Allows the User to silence alarms system wide.

#### 4.8 Master reset



**Master Reset:** As per the Master Reset at the Fire Alarm Control Panel (FACP). Resets all Alarms on the system

#### 4.9 Tools



**Tools Icon:** Click on the icon in top menu bar shown on every map screen. There are six selections available from this menu

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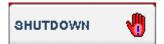




Figure 25 Tools Menu

Considering each selection

#### 4.9.1 Shutdown



Clicking the Shutdown button will pop up a window asking you Yes or No to Shutdown the Project.



Figure 26: Shutdown Yes No Window



#### 4.9.2 Control



Clicking the Control Icon will bring up the Multiple Device Control. allowing you multiple control of Zones or Loop/Sensors.

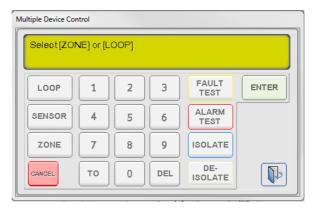


Figure 27: Multiple Device Control Screen

#### 4.9.3 Erase Logs



Clicking on the Erase Logs allows the User to erase User Logs, Alarm Logs, Fault Logs and Isolate Logs by clicking on the appropriate Icon. Once the Icon is clicked a pop up box will ask you to confirm your decision.



Figure 28: Erase Log Menu



Figure 29: Confirmation Window

Note: Clicking OK will erase all logs to date

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Note: The same "pop up" screen to that above will be presented for Erase Alarm, Fault and Isolate Log Files

#### 4.9.4 Set Up



Clicking the Setup button allows the User to, Setup the Printer, Turn Auto Print On/Off and Turn Auto Display On/Off



Figure 30: Set Up Menu

Selecting PRINT SETUP results in the following dialogue being displayed

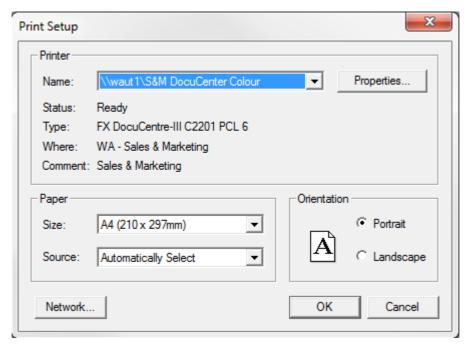


Figure 31: Set Up Printer Window





By selecting AUTO PRINT an Alarm will be automatically printed to the Map Printer as it occurs. (This Option is toggled by clicking on the Icon)



By selecting AUTO DISPLAY an Alarm will be automatically displayed on the screen as it occurs. (This Option is toggled by clicking on the Icon)



#### 4.9.5 User Tools



Click on the User Tools allows the user to Add User, Edit User and User Log setup.



Figure 32: User Menu

Considering each of the selections:



Provides the User the ability to add extra users to the system. The following pop up screen allows for User information to be added



Figure 33: Create User Screen





Provides the User the ability to Edit current user information

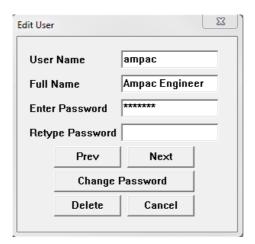
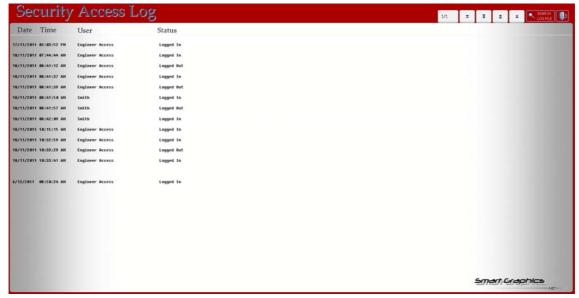


Figure 34: Edit User Screen

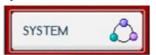


Provides the user the ability to view which users have accessed the system

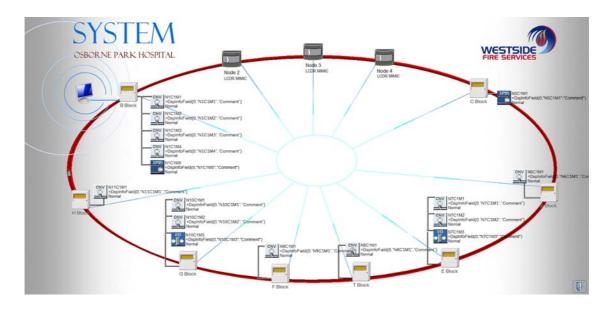




#### 4.9.6 System



The system page displays the current status of the fire system network to be viewed, as well as the status of the modules connected to each network node.



Note: The above example System Display shows the connections and status of the panels and modules in a **FireFinder** system.

#### 4.9.7 Close Menu



Click to close the open window.

#### 4.10 Log In / Log Out

Log In / Out User: Click here when you have finished using the system. This will return the system to Level 1 access and will be ready for the next user to login.

#### 4.11 Display Building Info



Display Building Info: Display Information about the Building Site and Contact Details





Figure 35 Building Information

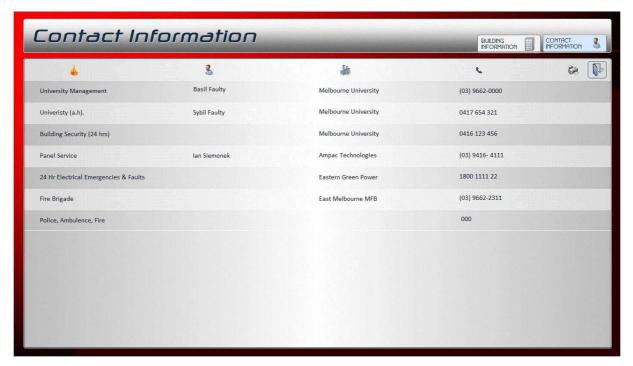


Figure 36 Contact Information

The building display and contact information is not part of the standard SmartGraphics $_{HD}$  package. It is an extra which needs to be specified separately.

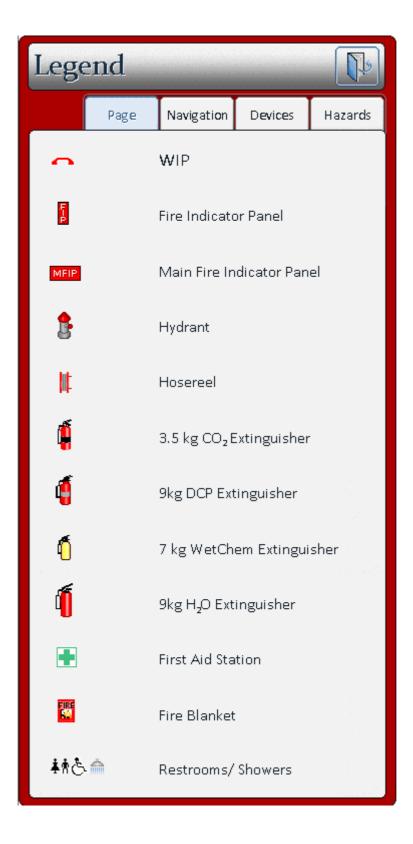


#### 4.12 Legend



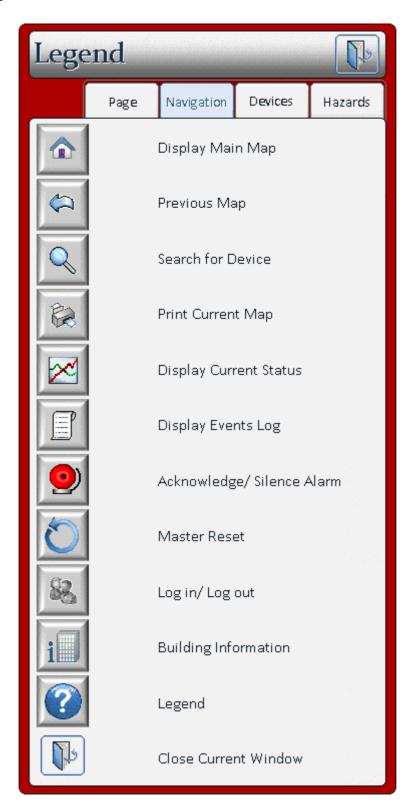
Legend: Displays a Legend of all the Icons and the Terminology

#### 4.12.1 Page Legend



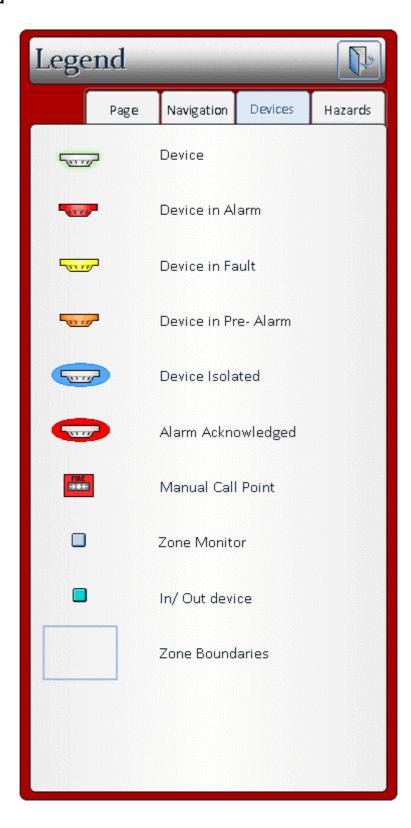


#### 4.12.2 Navigation Legend



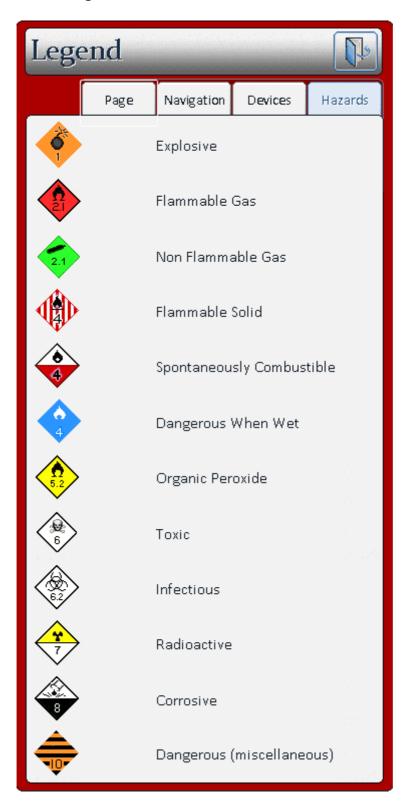


#### 4.12.3 Device Legend





#### 4.12.4 Hazards Legend



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NOTES:		SYSTEMS



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#### **UNCONTROLLED DOCUMENT**

NOTE: Due to AMPAC's commitment to continuous improvement specifications may change without notice.