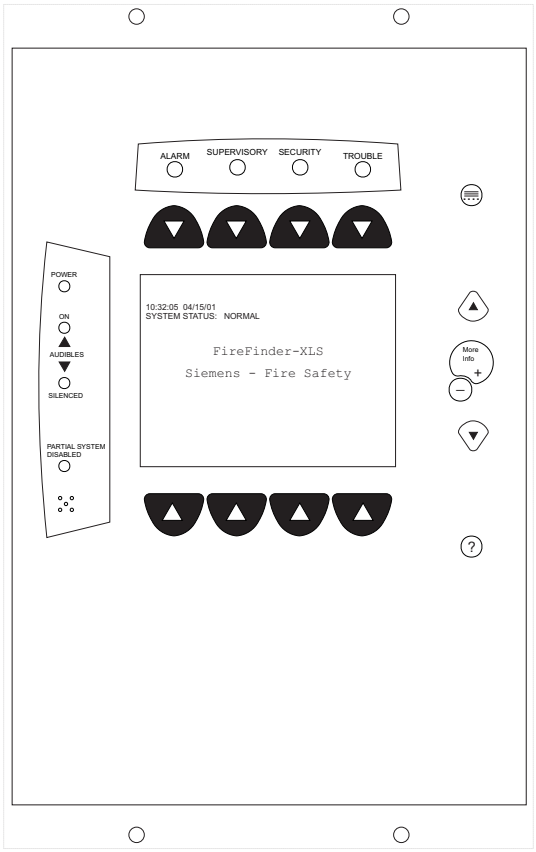
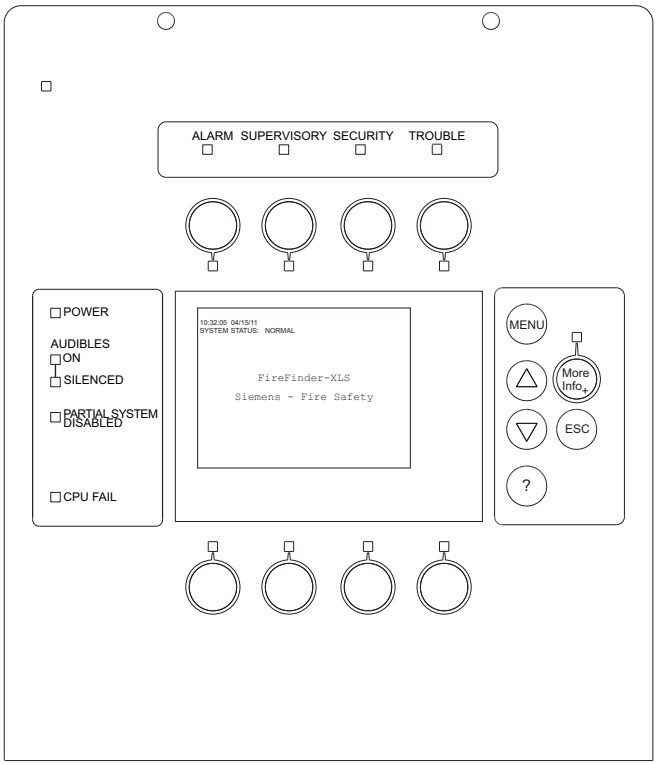
SIEMENS

FIREFINDER-XLS CONTROL PANEL

PMI Operation Manual



PMI Version 1



PMI Version 2

P/N 315-033874-10
11-15-12

Siemens Industry, Inc.
Building Technologies Division

Contents

1

INTRODUCTION

The PMI is the primary user interface for the FireFinder-XLS system. When the PMI is installed, the display, LEDs and control keys/buttons are visible from behind a locked door. Unlock and open the door to gain access to those keys and buttons.

From the PMI the operator can acknowledge events, control the system notification appliance circuits and reset the system. Detailed information about the nature and location of events can also be displayed.

The PMI contains the site specific program as developed in the Zeus programming tool. All system logic and supervision is provided by the controller in the PMI. The PMI and the Zeus programming tool require compatible firmware/software. The tool will give a warning if the user attempts to use incompatible software to configure a system.

The PMI contains a VGA LCD, Touch Screen and LEDs for displaying system status. An audible sounds when there are unacknowledged events on the PMI. This screen is surrounded by keys that are used to control the displayed information and to navigate through these screens. If more items are present than can be displayed on a single screen, a scroll bar appears to the right of the list. Press the up and down navigation buttons to the right of the LCD to move through the list. The selected listing is highlighted in the display. Buttons are also provided to obtain help and to enter into the menu features of the PMI (Refer to Figure 1-1) and/or PMI-2 (Refer to Figure 1-2).

PMI

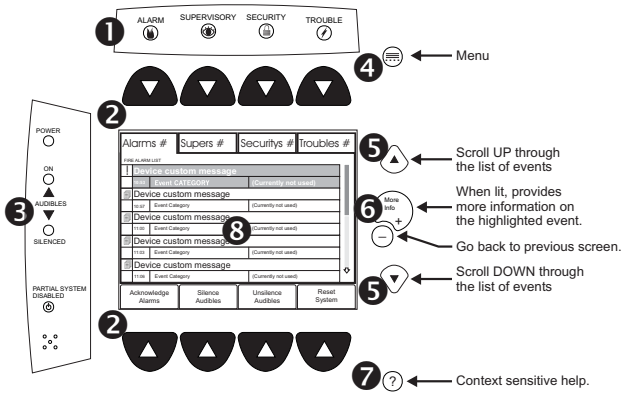


Figure 1-1
PMI User Interface

PMI-2

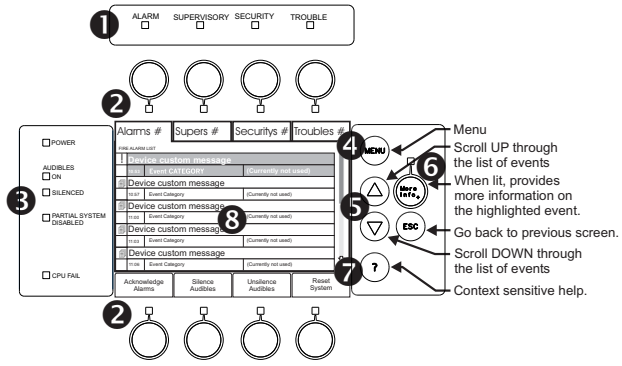


Figure 1-2
PMI-2 User Interface

Interface Overview

❶ LEDs blink when an event is reported and unacknowledged (ALARM: red, SUPERVISORY: yellow, SECURITY: yellow, TROUBLE: yellow). The LEDs glow steady if all events in the class/queue are acknowledged. An internal audible alarm sounds steady when there is an unacknowledged fire alarm. It pulses if all alarms are acknowledged, but there is at least one security, supervisory, or trouble condition.

❷ Along the top and bottom of the LCD are rows of four soft keys. These soft keys have no specific function assigned to them. Each of the soft keys has a green LED that is used to guide the operator to the available actions.

❸ POWER - Power LED glows steady green to indicate that the AC power is on; blinks when the System is on battery backup.

AUDIBLES - Audibles ON or Audibles SILENCED glows steady yellow.

PARTIAL SYSTEM DISABLED - Partial System Disabled glows steady yellow when any module/device is disabled or the system is in walktest.

CPU FAIL (PMI-2 only) - CPU Fail glows steady yellow when a main processor failure occurs in the PMI-2.

❹ Press ☰ (PMI) or MENU (PMI-2) to display a MENU of available information.

❺ Scroll UP / Scroll DOWN - Use the scroll up button ▲ to navigate up or the scroll down button ▼ to navigate down a list to choose a specific entry from the list of information displayed on the screen. If the button remains depressed, the list scrolls progressively faster until it reaches ten items at a time.

❻ MORE INFO/+ - Use *More Info/+* to navigate or drill down through the levels of detail about a selected entry. When viewing a report that is longer than one screen, pressing *More Info/+* highlights the first entry of the report.

—(PMI) or ESC (PMI-2) - Use — or ESC to navigate or drill up through the levels of detail about a selected entry. When viewing a report that is longer than one screen, pressing — or ESC highlights the last entry of the report.

❼ HELP - Press ? for context-sensitive help. Press ? again or press the Exit Help soft key to return to your previous position. If no key presses are made for 60 seconds, the help will time out and return to the previous screen.

❽ Touch screen display - Touch selections on the screen when there are options that are not selectable using the soft keys. Use of the touch screen is not required in Alert mode.

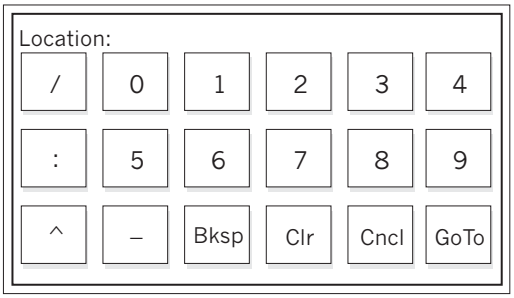


Figure 1-3
GoTo Touch Screen

The GoTo touch screen (Figure 1-3) is available in the Physical View for tree navigation and reports that scroll. Use it to access information more quickly by entering the desired address and pressing GoTo, thus eliminating the need to scroll up or down line by line.

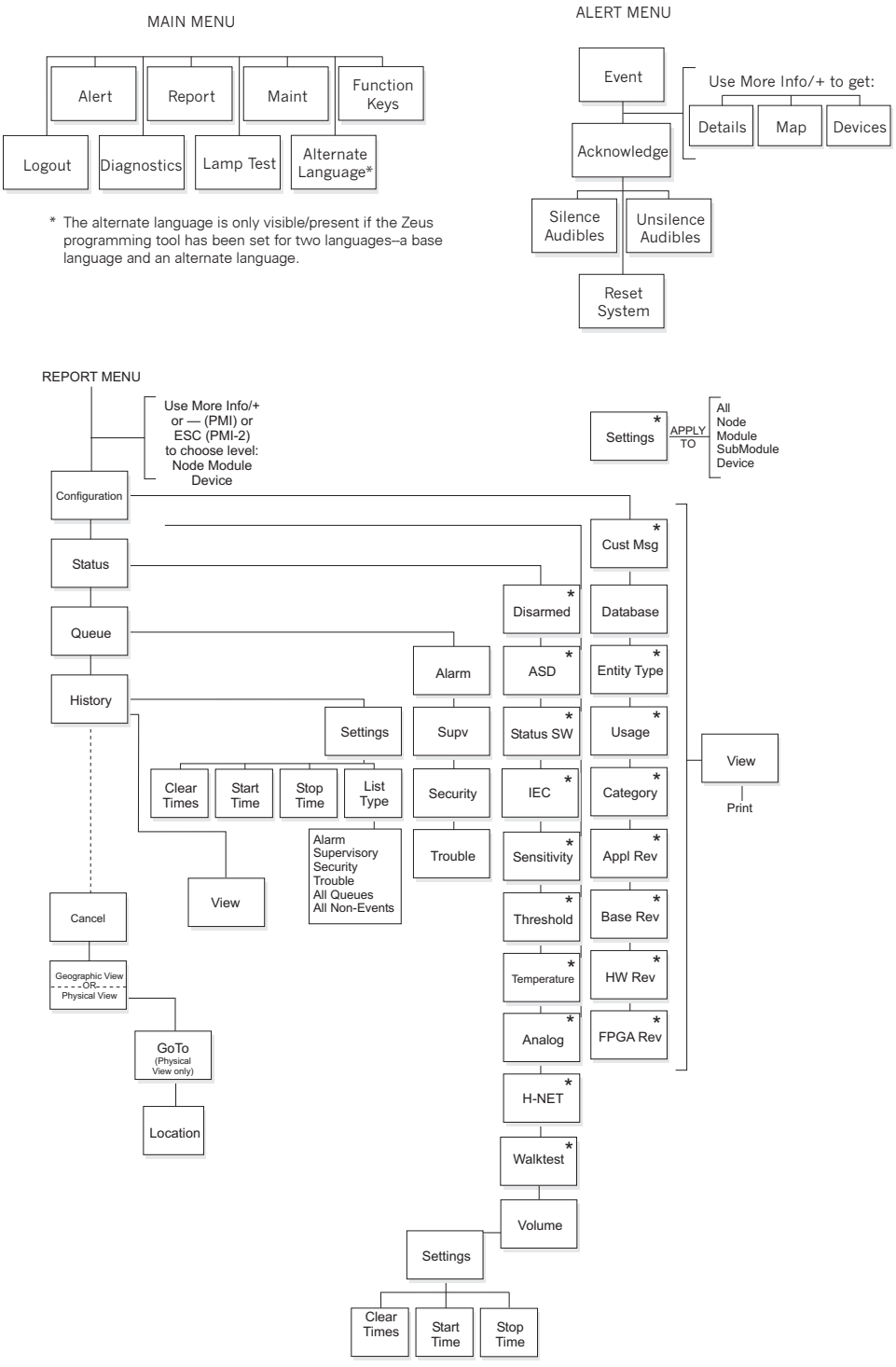
NOTE

The model PMI-2 is a direct replacement for the model PMI, therefore in the screens that display system information, the model name PMI represents both the PMI and PMI-2.

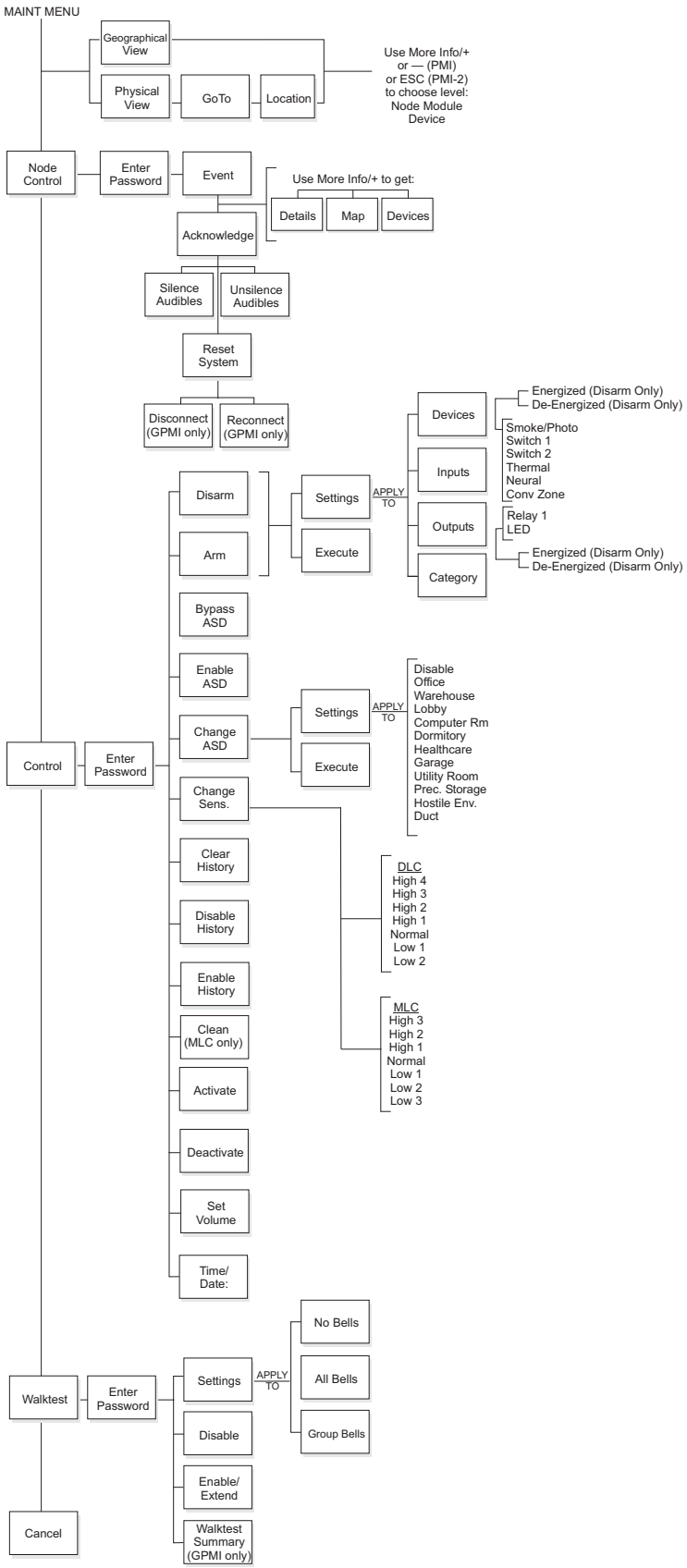
USING THE MENU

The menu gives you wide control of the FireFinder-XLS System. You may use the menu no matter what mode the system is in.

The Main Menu items and the sub-items of the Alert, Report and Maintenance modes are shown in the FireFinder Menu Structure chart that follows. Press (PMI) or (PMI-2) to begin a menu session. The Main Menu items display on the screen. See Figure 1-6. To enter a menu item, press the soft key pointing to the desired item.



NOTE All menu items may not appear, depending upon your System configuration.



NOTE All menu items may not appear, depending upon your System configuration.

Tree Structure

In most menus, the PMI uses a tree structure to display the elements of the system. Subordinate items connected to a device are children of that device; the device connected just above the device is its parent. This tree structure closely resembles the physical arrangement of elements used in the Zeus programming tool.

Devices that have been organized into groups using the Zeus programming tool appear on the tree structure in the hierarchy of highest to lowest with the corresponding default names of: Campus (L5), Building (L4), Floor (L3), Area (L2), Zone (L1). The default names can be changed in Zeus.

Devices that are not in groups are considered to be at the "primitive" level.

Physical View

The Physical View on the PMI corresponds to the Physical View in the Zeus programming tool. The elements of the system are displayed in tree format. At the highest level is the system, followed by the nodes, modules, submodules and devices. Devices are children of modules and submodules. The letters PHY on the second line in the upper left corner of the screen indicate the display is showing the Physical View. (Refer to Figure 1-4.)

Geographic View

The Geographic View on the PMI corresponds to the Geographic View in the Zeus programming tool. In the Geographic View, elements of the system are displayed in the groups that were programmed in Zeus. The letters GEO on the second line in the upper left corner of the screen indicate the display is showing the Geographic View. This view is used to Disarm/Arm, Walktest, Bypass ASD for Testing and create reports.

Changing Views

To change from the Physical View to the Geographic View, press the Geographic View soft key (when available). The soft key will then toggle to read Physical View. The Physical/Geographic View Soft keys appear when the screen shows the tree structure of the system, as displayed in Figure 1-4.

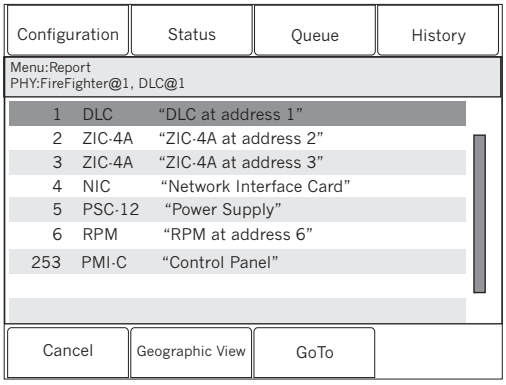


Figure 1-4
Screen Displaying Tree Structure Of System In Physical View

NORMAL MODE

Normal mode is the absence of any alarm, supervisory, trouble, or security conditions.

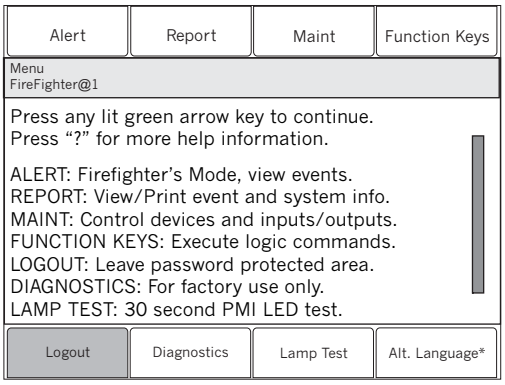
The screen displays SYSTEM STATUS: NORMAL with the time and date. If a custom message has been programmed using the Zeus tool (refer to Zeus Quick Start Guide, P/N 315-033875), the node custom message also displays in this mode. See Figure 1-5.

Figure 1-5
Normal Mode Display

The POWER LED glows steady green in Normal mode when the System has AC power. The ALARM, AUDIBLE ON, AUDIBLE SILENCE, SUPERVISORY, TROUBLE, SECURITY, and PARTIAL SYSTEM DISABLE LEDs are off and the internal audible is off.

Menu

Press the Menu button (see ❹ on page 1-2) to display a menu of all PMI options. See Figure 1-6. The currently available options are described below.



* The alternate language is only visible/present if the Zeus programming tool has been set for two languages–a base language and an alternate language.

Figure 1-6
Menu Screen

ALERT MODE

When an Alarm, Security or Supervisory event occurs in the system, the display enters the Alert or Firefighter's mode automatically. The events are displayed in priority order (Alarm, Security, Supervisory, Trouble), the local audible sounds and the appropriate LED blinks. If the event caused notification appliances to sound, the Audibles On indicator lights. At the bottom of the screen an Acknowledge soft key is displayed. Pressing this key acknowledges the event and silences the local audible.

Once all events are acknowledged and audibles silenced, a Reset System soft key becomes available in the lower right side of the display. If notification appliances were active, two additional soft keys become available at the bottom of the screen. These allow the operator to silence or unsilence the notification appliances (audibles). When the notification appliances are silenced the Audibles Silenced LED lights.

Press the *More Info/+* button to display a screen showing details relating to the selected event. Additional soft keys appear at the bottom of this screen, including one that displays a map of the area in which the event occurred, provided this information has been programmed using the Zeus tool. The operator can return to the previous screen by pressing the — (PMI) or (ESC) (PMI-2) button, which is adjacent to the *More Info/+* button.

NOTE

Event counts in PMI and SSDs may differ because SSDs currently display only "primitive" (individual) events, while a group PMI whose devices are programmed into groups in Zeus will display only one queue event per group.

Alarm

When an alarm is detected, the red Alarm LED blinks, the System's internal audible sounds steady, the *Audibles On* LED glows steady, and the alarm event displays on the screen with a blinking exclamation mark (!) See Figure 1-7. The event listing displays the Event Custom Message, the Time of the event occurrence and the Alarm Event Category (refer to the Alarm Event: Category Cross Reference Table below).

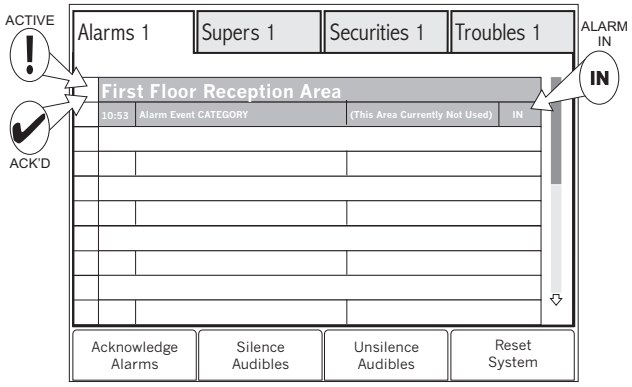


Figure 1-7
Alarm Event Screen

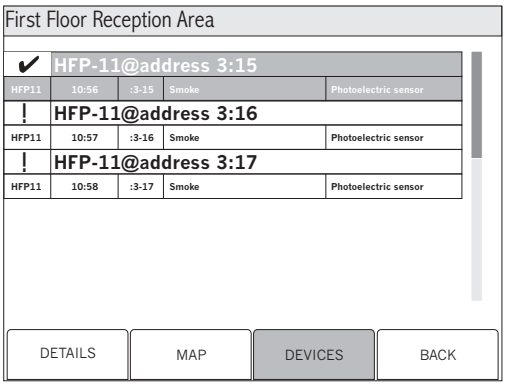
ALARM EVENT: CATEGORY CROSS-REFERENCE

Category	DLC Physical Device	MLC Physical Device	VESDA Physical Device
SMOKE	HFP-11, HZM, FDO421, FDOT421, FDOOT441, FDOOTC441, OP921, OH921, OOH941, OOHC941	FP-11, ID-60I Series, ID-60P, ILI-1 Series, ILP-1, ILPT-1, ILP-2, CZM-1/-1B6	VLF-250/-500, VLC-505, VLP-400/-010/-002/-012, VLI-885, VFT-15, VLS-200/-300/-600/-700/-204/-304/-310/-214/-314/-210
HEAT	HFPT-11, HTRI, HZM, SIM-16 Input, FDT421, OP921	FPT-11, ID-60PT, ID-60T, ILPT-1, ILT-1	N/A
MANUAL	HMS, HTRI, SIM-16 Input, HZM	MSI-1/-10/-10B, MSI-2/-20/-20B, MSI-30B(C) TRI-2/-60/-B6/-S, TRI-2R/-60R/-B6R-/R, TRI-2D/-60D/-B6D/-D, TRI-B6M, CZM-1/-1B6	N/A
CONV. ZONE	HZM (for mixed device usage on a conventional zone)	CZM-1/-1B6 (for mixed device usage on a conventional zone)	N/A
WATERFLOW	HTRI, HZM, SIM-16	TRI-2/-60/-B6/-S, TRI-2R/-60R/-B6R-/R, TRI-2D/-60D/-B6D/-D, TRI-B6M, CZM-1/-1B6	N/A
CO	FDOOTC441, OOHC941		
NOTE: Categories are fixed for some devices and selectable for others, based on the application selected in the Zeus programming tool. (i.e., HMS is always MANUAL, but HTRI is selectable.)			

In addition, the System responds to alarms with other output functions (as programmed in the Zeus tool) such as other audible signals.

An Acknowledge Alarms soft key displays in the bottom left corner of the screen. Press this key to acknowledge each alarm and to silence the local audible. The blinking exclamation point (!) then changes to a check mark (✓). See Figure 1-7. (If the system is programmed as NFPA 72D in the Zeus tool, it is necessary to individually acknowledge each alarm.)

Highlight an event and press the *More info/+* button to go to the Devices screen, as shown in Figure 1-8 If the selected item is part of a group, the device list will show the primitive (individual) devices currently off-normal in the event queue. All events in a group of the same type (i.e., Alarm, Trouble) display together in the devices screen. Primitive devices that are not part of a group display by themselves. Depending on how the system is programmed in Zeus, the top event can be a device or a group.



WHERE:
First Floor Reception Area is the Group Message
! is an active event; ✓ is an acknowledged event
HFP-11 @ address 3:15 is the device custom message
HFP11 is the event device
10:56 is the event time
:3-15 is the event device address
Smoke is the component category
Photoelectric sensor is the event device component

Figure 1-8
Alarm Devices Screen

Pressing the Details soft key takes you to the Details screen as shown in Figure 1-9. The Details screen contains information that has been entered using the Zeus programming tool, such as additional information about the alarm location, the number of devices in alarm (this number can be more than one when the device is part of a group), the alarm types, the name and phone number of a contact person, icons showing the fire equipment in the area and icons showing special conditions.

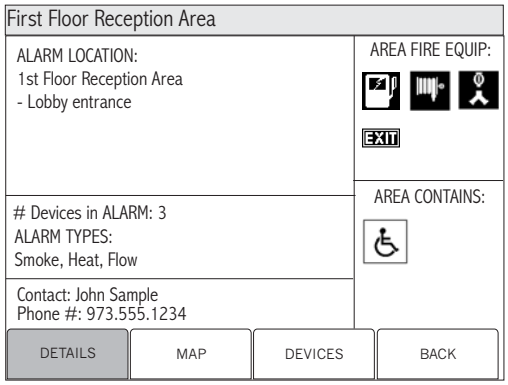


Figure 1-9
Alarm Details Screen

Press the Map soft key to display a map showing the location of the event, provided the information has been programmed using the Zeus tool. Refer to Figure 1-10. Maps can be programmed to provide icons showing the event type. These icons are the same ones that represent Alarm, Security, Supervisory and Trouble on the PMI panel. The map can also be programmed to show the location of the PMI ("You are here").

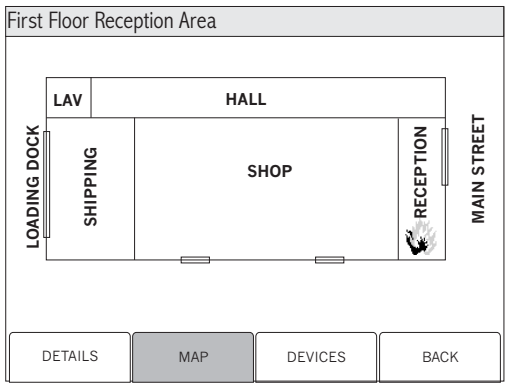


Figure 1-10
Sample Map Screen

Supervisory

When a supervisory is detected, the yellow Supervisory LED blinks, the System's internal audible pulses, and the event(s) display on the screen with a blinking exclamation mark (!). This event listing displays the Event Custom Message, the Time of the event occurrence and the Supervisory Event Category (i.e., Security, Sprinkler, etc.).

In addition, the System responds to supervisories with other output functions (as programmed in the Zeus tool).

An Acknowledge Supervisory soft key displays in the bottom left corner of the screen. Press this key to acknowledge each supervisory and to silence the local audible. The blinking exclamation point (!) then changes to a check mark (✓). See Figure 1-7.

Security

When a security is detected, the yellow Security LED blinks, the System's internal audible pulses, and the event(s) display on the screen with a blinking exclamation mark (!). This event listing displays the Event Custom Message, the Time of the event occurrence and the Security Event Category (i.e., Door, Monitor Point, etc.).

In addition, the System responds to securities with other output functions (as programmed in the Zeus tool).

An Acknowledge Security soft key displays in the bottom left corner of the screen. Press this key to acknowledge each security and to silence the local audible. The blinking exclamation point (!) then changes to a check mark (✓). See Figure 1-7.

Trouble

When a trouble is detected, the yellow Trouble LED blinks, the System's internal audible pulses, and the event(s) display on the screen with a blinking exclamation mark (!). This event listing displays the Event Custom Message, the Time of the event occurrence and the Trouble Event Category (refer to the Trouble Event: Category Cross Reference Table that follows).

TROUBLE EVENT: CATEGORY CROSS-REFERENCE

Category	Physical Device
DEVICE	Any supervised input device on a DLC, VPM or MLC loop, or zone/circuit trouble report -i.e., HFP-11, HFPT-11, HTRI devices, FP-11, FPT-11, TRI devices, HMS, OCM, SIM-16 individually supervised circuits.
ZONE	ZIC zones, ZAC zones, ZAM zones, HZM zones, CZM-1/-1B6 zones
MODULE	Any supervised module trouble - i.e., PMI, DLC, MLC, VPM, ZIC, ZAM, PSC, PSX, NIC.
SYSTEM	Any System-related trouble/failures that are not pinpointed to a specific module, zone or device.
NETWORK	XNET / HNET
NOTE: All of these categories are pre-defined by the factory and are not field selectable.	

In addition, the System responds to troubles with other output functions (as programmed in the Zeus tool).

An Acknowledge Trouble soft key displays in the bottom left corner of the screen. Press this key to acknowledge each trouble and to silence the local audible. The blinking exclamation point (!) then changes to a check mark (✓). See Figure 1-7.

24 Hour Trouble Resound

If acknowledged troubles remain in the queue, the system will sound the local audible every 24 hours as a reminder. A 24 Hour Trouble Resound pop-up box (See Figure 1-11) will appear on the PMI and the sounder will remain on until it is silenced. To silence the local audible, touch any PMI key or press the Silence button on the touch screen.

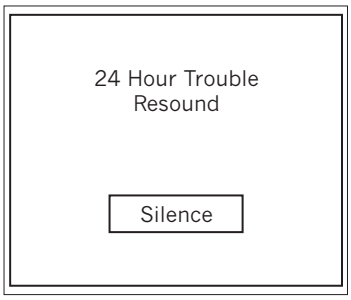


Figure 1-11
24 Hour Trouble Resound Pop-up Box

Reset Procedures

There are two types of reset procedures that can be performed on the FireFinder-XLS System: Hard Reset and Soft Reset.

Hard Reset

Other terms for Hard Reset are Power-up, Initialization, and Cold Reset. Applying power to the system performs a Hard Reset. Doing so initializes the whole system.

What Is Lost:

- Alarm, supervisory, trouble, and security conditions (provided they have returned to the normal state).
- Arm/disarm.
- Manual sensitivity adjustment.

What Is Not Lost:

- Zeus program/database.
- Time and date.
- History log.
- Time-based control.

Soft Reset

A Soft Reset is performed by pressing the Reset System soft key. The system can only be reset when all events (alarms, securities, supervisories, and troubles) are acknowledged and the notification appliances are silenced.

What Is Lost:

- Alarm, supervisory, trouble, and security conditions (provided they have returned to the normal state).

What Is Not Lost:

- Any user entries such as time and date.
- Arm/disarm.
- Zeus program/database.
- Manual sensitivity adjustment.
- Time and date.
- History log.
- Time-based control.

XNET Networked System

When the FireFinder-XLS is part of a network of FireFinder nodes communicating over the XNET communication protocol, the PMI Alert capabilities can be adjusted in several ways to provide the required level of oversight.

Global PMI

With the appropriate hardware upgrade and the proper configuration in the Zeus tool, a PMI can be given global capability over an XNET network of XLS, MXL and MXL-IQ nodes.

A PMI with global capability is referred to as a Global PMI, and it displays events for all nodes within the XNET network. In contrast, a PMI that does not have global capability is referred to as a local (or standard) PMI. In a Global PMI, the event device address in the Devices screen is displayed as a global address. The first number in a global address is the address of the node that owns the device, followed by the module and device address of the device.

Whether configured as a Global PMI or not, a PMI always displays all events pertaining to its local node. However, a Global PMI can be configured to selectively display the events for remote XNET nodes for specific event types only. For example, a security-only Global PMI displays all local events, but it only displays the security events that are posted by remote nodes.

In addition to the PMI configuration, the Global PMI requires a Global PMI configuration file, transferred from the Zeus tool to the PMI's PCMCIA or SD card. The two configuration files must correspond to the same version of the same Zeus project. If the PMI determines that the two files don't match, it posts a trouble and runs as a local PMI.

Scope of Control

A PMI that is configured as Display Only does not provide the ability to acknowledge events, to silence or unsilence the notification appliances, nor to reset the system. When an event occurs in a PMI with Display Only, a Silence Buzzer soft key displays in the bottom left corner of the screen. Pressing this key silences the system's internal audible.

A Global PMI that is configured as a PMI with Control provides control over the entire network of XLS, MXL and MXL-IQ nodes. When pressing the soft keys that are available at the bottom of the screen (Acknowledge Events, Silence Audibles, Unsilence Audibles and Reset System), the specific command is executed on all the nodes where it is applicable.

A Global PMI that is configured as Display Only may retain control over its local node, if configured this way in the Zeus tool. In this case, it behaves as a PMI with Control with regard to its local node, and as a PMI with Display Only with regard to the remote nodes. The soft keys at the bottom of the screen are relabeled Local Acknowledge, Local Silence, Local Unsilence and Local Reset, respectively. These control commands apply only to the events and notification appliances in the local node.

2

REPORT MODE

Report Mode is used to obtain information and create reports about the system, modules, submodules and devices.

Report Options

There are four options that can be selected in the Report Mode: Configuration, Status, Queue and History.

NOTE

Report displays are not dynamic.The information on the PMI screen is displayed at the moment the report was requested.

The Configuration reports list the following information:

CONFIGURATION REPORT

Selection	Report Type	Report Information		
Cust Msg	Custom Message	Address	Entity	Custom Message
Database	Database Info	DB Item	Value	-----
Entity Type	Entity Type	Address	Entity	-----
Usage	Device Usage	Address	Entity	Usage
Category	Device Category[1]	Address	Entity	Category
Appl Rev	Application Version[2]	Address	Entity	Software Version
Base Rev	Base Version[3]	Address	Entity	Firmware Version
HW Rev	Hardware Version[4]	Address	Entity	Hardware Version
FPGA Rev	FPGA Version[5]	Address	Entity	FPGA Version

[1]The Device Category Report will display "None" for MLC devices.

[2]The Appl Rev report gives the current version of the Application-specific Software, i.e., the software that defines what a specific module is and does. PMI-2 shows the PMI App version and the PCC V1 App version.

[3]The Base Rev report gives the current version of the common HNET interface base firmware on all modules with the exception of the MLC which gives the current version of the MLC Bootloader.

[4]HW rev does not apply to all hardware. *NAv* indicates either unable to acquire or not available from entity. For the MLC, the current revision of the ALD Chip is displayed instead of the Hardware Version. The VPM shows the HLI version for this report.

[5]The FPGA Rev report is for the following voice-specific submodules only: ZAC-40, ZAM-180, AIC and LPB.

The Status reports list the following information:

STATUS REPORT

Selection	Report Type	Report Information		
Disarmed	Disarmed	Address	Entity	Component
ASD	ASD	Address	Entity	ASD Setting
Status Sw	Active Switches	Address	Entity	Custom Message
Sensitivity	Sensitivity	Address	Entity	Sensitivity (%/Foot)
Threshold	Threshold	Address	Entity	Alarm Threshold (%/Foot)
Temperature	Temperature	Address	Entity	Temperature (Deg C)
IEC	IEC	Address	Entity	IEC (%)
Analog[2]	MXL Analog	Address	Entity	Analog (Volts)
HNET	HNET Statistics	Address	Entity	Statistics
Volume[1]	Audio Volume			Channel, Value (dB)
Walktest	Walktest	Address	Type	Time/Date, Custom Msg.

[1]Applies only to ZAC-40 and ZAM-180 modules.
[2]DLC, MLC and VPM modules display analog in %/Foot.

The Queue reports list the following information:

QUEUE REPORT

Selection	Report Type	Report Information				
Alarm	Alarm	Address	Entity	Custom Message	Event Time & Event ID	IN/OUT
Supv	Supervisory	Address	Entity	Custom Message	Event Time & Event ID	IN/OUT
Security	Security	Address	Entity	Custom Message	Event Time & Event ID	IN/OUT
Trouble	Trouble	Address	Entity	Custom Message	Event Time & Event ID	IN/OUT & Trouble Type

The History reports list the following information:

HISTORY REPORT

Selection	Report Type	Report Information				
Alarm	Alarms	Address	Type	Event Description	Event Time & Date	Custom Message
Supervisory	Supervisories	Address	Type	Event Description	Event Time & Date	Custom Message
Security	Securities	Address	Type	Event Description	Event Time & Date	Custom Message
Trouble	Troubles	Address	Type	Event Description	Event Time & Date	Custom Message
All Queues	All Alrm,Supv, Sec & Trbl Events	Address	Type	Event Description	Event Time & Date	Custom Message
All Non-Events	All Other History (Not Alrm, Supv, Sec or Trbl)	Address	Type	Event Description	Event Time & Date	Custom Message

Report

Press the Menu button (☰) on the PMI or MENU (PMI-2) (upper right) and select the Report option by pressing the Report soft key.

Press the *More Info/+* button on the PMI to navigate to the desired loop or specific device. When *More Info/+* is pressed once it displays the FireFinder-XLS node.

- Press the *More Info/+* button again to display a list of FireFinder-XLS modules; use the up and down buttons to select the desired module.
- Press the *More Info/+* button again to display a list of FireFinder-XLS submodules (provided your system has submodules installed); use the up and down buttons to select the desired submodule.
- Press the *More Info/+* button again to display a list of FireFinder-XLS devices; use the up and down buttons to select the desired device.

Report - Configuration

Once at the desired module/loop or device, press the Configuration soft key to display all the possible Configuration report types. See Figure 2-1 and the Configuration Report table. "Touch" the desired option to select it and the Report Screen appears for that option.

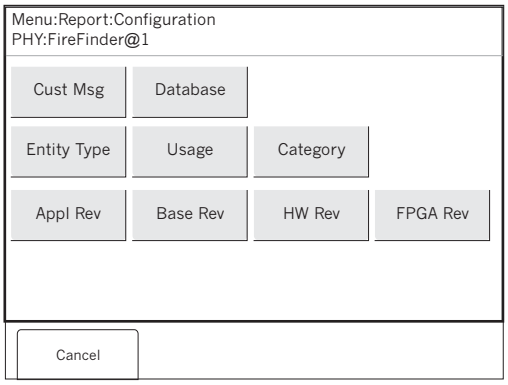


Figure 2-1
Configuration Report Selections

NOTE

To access, view and print any of the Configuration Reports, follow the directions described below. (The Custom Message Report has been used as an example.)

When Cust Msg is selected, the Custom Message Report screen displays as shown in Figure 2-2.

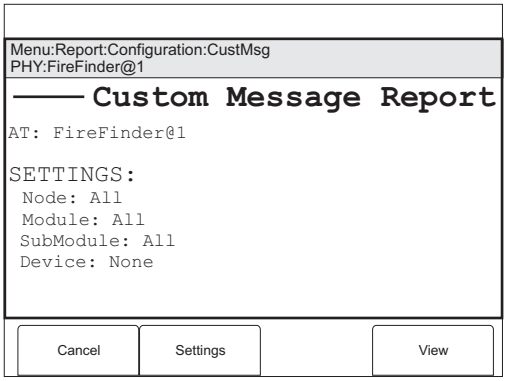


Figure 2-2
Custom Message Report Settings Status

Report - Settings

Press the Settings soft key to narrow the focus of the report at the node, module, submodule and/or device levels. See Figure 2-3.

Choose one from each of the following option levels, then press the Apply soft key:

Node: None / All

Module: None / All / A Specific Module (as programmed in the Zeus Tool)

Submodule: None / All / A Specific Submodule (as programmed in the Zeus Tool)

Device: None / All / Conv Zone / Manual / Smoke / Thermal / Thermal Only / TRIs

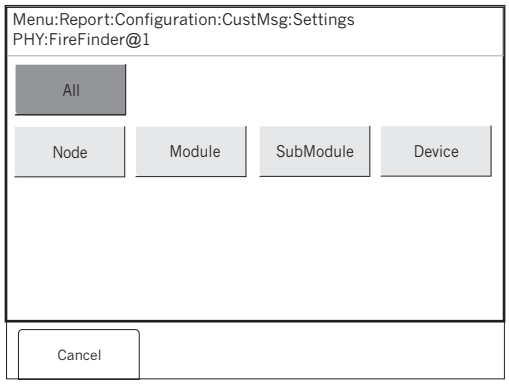


Figure 2-3
Report Settings Selections

When the Settings have been completed, press the Apply soft key to display the status screen showing the settings that were made to generate the report. See Figure 2-4.

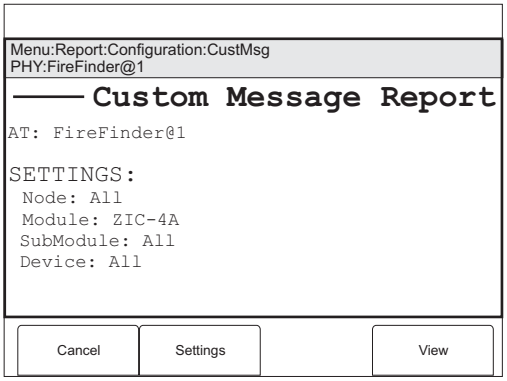


Figure 2-4
Custom Message Report Settings Status

Press the View soft key to display the list of Custom Messages. As the system reads the information to create the report it might display the message *Acquiring Data* and display the percentage of report completion. See Figure 2-5.

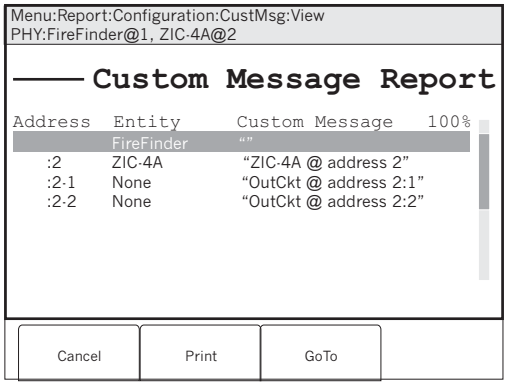


Figure 2-5
Viewing Custom Message Report

If the list of custom messages exceeds what can be displayed on the screen, a scroll bar appears with an arrow on the bottom indicating the list continues. To view the remaining items on the list, press the DOWN arrow button. If the down arrow button remains depressed, the list scrolls progressively faster until it reaches ten items at a time. To highlight the first item in a report list, press +; to highlight the last item in a report list, press —(PMI) or (ESC) (PMI-2).

This custom message report can be printed by selecting the Print option if the system has a report logging printer. (The Print option is greyed out until 100% of the report data is collected.)

Report - Status

Once at the desired module/loop or device, press the Status soft key to display all the possible Status report types. See Figure 2-6 and the Status Report table. "Touch" the desired option to select it and the Report Screen appears for that option.

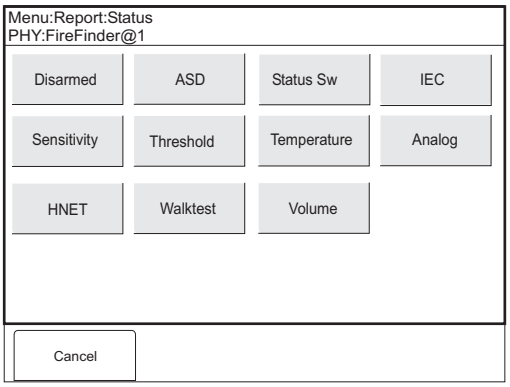


Figure 2-6
Menu: Report: Status Screen

NOTE

To access, view and print any of the Status Reports, follow the directions described below. (The Sensitivity Report has been used as an example.)The Settings soft key will be grayed out if the Settings option is not available for a selected report type.

To view a list of detector sensitivities, "Touch" the box labeled Sensitivity. The Sensitivity Report screen will display as shown in Figure 2-7.

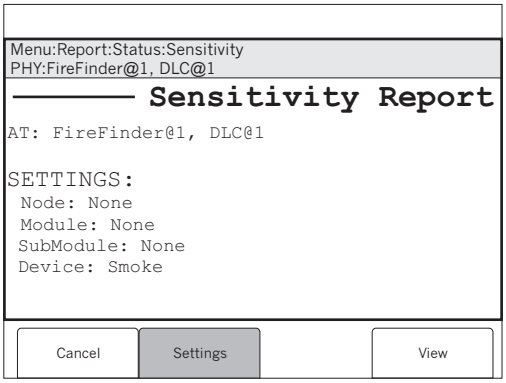


Figure 2-7
Sensitivity Report Settings Status Screen

Press the View soft key to display the list of Detector Sensitivities. As the system reads all device sensitivities for the module/loop or device it might display the message *Acquiring Data.* When the data is received, it displays on the PMI screen. See Figure 2-8.

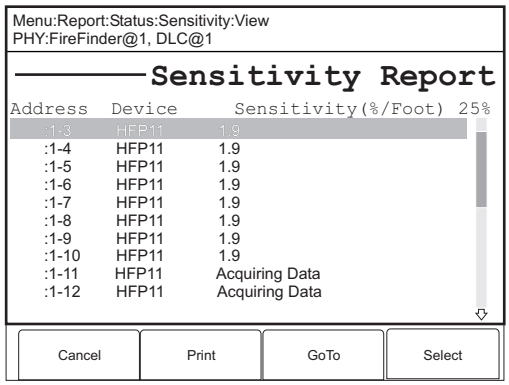


Figure 2-8
Sensitivity Report Screen (%/Ft, DLC)

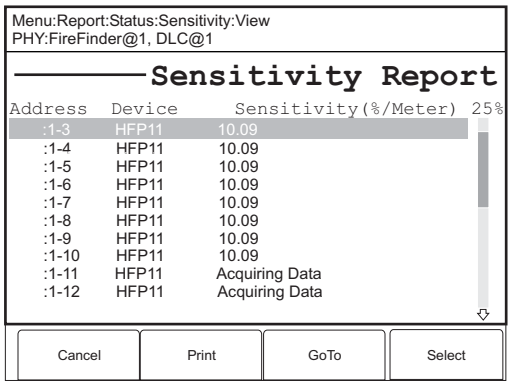


Figure 2-8b
Sensitivity Report Screen (%/M, DLC)

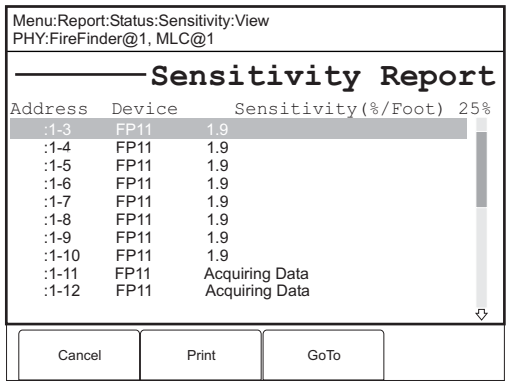


Figure 2-8c
Sensitivity Report Screen (%/Ft, MLC)

If the list of information exceeds what can be displayed on the screen, a scroll bar appears with an arrow on the bottom indicating the list continues. To view the remaining items on the list, press the DOWN arrow button. If the down arrow button remains depressed, the list scrolls progressively faster until it reaches ten items at a time. To highlight the first item in a report list, press *More Info/+*; to highlight the last item in a report list, press —(PMI) or (ESC) (PMI-2).

NOTE

Pressing the "Select" button switches between percentage per foot and percentage per meter. This feature applies to the DLC only.

This sensitivity report can then be printed by selecting the Print option if the system has a report logging printer.

Report - Volume

To view the Volume Report screen to see the amplifier and individual channel volumes as played on that amplifier, press the Menu button on the PMI and select the Report option by pressing the Report soft key. Press the More Info button on the PMI to navigate to the specific submodule. Press the Status soft key to display all possible Status Report types. Touch the Volume option to select it and the Volume Report Screen appears. See Figure 2-9. The Volume Report shows the volume setting at the selected amplifier and the volumes at which that amplifier will play individual channels. (All menu items may not appear, depending on your configuration.)

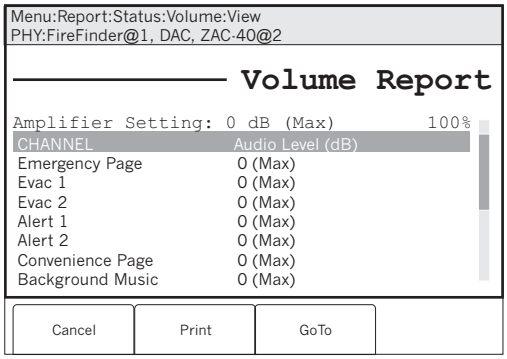


Figure 2-9
Volume Report Screen

NOTE

Each amplifier's volume and each channel's volume is set in Zeus. Non-emergency channels can be modified at the LVM or SCM if they are configured for one of the four available usages for volume adjustment (Selective Volume Up Convenience Page, Selective Volume Down Convenience Page, Selective Volume Up Background Music or Selective Volume Down Background Music).

To further illustrate how the Volume Report works, let's assume that the following settings are in Zeus:

Amplifier Setting = -6dB
Evac 1 = 0dB
Alert 1 = 0dB
Convenience Page = -6dB

If a Volume Report is generated, the report will appear as follows (Figure 2-10):

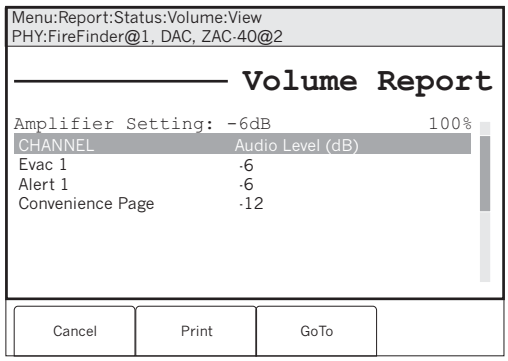


Figure 2-10
Volume Report

NOTE

The amplifier volume setting is *added to* each channel's volume.The result is the volume of *that channel* on *that amplifier.* For example, if the volume on the amplifier is set to -6dB and the volume of the Convenience Page channel is -6dB, the result is a volume level of -12dB for Convenience Page on that Amplifier.

A soft reset will not affect the settings in effect at the time of the soft reset. However, a hard reset will result in the restoration of the volume settings stored in the Zeus configuration.

Report - Queue

Once at the desired module/loop or device, press the Queue soft key to display all the possible Queue report types. See Figure 2-11 and the Queue Report table.

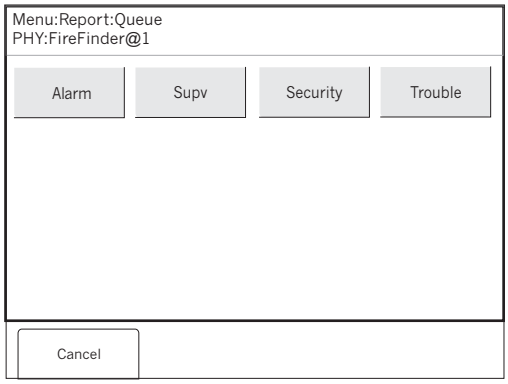


Figure 2-11
Menu:Report:Queue Screen

"Touch" the desired option (Alarm, Supervisory, Security or Trouble) to select it and the Report Screen appears for that option. The information in the Queue Report is divided into three separate screens, so it is necessary to press the Select soft key to toggle through the screens. The Address and Device information remain constant, but the information in the third column changes from Custom Message, to Event Time & ID, and then to In/Out. Refer to Figures 2-12 through 2-14.

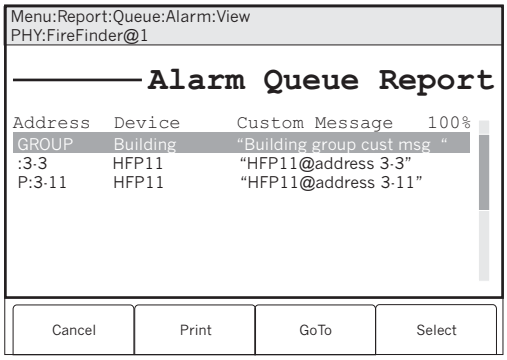


Figure 2-12
Report:Alarm Queue Screen #1

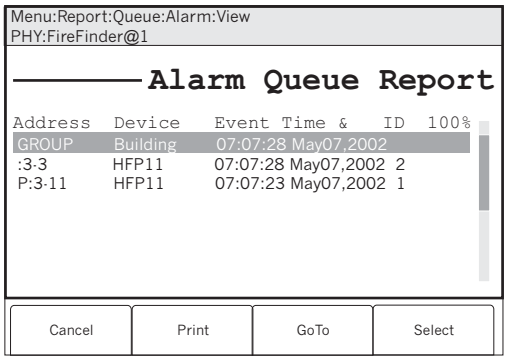


Figure 2-13
Report:Alarm Queue Screen #2

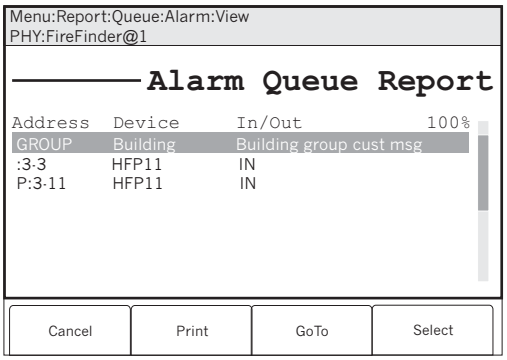


Figure 2-14
Report:Alarm Queue Screen #3

This alarm queue report can then be printed by selecting the Print option if the system has a report logging printer.

Report - History

Use Report-History to display a series of history information about the system, including Address, History Type, Description, Time & Date, and Custom Message. The following event types can be reported, depending upon selections made in the Zeus Tool:

- Alarms
- Trouble Events
- Supervisory Events
- Security Events
- Status Changes
- Alarm Verification
- Output Activations from Logic
- System Resets
- Event Acknowledgments
- Block Acknowledgments
- Audible Silence System Flag Changes
- Sensitivity Changes
- Arm / Disarm Commands
- Arm / Disarm By Logic

- Manual Output Overrides
- Output Overrides By Logic
- Time Changes
- Menu Logins
- ASD Changes
- Walktest
- Device Input to Logic Activations/Deactivations

Press the History soft key to display the Event Log Report screen. See Figure 2-15.

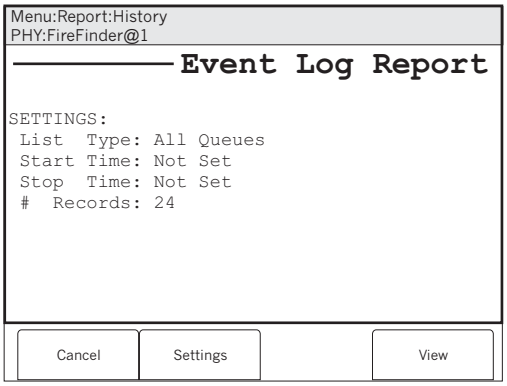


Figure 2-15
Event Log Report Screen

Press the Settings soft key. Touch the box labeled "Clear Times" to erase any previously set history report start and stop times. (The current time and date replaces the previously set start and stop times.) See Figure 2-16.

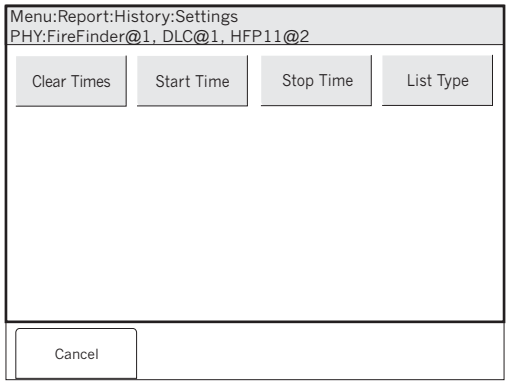


Figure 2-16
History Report Settings

Touch the box labeled "Start Time" to set the time and date of the first line of history information. Touch the box labeled "Stop Time" to set the time and date of the last line of history information. Enter the Time and Date using the keyboard screen to select the correct digits as the cursor moves along. The time is set according to the 24-hour clock. To advance forward without changing a digit, press >. To go backward without changing a digit, press<. Refer to Figure 2-17.

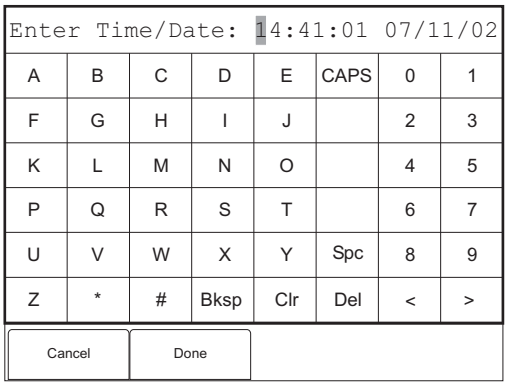


Figure 2-17
Enter Time / Date Screen

When the time and date are correct, press the Done soft key. Touch the box labeled "List Type" to narrow the scope of the report. Then choose one of the following report types (See Figure 2-18):

- Alarm: Displays Alarm events only.
- Supervisory: Displays Supervisory events only.
- Security: Displays Security events only.
- Trouble: Displays Trouble events only.
- All Queues: Displays Alarm/Supervisory/Security/Trouble events only.
- All Non-Events: Displays all other recorded information, other than Alarm/ Supervisory/Security/Trouble events.

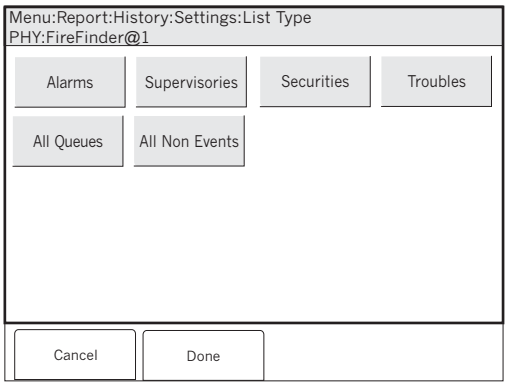


Figure 2-18
List Types Screen

The Event Log Report screen will display the new settings. Refer to Figure 2-19.

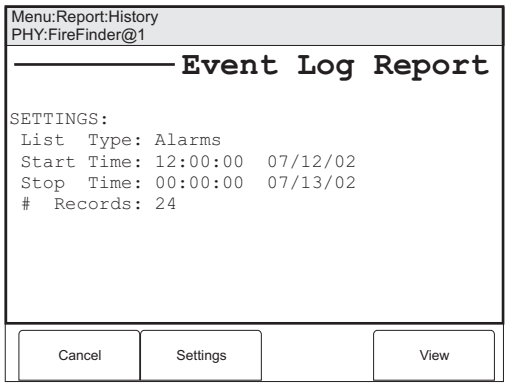


Figure 2-19
Event Log Report Screen (Displaying New Settings)

Press the View soft key to display the list of history information. As the system reads the information to create the report it might display the message *Acquiring Data* and display the percentage of report completion. See Figure 2-20.

If the list of history information exceeds what can be displayed on the screen, a scroll bar appears with an arrow on the bottom indicating the list continues. To view the remaining items on the list, press the DOWN arrow button. If the down arrow button remains depressed, the list scrolls progressively faster until it reaches ten items at a time. To highlight the first item in a report list, press *More Info/+*; to highlight the last item in a report list, press —(PMI) or (ESC) (PMI-2).

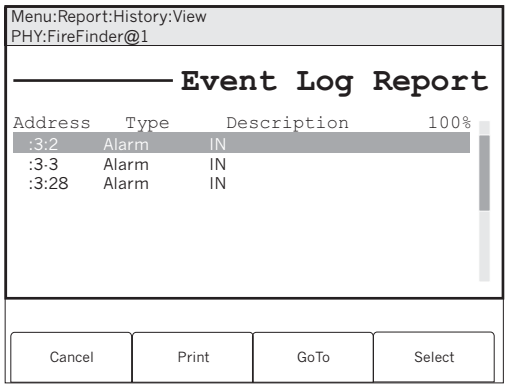


Figure 2-20
Event Log Report Screen #1

The information in the Event Log Report is divided into three separate screens, so it is necessary to press the Select soft key to toggle through the screens. The Address and Type information remain constant, but the information in the third column changes from Description, to Time/Date, and then to Custom Message. See Figures 2-20 through 2-22.

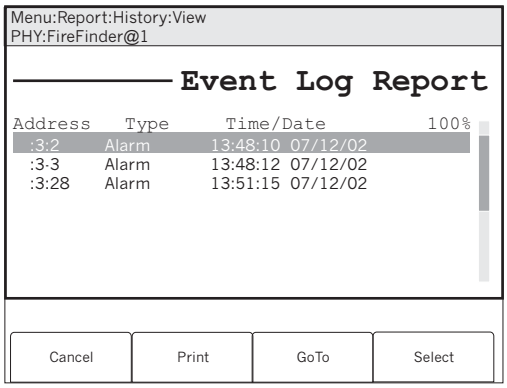


Figure 2-21
Event Log Report Screen #2

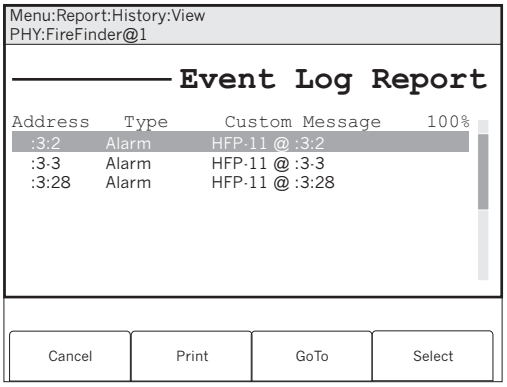


Figure 2-22
Event Log Report Screen #3

This Event Log Report can then be printed by selecting the Print option if the system has a report logging printer. The printed report will contain the information from all three of the Event Log Report screens.

3

MAINTENANCE MODE

Press the *Menu* button on the PMI (upper right) and select the *Maintenance* option by pressing the Maint soft key.

Maintenance Options

There are two options that can be selected in Maintenance Mode: Control and Walktest.

Press the *More Info* button on the PMI to navigate to the desired group, loop or specific device. When *More Info* is pressed once, it displays the FireFinder-XLS node.

In the Physical View:

- Press the *More Info/+* button again to display a list of FireFinder-XLS modules; use the up and down buttons to select the desired module.
- Press the *More Info/+* button again to display a list of FireFinder-XLS submodules (provided your system has submodules installed); use the up and down buttons to select the desired submodule.
- Press the *More Info/+* button again to display a list of FireFinder-XLS devices; use the up and down buttons to select the desired device.

In the Geographic View:

- Press the *More Info/+* button to display a list of Level 5 groups; use the up and down buttons to select the desired group.
- Press the *More Info/+* button again to display a list of Level 4 groups; use the up and down buttons to select the desired group.
- Continue pressing the *More Info/+* button until the desired group is reached. There are a total of 5 group levels.

Control

Once at the desired module/loop or device, press the Control soft key. Use the Control menu to:

- Arm and disarm devices, inputs and outputs
- Energize and de-energize outputs
- Change, enable or bypass ASD (Application Specific Detection)
- Change sensitivity settings
- Clear, disable or enable history
- Activate and deactivate device inputs to logic
- Set time and date

Enter Password

If the appropriate level password has not been previously entered or if it has timed out, the Enter Password screen displays, as shown in Figure 3-1. Enter your password using the touch screen and then press *Done.*

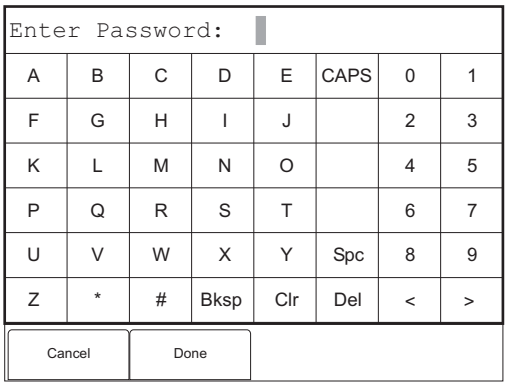


Figure 3-1
Enter Password Screen

User passwords can be changed in the Zeus Programming Tool. There are five levels of passwords for PMI access, as shown in the table that follows.

PASSWORD LEVELS

Level	Provides access to:	Use
1	Acknowledge, Silence, Unsilence, Reset	Optional
2	Function Keys	Optional
3	Reports	Optional
4	Walktest	Always Required
5	Control/Maintenance Menu	Always Required

NOTE The password will time out after five minutes of inactivity in the Control menu.

When the password is accepted, the screen displays several options which can be selected using the Touch Screen. See Figure 3-2.

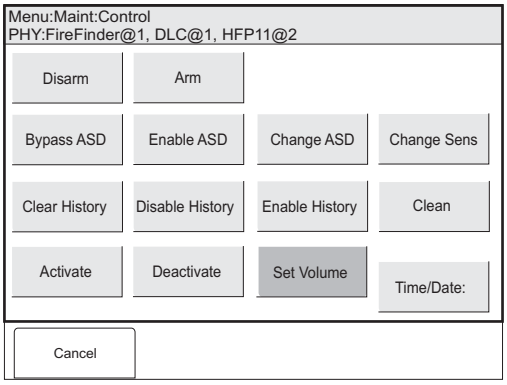


Figure 3-2
Maintenance:Control Options

Control - Time / Date

Touch the Time/Date box to change the time and/or date. Use the keyboard screen to select the correct digits as the cursor moves along. The time is set according to the 24-hour clock. To advance forward without changing a digit, press >. To go backward without changing a digit, press<. When the time and date are correct, press the Done soft key. Refer to Figure 3-3.

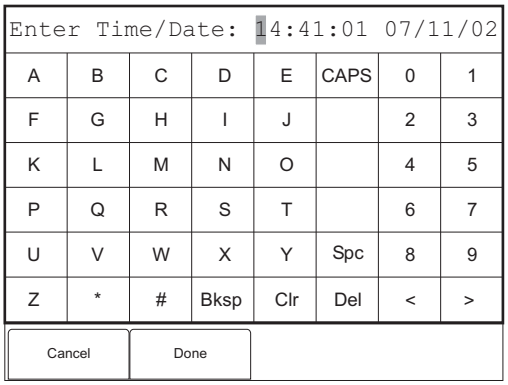


Figure 3-3
Enter Time / Date Screen

Control - Disarm / Arm

Use Control Disarm/Arm to disarm or arm the operation of any of the following:

DLC DEVICE		MLC DEVICE
Inputs (Components*)		Inputs
Smoke/Photo	Switch 1	All inputs or none
Thermal	Switch 2	
Neural		
CO		
Outputs (Components*)		Outputs
Relay 1	LED	Relay 1
Relay 2, 3, 4 (FDCIO422)		
*A trouble is reported for each disarmed component.		

When a device or its input components are disarmed, they do not report events or effect output logic. The output components are not controlled by output logic.

When a device or its output components are energized, they are activated and turned on. When a device or its output components are de-energized, they are de-activated and turned off.

NOTE

VESDA devices do not have the selectable components that DLC and MLC devices have. The user can only Disarm/Arm a "whole" VESDA device.

WARNING

Control-Disarm/Arm must not be used to silence alarm-sounding appliances.

Using The Disarm Feature

Navigate to the desired device (Physical View) or group (Geographic View) using the *More Info/+* and — (PMI) or (ESC) (PMI-2) buttons, select the *Control* option by pressing the Control soft key and then "Touch" the box labeled *Disarm.*

The Disarm Devices screen displays showing the location. See Figure 3-4. In this example, *AT: FireFinder-XLS@1, DLC@1, HFP11@2,* where:

- *FireFinder@1*—Node 1 of the FireFinder System
- *DLC@1*—the DLC module at address 1
- *HPF11@2*—the HFP-11 detector at device address 2

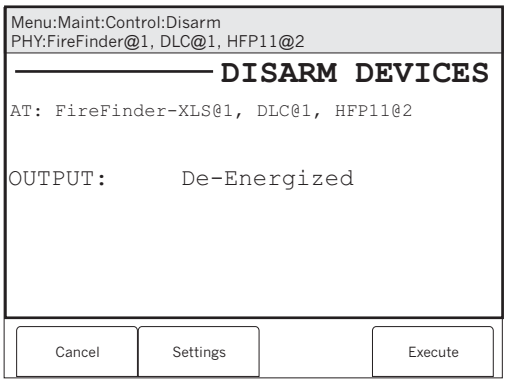


Figure 3-4
Maintenance: Control: Disarm Devices Screen

NOTE

The Settings soft key will be grayed out for VESDA devices.

To disarm all elements associated with the device, press the Execute soft key.

To select individual components associated with the device, press the Settings soft key.

Touch the desired Devices, Inputs or Outputs box to select it. See Figure 3-5. This screen is context-sensitive and will allow you to select only those items which are applicable. (If you select the wrong item, touch the box you wish to select.)

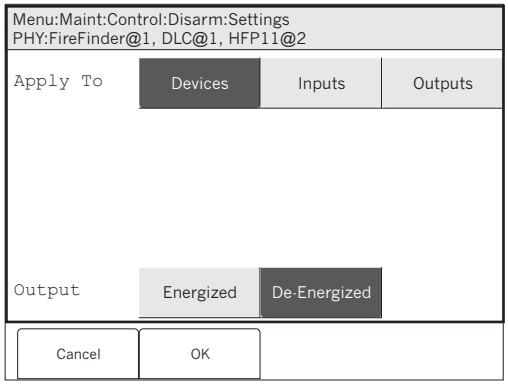


Figure 3-5
Maintenance:Control Mode: Disarm Settings

Inputs

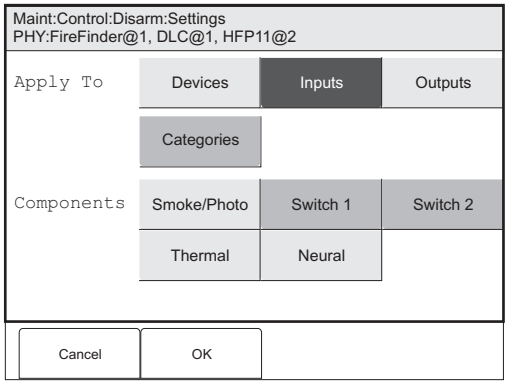


Figure 3-6a
Disarm Inputs Settings - DLC

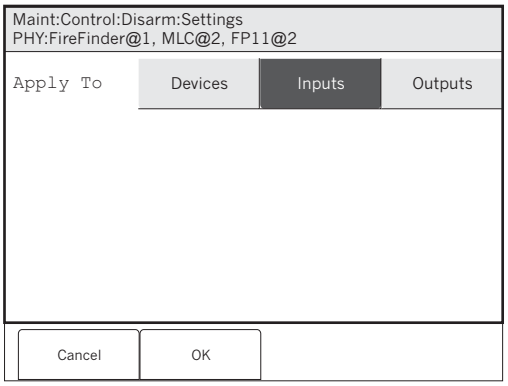


Figure 3-6b
Disarm Inputs Settings - MLC

NOTE

At this point, the components that were selected are not yet disarmed.

The Disarm Inputs status screen returns. See Figures 3-7a, 3-7b and 3-7c. The components that were selected are now listed in the Components section of the screen. In Figure 3-7a, they are Smoke/Photo; in Figure 3-7b, they are All Inputs; in Figure 3-7c, it is the entire device. Press the Execute soft key to disarm the selected components/inputs/device.

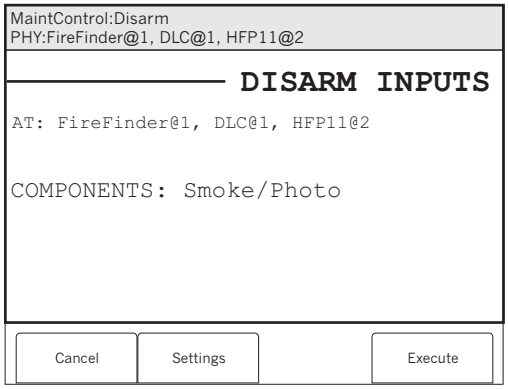


Figure 3-7a
Disarmed Inputs Status Screen - DLC

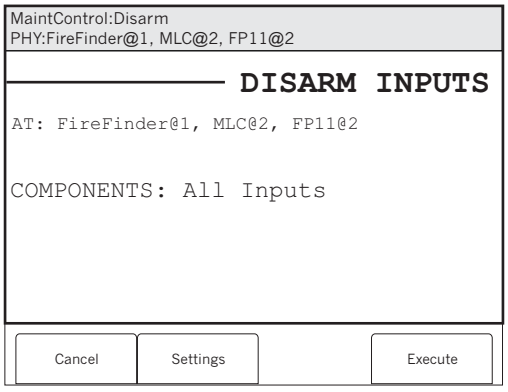


Figure 3-7b
Disarmed Inputs Status Screen - MLC

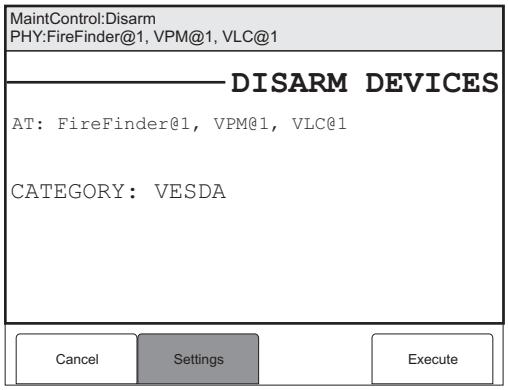


Figure 3-7c
Disarmed Inputs Status Screen - VESDA

When the device is disarmed, a trouble reports on the system indicating exactly what has been disarmed and the Partial System Disable LED glows steady yellow.

NOTE

When you return to the system tree in Control/Maintenance, partially disarmed modules/devices are graphically shown with the symbol ◗ in the far left column and fully disarmed devices are shown with the symbol ● in the far left column. (Refer to Figure 3-8.)This screen is the same for both DLC, MLC and VPM (VESDA) devices.

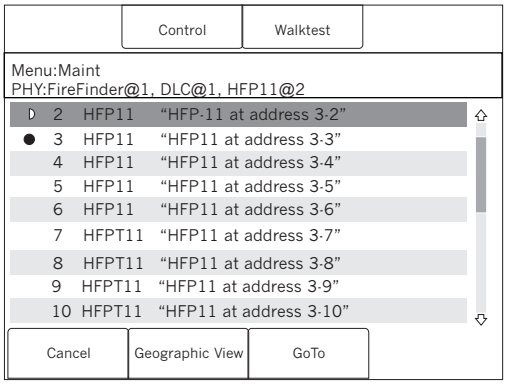


Figure 3-8
Disarmed Devices in Maintenance Menu System Tree

Outputs

When the Outputs box is selected for DLC devices, the components section of the screen displays the items that can be chosen. When the Outputs box is selected for MLC devices, no components are available for individual selection—if Outputs is selected, all MLC outputs are included. See Figure 3-9a for DLC devices and 3-9b for MLC devices. Items that can not be chosen are grayed out. (In Figure 3-9a, LED is grayed out.) Make a selection of the components you wish to disarm, then press the OK soft key.

NOTE

The Output Disarm feature is not available for VESDA detectors.The PMI has no control over the VESDA output relays.

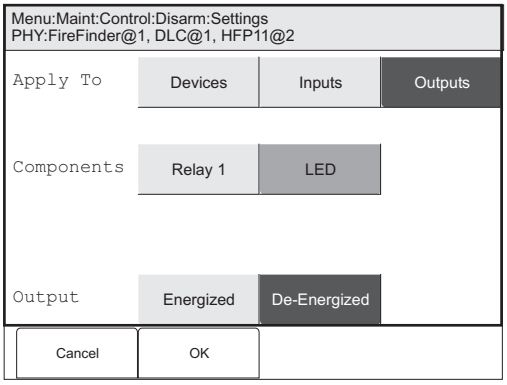


Figure 3-9a
Disarm Outputs Settings - DLC

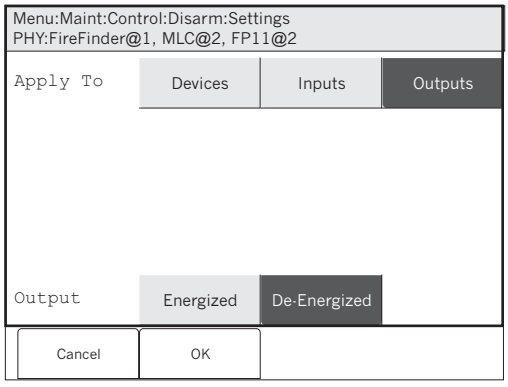


Figure 3-9b
Disarm Outputs Settings - MLC

Energize/De-energize

In this screen you also have the option to Energize or De-energize the outputs.

The Disarm Outputs status screen returns. The components that were selected are listed in the Components section of the screen (See Figures 3-10a and 3-10b.) In this example for a DLC device, the Component is Relay 1, and the Output is De-Energized. For the MLC device, the Component is All Outputs and the Output is De-Energized.

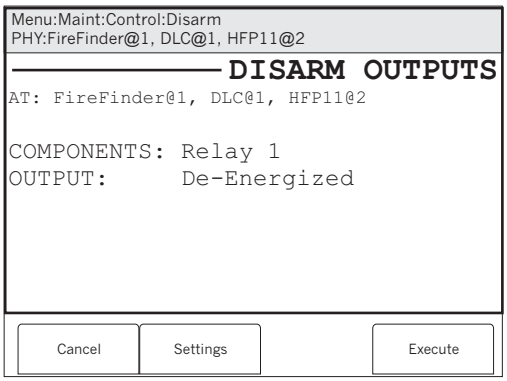


Figure 3-10a
Disarm Outputs Status Screen - DLC

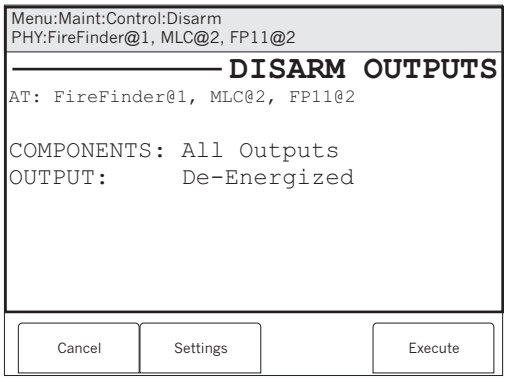


Figure 3-10b
Disarm Outputs Status Screen - MLC

NOTE

At this point, the components that were selected are not yet disarmed.

Press the Execute soft key to disarm the selected components.

When the devices are disarmed, a trouble reports on the system indicating exactly what has been disarmed and the Partial System Disable LED glows steady yellow.

Using The Arm Feature

Navigate to the desired device using the *More Info/+* and — (PMI) or (ESC) (PMI-2) buttons, select the Control option by pressing the Control soft key and then Touch the box labeled Arm.

The Arm Devices screen displays showing the location (In this example, AT: FireFinder@1, DLC@1, HFP11@2). See Figure 3-11.

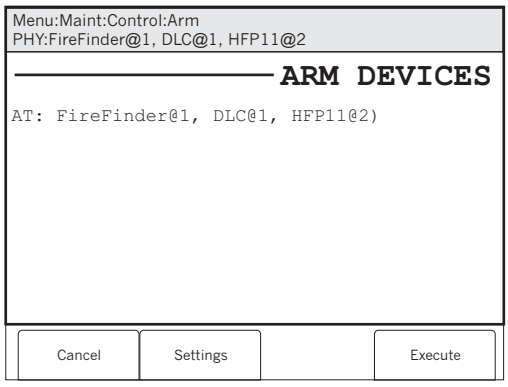


Figure 3-11
Arm Devices Screen

To arm all elements associated with the device, press the Execute soft key.

To select individual components associated with the device, press the Settings soft key.

Touch the desired Devices, Inputs or Outputs box to select it. See Figure 3-12. This screen is context-sensitive and will allow you to select only those items which are applicable. (If you select the wrong item, touch the box you wish to select.)

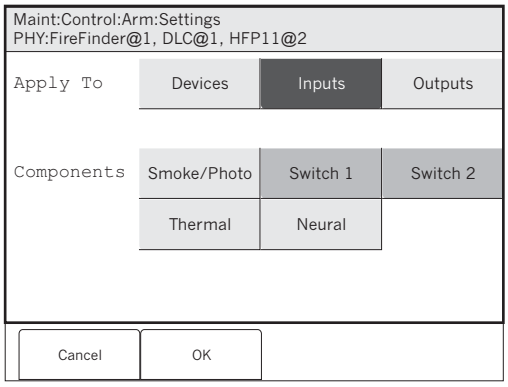


Figure 3-12a
Arm Inputs Settings - DLC

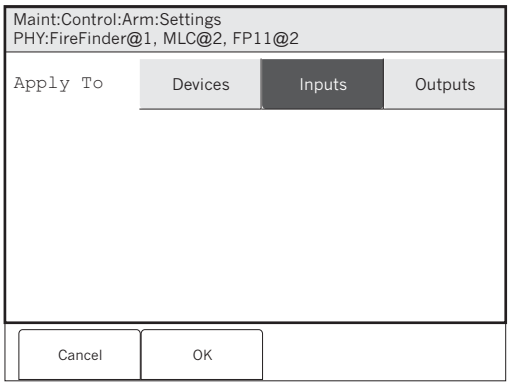


Figure 3-12b
Arm Inputs Settings - MLC

Inputs

When the Inputs box is selected for DLC devices, the components section of the screen displays the items that can be chosen. When the Inputs box is selected for MLC devices, no components are available for individual selection—if Inputs is selected, all MLC inputs are included. See Figure 3-12a for DLC devices and 3-12b for MLC devices. Items that can not be chosen are grayed out. (In Figure 3-12a, Switch 1 and Switch 2 are grayed out.) Make a selection of the components you wish to arm, then press the OK soft key.

NOTE

At this point, the components that were selected are not yet armed.

The Arm Inputs status screen displays. See Figures 3-13a and 3-13b. The components that were chosen are now listed in the Components section of the screen. In Figure 3-13a, they are Smoke/Photo, Thermal; in Figure 3-13b, they are All Inputs. Press the Execute soft key to arm the selected components.

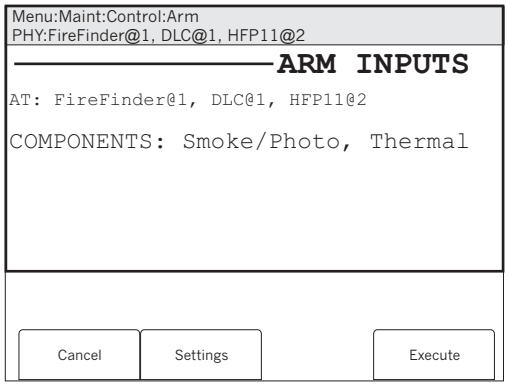


Figure 3-13a
Arming Selected Inputs - DLC

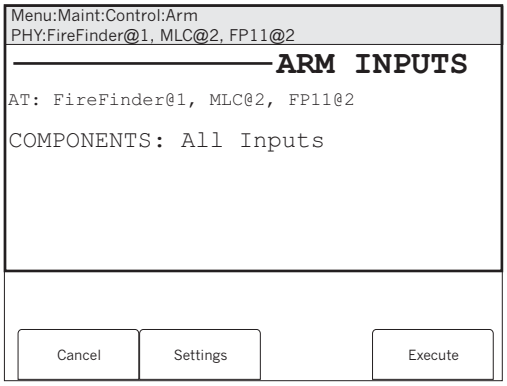


Figure 3-13b
Arming Selected Inputs - MLC

Outputs

When the box labeled Outputs is selected for DLC devices, the components section of the screen displays the items that can be chosen. When the Outputs box is selected for MLC devices, no components are available for individual selection—if Outputs is selected, all MLC outputs are included. See Figure 3-14a for DLC devices and 3-14b for MLC devices. Items that can not be chosen are grayed out. (In Figure 3-14a, LED is grayed out.) Make a selection of the components you wish to arm, then press the OK soft key.

NOTE

The Arm Output feature is not available for VESDA detectors. The PMI has no control over the VESDA output relays. There are no Arm Output menus for VESDA detectors.

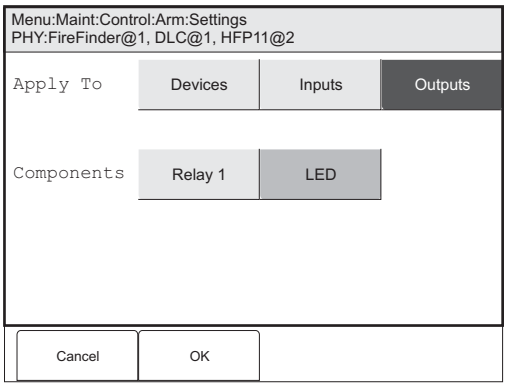


Figure 3-14a
Arm Outputs Settings - DLC

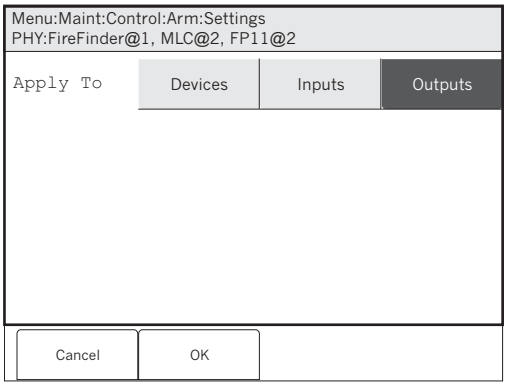


Figure 3-14b
Arm Outputs Settings - MLC

NOTE

At this point, the components that were selected are not yet armed.

The Arm Outputs status screen returns. See Figures 3-15a and 3-15b. The components that were selected are listed in the Components section of the screen. In Figure 3-15a, the component is Relay 1; in Figure 3-15b, they are All Outputs. Press the Execute soft key to arm the selected component.

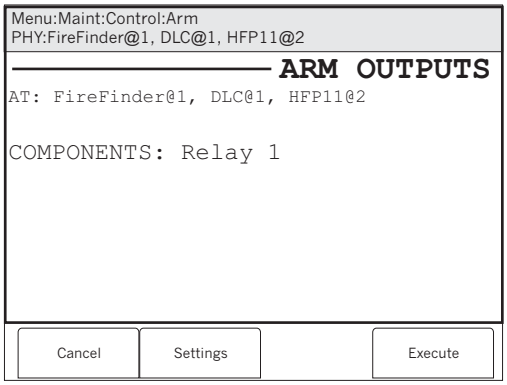


Figure 3-15a
Arming Selected Outputs - DLC

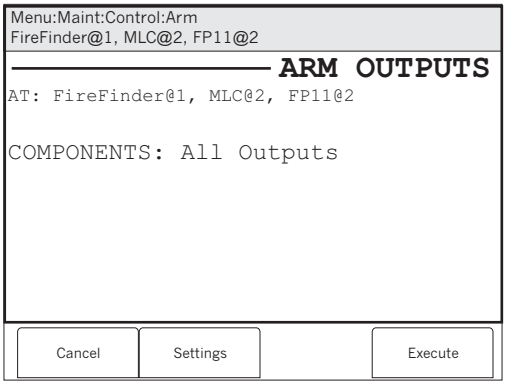


Figure 3-15b
Arming Selected Outputs - MLC

Control - ASD

While in the Maintenance mode, navigate to the desired module/loop or device by pressing the *More Info/+* or — (PMI) or (ESC) (PMI-2) buttons.

NOTE

Change ASD can only be performed at the device level (Physical view) and Bypass ASD can only be performed at the module (DLC or MLC) level. These operations will appear grayed out on the PMI when the system is set at any other level.

Press the Control soft key. [If the appropriate level password has not been previously entered or if it has timed out, the Enter Password screen displays. (See page 3-1.)] The Control menu displays. Touch the desired operation to either bypass, enable or change the ASD setting.

Bypass ASD

Touch the box labeled Bypass ASD and a screen displays showing the number of devices that will be bypassed. See Figure 3-16.

NOTE

At this point, the ASD setting has not been bypassed.

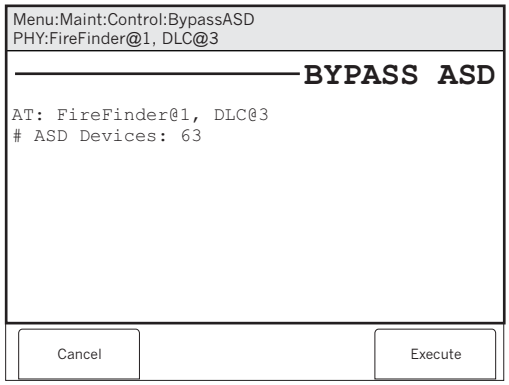


Figure 3-16
Bypass ASD Status Screen

Press the Execute soft key to bypass the ASD setting.

Enable ASD

To Enable ASD, follow the steps above in Bypass ASD, selecting the Enable setting instead of the Bypass setting.

Change ASD

To Change the ASD settings, you must first navigate to the device level using the *More Info/+* button. Then follow the steps above in Disable ASD, selecting the Change ASD setting instead of the Disable setting. Press the Settings soft key to display all the possible ASD settings. The current ASD setting is highlighted. See Figure 3-17.

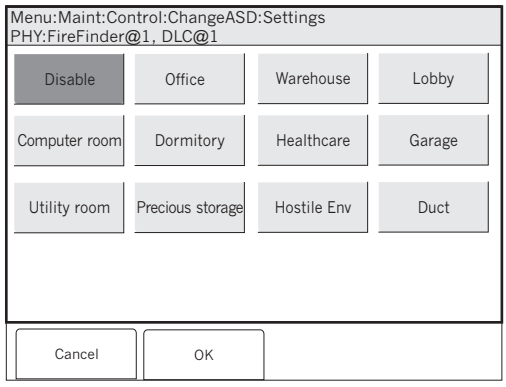


Figure 3-17
Change ASD Setting

Touch the box that represents the new ASD setting and press the OK soft key to select the changes. The Change ASD screen (Figure 3-18) displays to verify that the new setting has been selected.

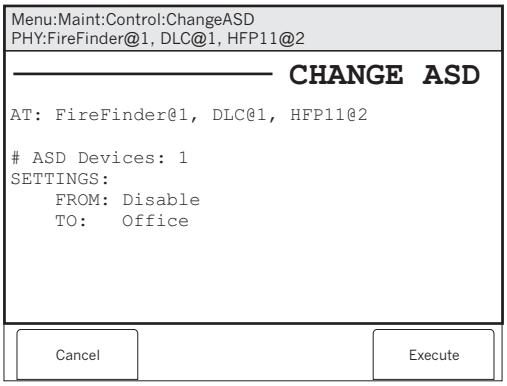


Figure 3-18
Change ASD Setting Status Screen

NOTE At this point, the ASD setting has not been changed.

Press the Execute soft key to change the ASD setting.

Control - Change Sens

Use the Change Sensitivity feature to change the sensitivity settings at the PMI for any chosen DLC or MLC device. Effective with PMI Rev. 8.01,/PMI-2 the sensitivity settings for DLC devices are shown as High 4, High 3, High 2, High 1, Normal, Low 1 or Low 2. They are no longer set using percent/ft. obscuration. MLC device sensitivity settings are shown as High3, High2, High1, Normal, Low1, Low2 or Low3. Refer to the Device Sensitivity %/Foot Settings Table for more information.

NOTE The sensitivity of VESDA devices cannot be changed by the user.

DEVICE SENSITIVITY %/FOOT SETTINGS									
DLC DEVICES					MLC DEVICES				
Setting	HFP-11	OH921/-FDOT4-21/OP9-21/FDO-421	OOH94-1/FDO-OT441/-OOHC9-41/FDO-OTC441		Setting	FPxx	ILPx	ILIx	ID60x
High 4	2.45%/ft				High 3	2.58%/ft	2.25%/ft	1.00%/ft	1.18%/ft
High 3	2.59%/ft				High 2	2.75%/ft	2.45%/ft	1.12%/ft	1.24%/ft
High 2	2.72%/ft				High 1	2.86%/ft	2.75%/ft	1.24%/ft	1.30%/ft
High 1	2.86%/ft	1.40%ft	2.50%ft		Normal	3.00%/ft	3.00%/ft	1.36%/ft	1.36%/ft
Normal	3.00%/ft	1.80%ft	3.00%ft		Low 1	3.13%/ft	3.26%/ft	1.48%/ft	1.42%/ft
Low 1	3.13%/ft	2.30%ft	3.50%ft		Low 2	3.26%/ft	3.50%/ft	1.60%/ft	1.48%/ft
Low 2	3.27%/ft				Low 3	3.40%/ft	3.75%/ft	1.72%/ft	1.53%/ft

While in Maintenance mode, navigate to the desired module/loop or device by pressing the *More Info/+* or — (PMI) or ESC (PMI-2) buttons.

NOTE Change Sensitivity operations can only be performed at the device level. These operations will appear grayed out on the PMI when the system is set at any other

level. They will also appear grayed out when an ASD setting is enabled for the device.

Press the Control soft key. (If the appropriate level password has not been previously entered or if it has timed out, the Enter Password screen displays. See page 3-1.) The Control menu displays. Touch the box labeled Change Sensitivity and a screen displays showing the current sensitivity setting. See Figure 3-19.

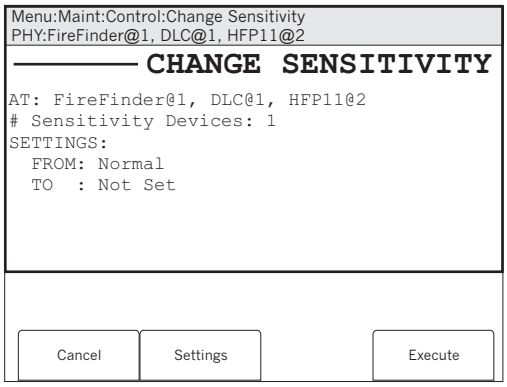


Figure 3-19
Change Sensitivity Screen

Press the Settings soft key to display the various options for DLC and MLC devices. See Figures 3-20a and 3-20b and the Device Sensitivity %/Foot Settings table on page 3-11.

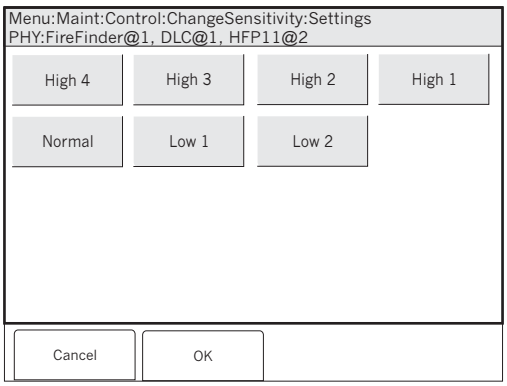


Figure 3-20a
Change Sensitivity Setting - DLC Device

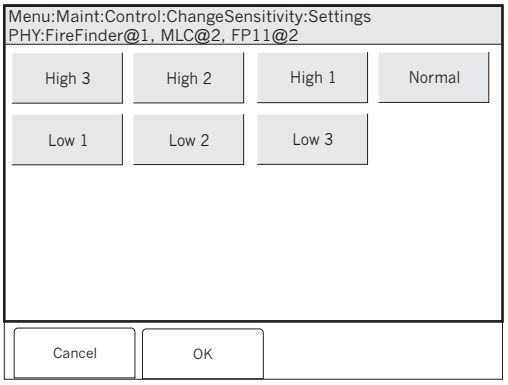


Figure 3-20b
Change Sensitivity Setting - MLC Device

Touch the box that represents the new sensitivity setting and press the OK soft key to select the changes. The Change sensitivity screen (Figure 3-21a and Figure 3-21b) displays to verify that the new setting has been selected.

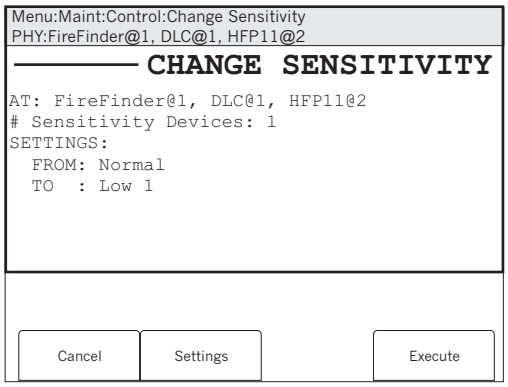


Figure 3-21a
Change DLC Sensitivity Setting Status Screen

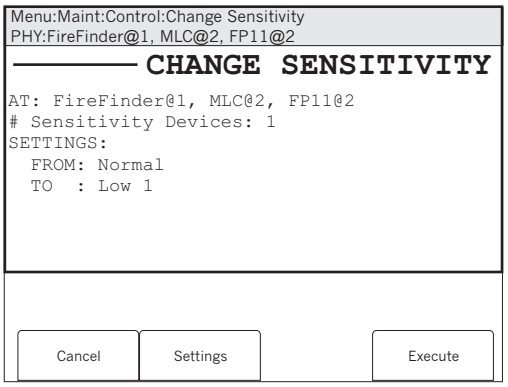


Figure 3-21b
Change MLC Sensitivity Setting Status Screen

NOTE

At this point, the Sensitivity setting has not been changed.

Press the Execute soft key to change the Sensitivity setting.

Control - Clear History

This option can only be accessed by a user with the highest password level. Touch the box labeled Clear History to erase any recorded History information, provided that this system option has been enabled in the Zeus tool. The screen displays the number of records that are currently recorded in the history file. Press the Execute soft key to erase the history information. See Figure 3-22.

NOTE

Use the Zeus tool to extract data for future reference before erasing the system's history, since once the history is erased it cannot be restored.

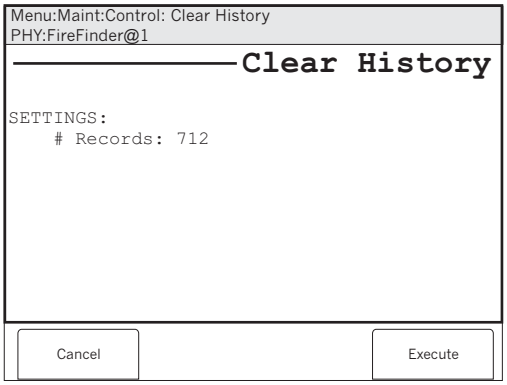


Figure 3-22
Clear History Screen

Control - Disable History

This option can only be accessed by a user with the highest password level. Touch the box labeled Disable History to turn off the recording of History, provided that this system option has been enabled in the Zeus tool. The screen displays the number of records that are currently recorded in the history file. Press the Execute soft key to stop recording new events from that point in time. See Figure 3-23.

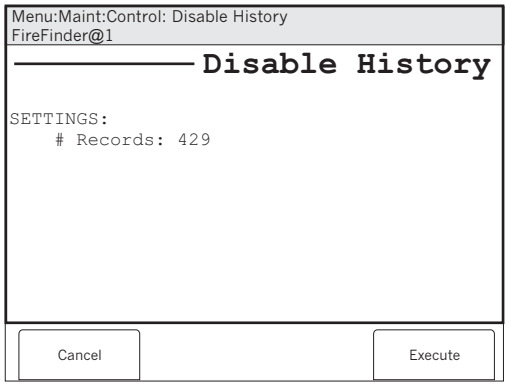


Figure 3-23
Disable History Screen

Control - Enable History

This option can only be accessed by a user with the highest password level. Touch the box labeled Enable History to turn on the recording of History, provided that this system option has been enabled in the Zeus tool. The screen displays the number of records that are currently recorded in the history file. Press the Execute soft key to begin recording new events from that point in time. See Figure 3-24.

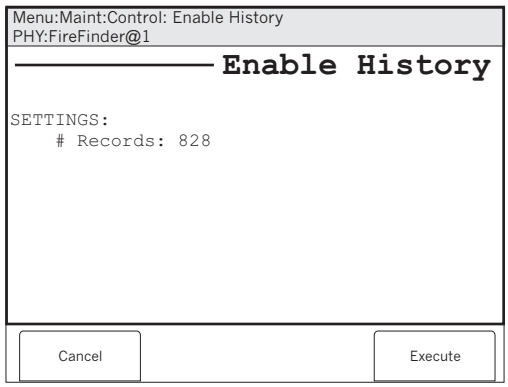


Figure 3-24
Enable History Screen

Activate/Deactivate

To use the Activate/Deactivate feature, navigate to the desired device (Physical View) using the *More Info/+* or — (PMI) or (ESC) (PMI-2) buttons, select the *Control* option by pressing the Control soft key and then "Touch" the box labeled *Activate (or Deactivate).* Note that this feature is available at the Device level only and is not available in Geographic View.

The Activate/Deactive Devices screen displays showing the location. See Figure 3-25. In this example, *AT: FireFinder-XLS@1, DLC@1, HFP11@2,* where:

- *FireFinder@1*—Node 1 of the FireFinder System
- *DLC@1*—the DLC module at address 1
- *HPF11@2*—the HFP-11 detector at device address 2

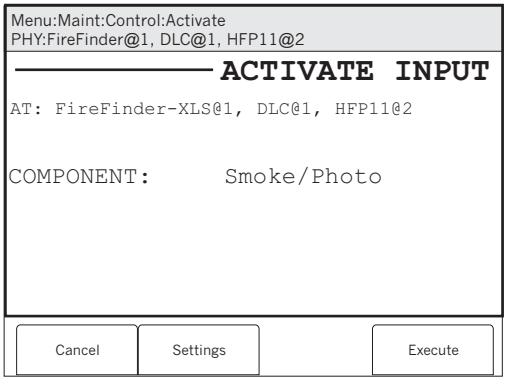


Figure 3-25
Maintenance: Control: Activate Inputs Screen

To select a component, press the Settings soft key.

Inputs

The components section of the screen displays the items that can be selected. See Figure 3-26a and 3-26b. Items that can not be selected are grayed out based on the device selected. (In Figure 3-26a, Switch 1 and Switch 2 are grayed out; in Figure 26b, Scan and Fire 2 are grayed out.) Make a selection of the component you wish to activate, then press the OK soft key. Note that the Activate/Deactivate feature works with DLC, MLC and VPM (VESDA) devices. For MLC devices, only FP-11 and MSI-2 series devices have multiple components that are selectable.

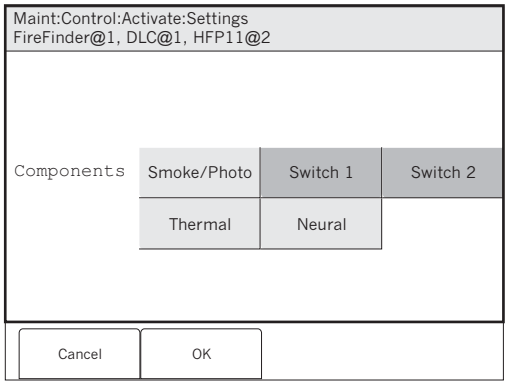


Figure 3-26a
Activate Input Settings - DLC and MLC

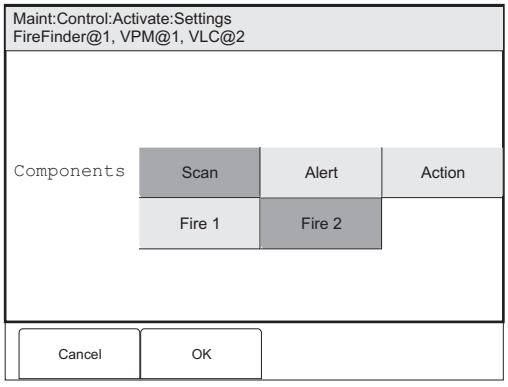


Figure 3-26b
Activate Input Settings - VPM (VESDA)

NOTE

At this point, the component that was selected is not yet activated.

The Activate Inputs status screen returns. See Figure 3-27. The component that was selected is now listed in the Components section of the screen. In this example, it is Smoke/Photo. Press the Execute soft key to activate the selected component.

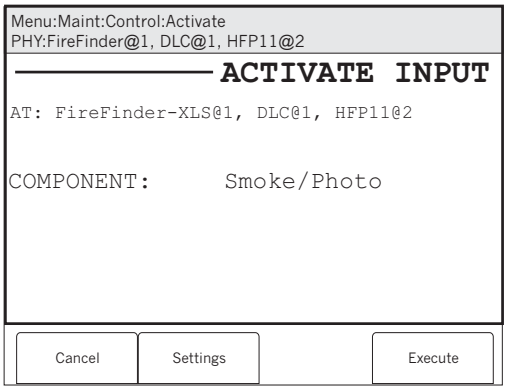


Figure 3-27
Activate Input Status Screen

When the device is activated, an event reports on the system exactly as if the device component were activated at the device.

NOTE When a device is activated, associated synch logic will occur.

To reverse the process, use the Deactivate feature.

WALKTEST

A Walktest of the FireFinder-XLS System enables a qualified technician to test the operation of a specific portion of input points on a system while allowing the remainder of the system to function normally. A Walktest can be performed by Group (Geographic view) or by DLC/MLC/VPM/SIM/HZM/CDC (Physical view). Walktest events are annunciated on the PMI and logged into the Walktest Log. Testing can be silent or with audible feedback on all input devices on a DLC module, MLC module, VPM module, SIM inputs, HZM zones, and CDC zones. The following device usages can be walktested:

DEVICE USAGES THAT CAN BE WALKTESTED			
Alarm	Supervisory	Security	Trouble
Status	Waterflow	Releasing	OSY

When a walktest is started, only devices/components with usages listed above are walktested. Other usages will operate normally. For example, if Switch 1 of an HTRI-D is set to Alarm and Switch 2 is set to Fan Monitor On, then Switch 1 will generate a Walktest event while Switch 2 will not. Any logic functions which use Switch 2 will execute.

A device placed in Walktest is disconnected from its usual functions. Alarm causing devices in Walktest do NOT cause alarms until the Walktest is disabled or has timed out.

A Walktest cannot be enabled if an Alarm or Supervisory exists in the system.

Suggested Procedure

In order to reduce the chance of problems, the following procedure must be followed before performing the Walktest.

1. Inform the person in charge of the FireFinder-XLS System that a Walktest is to be performed and that part or all (if there is only one DLC, MLC or VPM) of the fire detection system will be disabled.

It is strongly advised (and may be required) to notify the fire department of the test.

2. Obtain a printout of the device types and custom messages for the groups or modules to be walktested by using the FireFinder-XLS Report menu.
   a. Press the menu button.
   b. The FireFinder tree structure screen displays.
   c. If you wish to Walktest by Groups, go to the Geographic View (GEO). If you wish to Walktest by DLC, MLC, VPM, SIM, HZM, CZM-1B6 or CDC, go to the Physical View (PHY).
   d. In Geographic View, drill down to the group you plan to test. In Physical View, drill down to the DLC, MLC, VPM, SIM, HZM, CZM-1B6 or CDC you plan to test.
   e. Press the Configuration soft key. Press Cust Msg on the touch screen. Press the Settings soft key and select All on the touch screen, then press the View soft key. Press the Print soft key to print out the report.
   f. Print out the Cust Msg report for all groups/DLCs/MLCs/VPMs/SIMs/HZMs/CZM-1B6s/CDCs to be Walktested.
3. Review the list(s) with the person in charge of the fire protection equipment to ensure that the custom messages provide adequate information for locating and testing the devices in question.
4. Initiate Walktest. Test devices in a predetermined, orderly sequence. Do not test any devices that are not in the Walktest, as this will cause an alarm in the system and cancel the Walktest.
5. In order to reduce the possibility of a false alarm, do not perform any Walktest activations for at least 5 minutes prior to the expiration of the Walktest or the planned cancellation time. Ensure that all tested devices are cleared prior to terminating the Walktest.
6. When the Walktest is completed (timed out/disabled), acknowledge the WALKTEST ACTIVATED trouble condition and reset the panel.

Initiating The Walktest

Walktest is initiated from the Maintenance menu. Select either Physical or Geographic view and drill down to the module [DLC, MLC, VPM, CDC, HZM (drill down from DLC), CZM-1B6 (drill down from MLC), SIM (drill down from NIC)] or group to be walktested. Press the Walktest soft key. Enter the Walktest password. The Walktest Status Screen (Figure 3-28) displays.

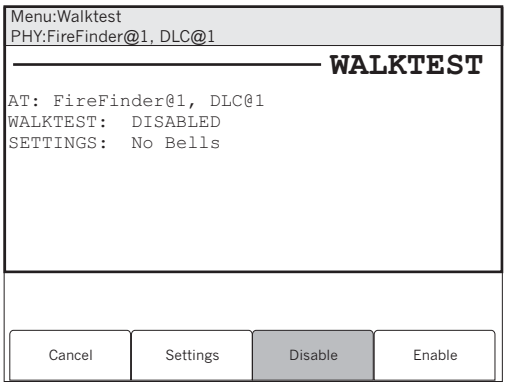


Figure 3-28
Walktest Status Screen

Press the Settings soft key to select the Walktest bell options (Figure 3-29). Choose from No Bells (the default setting), All Bells or Group Bells (Geographic view only), then press the OK soft key.

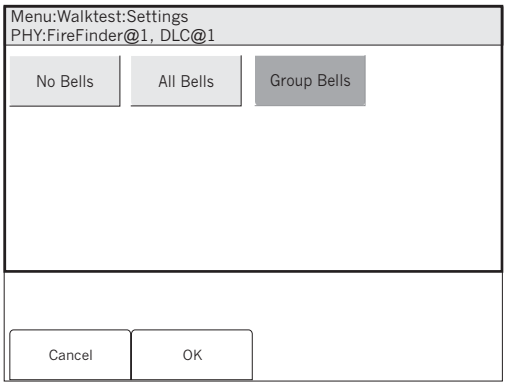


Figure 3-29
Walktest Settings Screen

Press the Enable soft key to begin the Walktest. The Trouble LED flashes and the Walktest Enabled screen displays (See Figure 3-30). If a printer is installed, the trouble is also printed on the report printer. The PMI Trouble Event Screen will display one trouble for each DLC, MLC or VPM placed in Walktest (ASD disabled for test) and one trouble showing the Control Panel in Walktest.

The Walktest status screen indicates the time remaining in Walktest. The time is indicated as HH:MM (hours:minutes).

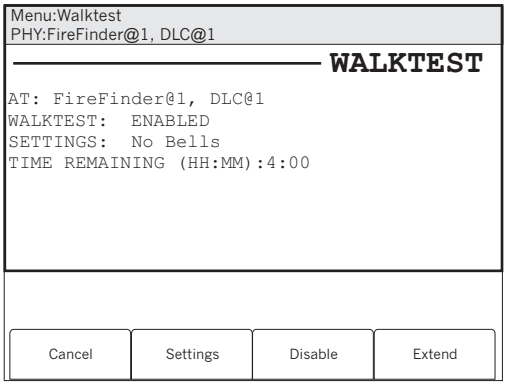


Figure 3-30
Walktest Enabled Screen

NOTE

Only one Walktest may be active on a system at any one time.

Walktesting Groups

When a Walktest is performed on a Geographic group, all walktestable devices in the group are placed in walktest. All non-walktestable devices are not affected.

The Group Bells mode is available when walktesting groups. When this option is selected, all applicable ZIC/voice devices in that group will activate. This will enable the technician to walktest all devices on a floor, and have only the audibles on that floor activate, provided the system is configured in floor-specific groups.

Duration And Termination

Once enabled, the Walktest remains in effect for four hours. At any time during the Walktest, the user may extend the Walktest by pressing the Extend soft key on the Walktest status screen. This will reset the Time Remaining to four hours. The Walktest may be extended up to four times.

The user may cancel the walktest at any time by pressing the Disable soft key on the Walktest status screen. After returning to the Alert Screen, Acknowledge the "Walktest Activated" trouble and reset the panel.

NOTE

If there is no activity acknowledging Walktest events on the PMI for five minutes, the display will default to the Alert mode and the remaining time will display on the Alert mode screen. The Walktest remains in effect until the time expires or the Walktest is disabled. To view the Waltkest status screen, however, the Walktest password must be entered again.

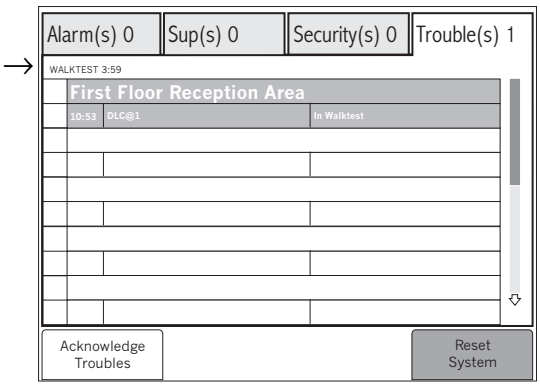


Figure 3-31
Walktest Time Remaining In Alert Mode

Upon termination, whether manual or automatic, Alarm events are reported for all devices remaining in alarm after the walktest is terminated.

CAUTION

In order to ensure that devices return to normal state before the test ends, do not perform any Walktest activations for at least 5 minutes prior to the expiration of the Walktest or the planned cancellation time. In order to reduce the possibility of a false alarm, ensure that all tested devices are cleared prior to terminating the Walktest.

NOTE

The Walktest is automatically terminated if an Alarm or Supervisory occurs during the test to a device that is not being walktested.

CAUTION

After the Walktest is terminated for any reason, the "Walktest Activated" trouble will remain posted IN on the PMI and full detection functionality will not be restored until the panel is reset.

Event Annunciation

Walktest events are annunciated on the PMI in a pop-up box (See Figure 3-32). The user may press Close on the touch screen to clear the box, or the box will time out after 30 seconds. When bells are enabled, the audibles will sound for five seconds. (When Group Bells are activated, only audibles in the group being tested will sound. When All Bells has been selected, all audibles are activated when a device is walktested.)

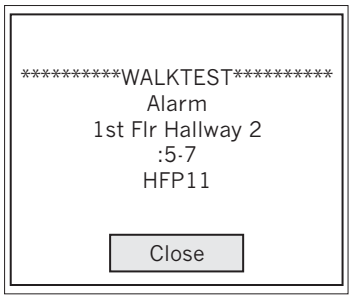


Figure 3-32
Walktest Pop-up Box

When No Bells is selected, there is no audible notification of Walktest events.

There is no event-type coding during the Walktest. Audible notification is the same for Alarm, Supervisory, Security and Trouble events.

If the system has a report printer, Walktest events will be printed with the Walktest designation "WT" and the event type. The Walktest event types are as follows:

WALKTEST EVENT TYPES	
Event Type	**Printer Designation**
Alarm	WT ALM
Supervisory	WT SUPV
Security	WT SEC
Trouble	WT TRBL
Status	WT STAT

Trouble conditions will continue to be reported for devices in Walktest.

Walktest Ending Sequence

Five minutes before the end of the Walktest, a 15-second audible activation occurs. When the Walktest is set for Group Bells, only audibles located in the group being tested will sound; when set for All Bells, all of the audibles will sound. When the Walktest is set for No Bells, only the strobes will activate. The audibles will sound in a two seconds on - one second off pattern. The strobes will be on steady and will be either synchronized or unsynchronized, depending on the system setting.

Do not perform any further Walktest activations after the 5-minute warning or 5 minutes prior to the expiration of the Walktest or the planned cancellation time.

Forty-five seconds before the end of the Walktest, a 45-second audible activation occurs. When the Walktest is set for Group Bells, only audibles located in the group being tested will sound; when set for All Bells, all of the audibles will sound. When the Walktest is set for No Bells, only the strobes will activate. The audibles will sound in a two seconds on - one second off pattern. The strobes will be on steady and will be either synchronized or unsynchronized, depending on the system setting.

Zone coding will not be performed during a Walktest.

Voice Activations

The volume for the Walktest channel is set low. During Walktest, speaker zones are activated steady. The duration for each activation type is the same as for ZIC activation.

The tone specified for Walktest is File 1 Tone 1. The user may program a tone or message to that tone location using the Zeus programming tool. Use caution when selecting the tone or message. An inappropriate tone or message during a Walktest might be disruptive.

Walktest Event Log

A maximum of 5000 Walktest events will be stored in flash memory for reporting. Walktest events are automatically stored. The storage cannot be disabled by the user.

Since a full walktest inspection of a system may be performed over a period of days, weeks and/or months, the Walktest log remains in memory between individual Walktest sessions. The Walktest log will also persist through database changes, although not all data will be available for Walktest events from prior databases.

The user may manually erase the Walktest log at the PMI by selecting Report, Status, Walktest, Clear Log.

CAUTION

Once the Clear Log soft key is pressed, the Walktest log is erased from memory and cannot be recovered.

NOTE

When the Walktest event log is full, the panel automatically erases the data. The most recent 10% of the data is preserved in the new log. Since Walktest data will be lost if the log is allowed to fill, the user is encouraged to extract the data, generate reports, and clear the log before it fills. The capacity is intended to allow a full test of all points on a system to be performed and logged.

Walktest Reports

Use the Walktest report feature to show which devices(s) have been tested. Using the Report, Status, Walktest menu on the PMI, a report can be specified for a list of all devices tested (complete log) or a list of all devices tested between a specified time range.

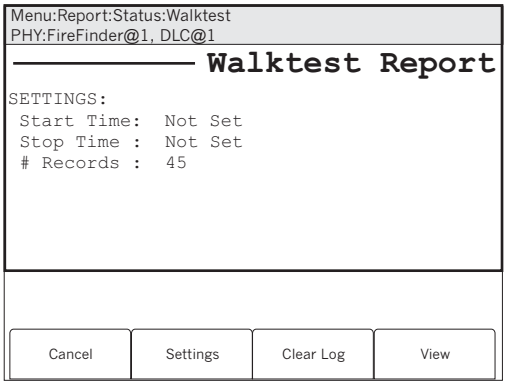


Figure 3-33
Walktest Report Screen

For a Walktest Report of all devices tested, press the View soft key. Press the Settings soft key to set the Start Time and Stop Time for a Walktest Report. This screen may also be used to clear the Start and Stop Times. The Walktest Report Settings screen displays, as shown in Figure 3-34.

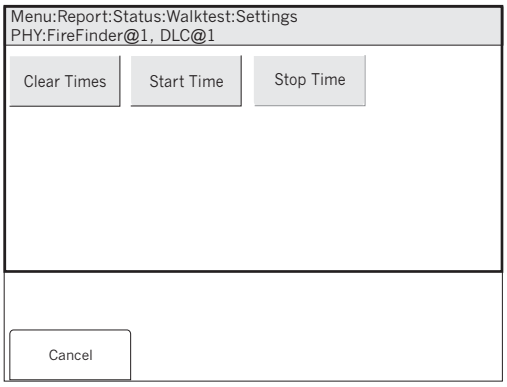


Figure 3-34
Walktest Report Settings Screen

After selecting the desired settings for the report, press the View soft key. The Walktest Report status screen displays, similar to the one shown in Figure 3-38.

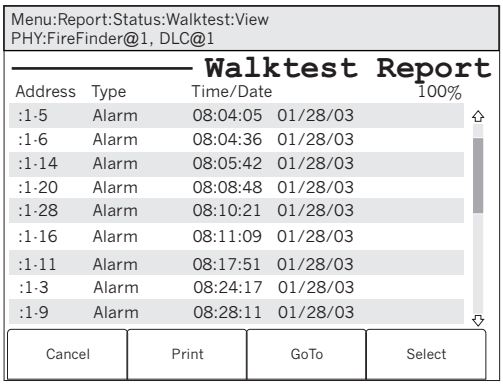


Figure 3-35
View Sample Walktest Report Screen Page 1

Press the Select soft key to toggle the screen to the Custom Messages for the devices that have been walktested. Refer to Figure 3-36.

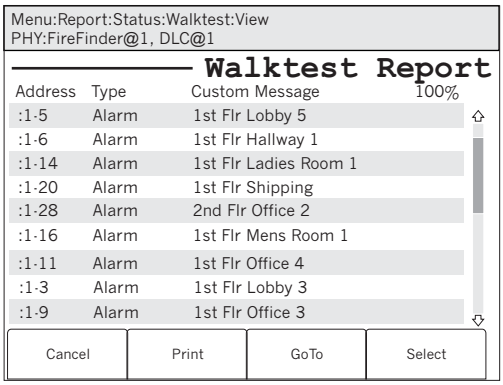


Figure 3-36
View Sample Walktest Report Screen Page 2

In the Zeus programming tool, a report can be generated from the Tools menu showing devices that have been walktested and those that have not been walktested. In order to view the report, the user must transfer the walktest information from the panel to a PC. Refer to the Zeus programming tool on-line help for further information.

4

FUNCTION KEYS

If Functions keys have been programmed in the Zeus tool, they can be accessed in the Menu mode by pressing the Function soft key. The Function Key status screen appears with a listing of all the functions. See Figure 4-1. To perform a desired function, highlight the function using the up and down arrow keys and then press the Execute soft key.

NOTE

Function keys are momentary. If you want the associated outputs to be maintained, use a latching function when you design logic in the Zeus programming tool.

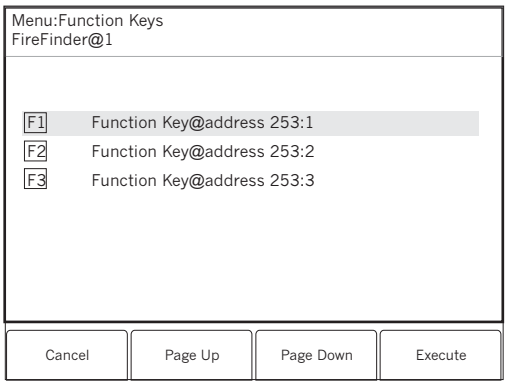


Figure 4-1
Selecting Function Keys

LOGOUT

Use the logout feature to leave the password protected area. Press the Logout soft key to log out of Control mode. The Logout label grays out and the green LED turns off to indicate that logout is completed. See Figure 4-2.

NOTE

The PMI will automatically logout the user after 5 minutes of inactivity.

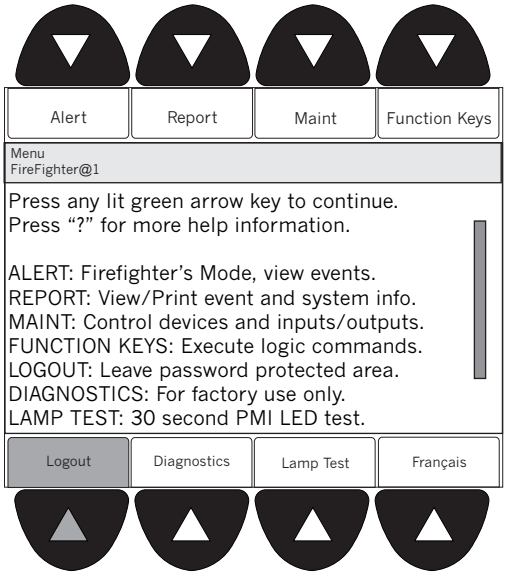


Figure 4-2
PMI Menu Screen - Logout

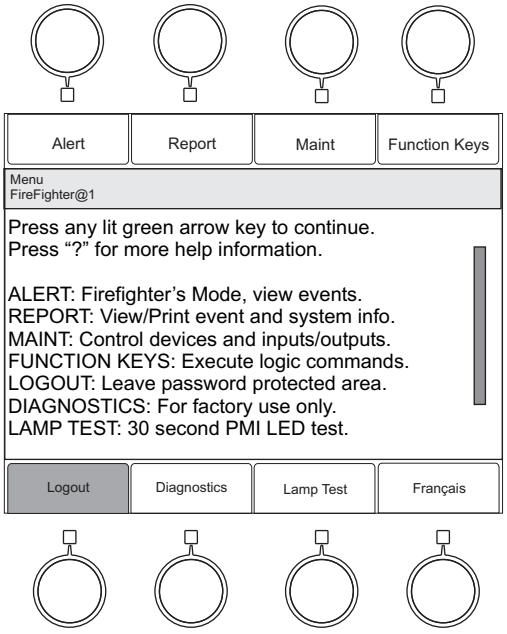


Figure 4-3
PMI-2 Menu Screen - Logout

DIAGNOSTICS

Diagnostics displays a series of statistics typically used by Siemens Industry, Inc. to evaluate the operation of the system.

LAMP TEST

Press the menu button to display the PMI Menu Screen. Next, press the Lamp Test soft key at the bottom of the screen. See Figure 4-2 for PMI and Figure 4-3 for PMI-2.

The Lamp Test begins and will run for 30 seconds. All of the LEDs on the PMI will illuminate and the screen will go dark. (You can exit the Lamp Test at any time by pressing the Menu Button.)

ALTERNATE LANGUAGE

When both a base language and an alternate language are selected in the Zeus programming tool, the PMI will display a "language" soft key on the Main Menu screen. Pressing this key will toggle to the language indicated on the button label. For example, if English is the base language and French is the alternate language, pressing the button "Français" will toggle the panel display to French. See Figure 4-2 for PMI and Figure 4-3 for PMI-2.

A

VESDA TROUBLE CODES

The table below lists the VESDA Trouble codes that can be reported on the PMI. Unless otherwise noted, troubles are reported from the base address of a VESDA detector or the Vscanner element of a VESDA scanner.

HLI Fault ID (VESDA)	VESDA PMI Messages Report As	XLS Trouble Code	Reported By	Fault Description
0	Aspirator Fault	329	Base Dev	Aspirator failed
8	Aspirator Fault	329	Base Dev	Aspirator speed control failure
1	Battery Fault	64		Power supply battery failed
12	Config Fault	337	Base Dev	Zone setup = factory defaults
14	Config Fault	337	Base Dev	Flow sensors = factory defaults
28	Config Fault	337	Base Dev	Scanner option misconfigured
29	Config Fault	337	Base Dev	Manufacturer setup corrupted
30	Config Fault	337	Base Dev	Relay config = factory defaults
31	Config Fault	337	Base Dev	Relay state = factory defaults
33	Config Fault	337	Base Dev	User list = factory defaults
34	Config Fault	337	Base Dev	Detector setup = factory defaults
35	Config Fault	337		Prgmr setup = factory defaults
37	Config Fault	337	Base Dev	Detector cal = factory defaults
57	Config Fault	337		Display setup = factory defaults
81	Config Fault	337		Default variant config
58	Detector Fault	330	Base Dev	Too many auto scans in one week
3	Detector Fault	330	Base Dev	Detector PIC failure
7	Detector Fault	330	Base Dev	Software fault found
10	Detector Fault	330		LED card on display not found
13	Detector Fault	330	Base Dev	More than one detector in zone
16	Detector Fault	330	Base Dev	Relays not found
23	Detector Fault	330	Base Dev	Laser signal too low
27	Detector Fault	330	Base Dev	AutoLearn aborted

HLI Fault ID (VESDA)	VESDA PMI Messages Report As	XLS Trouble Code	Reported By	Fault Description
32	Detector Fault	330	Base Dev	Detector clocks not synchronized
36	Detector Fault	330	Base Dev	Event log corrupt
38	Detector Fault	330	Base Dev	Detector EEPROM failure
55	Detector Fault	330		Power Supply ID No. duplicated
56	Detector Fault	330	Base Dev	Clock failed
59	Detector Fault	330	Base Dev	Fault test
65	Detector Fault	330	Base Dev	Incompatible SW version detected
70	Detector Fault	330		LC module reference misconfigured
71	Detector Fault	330		Too many LC modules in zone
72	Detector Fault	330		LC module setup = factory defaults
74	Detector Fault	330	Base Dev	Flow too high for detector
75	Detector Fault	330	Base Dev	Normalization failed
79	Detector Fault	330		Both numbers failed during a modem dial-out
80	Detector Fault	330		Default flow zero-point
77	Detector Fault	330	Base Dev	Normalizing
17	Device Not Responding	7***	Base Dev	No comms from Detector
4	Filter Fault	332	Base Dev	Filter removed
11	Filter Fault	332	Base Dev	Filter approaching capacity
73	Filter Fault	332	Base Dev	Filter clogged
76	Filter Fault	332	Base Dev	Filter replaced (not ACKed)
19	Flow Sensor	338*	VLS-VDET 4	Flow sensor failure pipe 4
20	Flow Sensor	338*	VLS-VDET 3	Flow sensor failure pipe 3
21	Flow Sensor	338*	VLS-VDET 2	Flow sensor failure pipe 2
22	Flow Sensor	338*	VLS-VDET 1	Flow sensor failure pipe 1
83	Minor Fault Valve Open	339*	VLS-VDET 1	Minor Fault Valve Open - Pipe 1
85	Minor Fault Valve Open	339*	VLS-VDET 2	Minor Fault Valve Open - Pipe 2
87	Minor Fault Valve Open	339*	VLS-VDET 3	Minor Fault Valve Open - Pipe 3
89	Minor Fault Valve Open	339*	VLS-VDET 4	Minor Fault Valve Open - Pipe 4

* These faults are for scanner pipes.
** These faults report different XLS codes depending on the HLI channel.
*** These faults represent a device not responding, cleared by a refresh. They are reported using the device ID method (0xFE).

HLI Fault ID (VESDA)	VESDA PMI Messages Report As	XLS Trouble Code	Reported By	Fault Description
40	Minor High Air Flow	340*	VLS-VDET 4	Minor high airflow - Pipe 4
44	Minor High Air Flow	340*	VLS-VDET 3	Minor high airflow - Pipe 3
48	Minor High Air Flow	340*	VLS-VDET 2	Minor high airflow - Pipe 2
52	Minor High Air Flow	340*	VLS-VDET 1	Minor high airflow - Pipe 1
41	Minor Low Air Flow	341*	VLS-VDET 4	Minor low airflow - Pipe 4
45	Minor Low Air Flow	341*	VLS-VDET 3	Minor low airflow - Pipe 3
49	Minor Low Air Flow	341*	VLS-VDET 2	Minor low airflow - Pipe 2
53	Minor Low Air Flow	341*	VLS-VDET 1	Minor low airflow - Pipe 1
6	Power Fault	334		Power supply DC output failure
15	Power Fault	334		AC mains failure
60	Power Fault	334		Battery charger failure
61	Power Fault	334		Power supply fuse failure
62	Power Fault	334		Power supply PIC failure
63	Power Fault	334		No comms from power supply
64	Power Fault	334		Power supply output relay failed
82	Urgent Fault Valve Closed	335*	VLS-VDET 1	Urgent fault valve closed - Pipe 1
84	Urgent Fault Valve Closed	335*	VLS-VDET 2	Urgent fault valve closed - Pipe 2
86	Urgent Fault Valve Closed	335*	VLS-VDET 3	Urgent fault valve closed - Pipe 3
88	Urgent Fault Valve Closed	335*	VLS-VDET 4	Urgent fault valve closed - Pipe 4
39	Urgent High Air Flow	333*	VLS-VDET 4	Urgent high airflow - Pipe 4
43	Urgent High Air Flow	333*	VLS-VDET 3	Urgent high airflow - Pipe 3
47	Urgent High Air Flow	333*	VLS-VDET 2	Urgent high airflow - Pipe 2
51	Urgent High Air Flow	333*	VLS-VDET 1	Urgent high airflow - Pipe 1
42	Urgent Low Air Flow	336*	VLS-VDET 4	Urgent low airflow - Pipe 4
46	Urgent Low Air Flow	336*	VLS-VDET 3	Urgent low airflow - Pipe 3
50	Urgent Low Air Flow	336*	VLS-VDET 2	Urgent low airflow - Pipe 2
54	Urgent Low Air Flow	336*	VLS-VDET 1	Urgent low airflow - Pipe 1
2	Vesda Network Fault	342/343**	Base Dev	Comms fault on Port A

* These faults are for scanner pipes.
** These faults report different XLS codes depending on the HLI channel.
*** These faults represent a device not responding, cleared by a refresh. They are reported using the device ID method (0xFE).

HLI Fault ID (VESDA)	VESDA PMI Messages Report As	XLS Trouble Code	Reported By	Fault Description
5	Vesda Network Fault	342/343**	Base Dev	Reference Detector lost
9	Vesda Network Fault	342/343**	Base Dev	Comms fault on Port B
18	Vesda Network Fault	342/343**	Base Dev	Too many displays in zone
24	Vesda Network Fault	342/343**	Base Dev	Cannot find Display/Relay
25	Vesda Network Fault	342/343**	Base Dev	Comms on Port A while open-ended
26	Vesda Network Fault	342/343**	Base Dev	Comms on Port B while open-ended
66	Vesda Network Fault	342/343**	Base Dev	Status report period too short
67	Vesda Network Fault	342/343**	Base Dev	Network delay too short
69	Vesda Network Fault	342/343**	Base Dev	Ref. detector has reference
68	VPM Fault	331		HLI setup - factory defaults
78	VPM Fault	331		Too many zones detected by HLI
---		0	Base Dev	Unknown trouble

* These faults are for scanner pipes.
** These faults report different XLS codes depending on the HLI channel.
*** These faults represent a device not responding, cleared by a refresh. They are reported using the device ID method (0xFE).

Index

L

M

N

P

Q

R

S

T

U

V

W

X

Z

This page has been left intentionally blank.

Siemens Industry, Inc.
Building Technologies Division
Florham Park, NJ

Siemens Canada Limited
Building Technologies Division
2 Kenview Boulevard
Brampton, Ontario L6T 5E4 Canada

P/N 315-033874-10