

6808

Addressable Fire Alarm Control Panel Installation and Operation Guide

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Fire Alarm & Emergency Communication System Limitations

While a life safety system may lower insurance rates, it is not a substitute for life and property insurance!

An automatic fire alarm system—typically made up of smoke detectors, heat detectors, manual pull stations, audible warning devices, and a fire alarm control panel (FACP) with remote notification capability—can provide early warning of a developing fire. Such a system, however, does not assure protection against property damage or loss of life resulting from a fire.

An emergency communication system—typically made up of an automatic fire alarm system (as described above) and a life safety communication system that may include an autonomous control unit (ACU), local operating console (LOC), voice communication, and other various inter-operable communication methods—can broadcast a mass notification message. Such a system, however, does not assure protection against property damage or loss of life resulting from a fire or life safety event.

The Manufacturer recommends that smoke and/or heat detectors be located throughout a protected premises following the recommendations of the current edition of the National Fire Protection Association Standard 72 (NFPA 72), manufacturer's recommendations, State and local codes, and the recommendations contained in the Guide for Proper Use of System Smoke Detectors, which is made available at no charge to all installing dealers. This document can be found at http:// www.systemsensor.com/appguides/. A study by the Federal Emergency Management Agency (an agency of the United States government) indicated that smoke detectors may not go off in as many as 35% of all fires. While fire alarm systems are designed to provide early warning against fire, they do not quarantee warning or protection against fire. A fire alarm system may not provide timely or adequate warning, or simply may not function, for a variety of reasons:

Smoke detectors may not sense fire where smoke cannot reach the detectors such as in chimneys, in or behind walls, on roofs, or on the other side of closed doors. Smoke detectors also may not sense a fire on another level or floor of a building. A second-floor detector, for example, may not sense a first-floor or basement fire.

Particles of combustion or "smoke" from a developing fire may not reach the sensing chambers of smoke detectors because:

- Barriers such as closed or partially closed doors, walls, chimneys, even wet or humid areas may inhibit particle or smoke flow.
- Smoke particles may become "cold," stratify, and not reach the ceiling or upper walls where detectors are located.
- Smoke particles may be blown away from detectors by air outlets, such as air conditioning vents.
- Smoke particles may be drawn into air returns before reaching the detector.

The amount of "smoke" present may be insufficient to alarm smoke detectors. Smoke detectors are designed to alarm at various levels of smoke density. If such density levels are not created by a developing fire at the location of detectors, the detectors will not go into alarm.

Smoke detectors, even when working properly, have sensing limitations. Detectors that have photoelectronic sensing chambers tend to detect smoldering fires better than flaming fires, which have little visible smoke. Detectors that have ionizing-type sensing chambers tend to detect fast-flaming fires better than smoldering fires. Because fires develop in different ways and are often unpredictable in their growth, neither type of detector is necessarily best and a given type of detector may not provide adequate warning of a fire.

Smoke detectors cannot be expected to provide adequate warning of fires caused by arson, children playing with matches (especially in bedrooms), smoking in bed, and violent explo-

sions (caused by escaping gas, improper storage of flammable materials, etc.).

Heat detectors do not sense particles of combustion and alarm only when heat on their sensors increases at a predetermined rate or reaches a predetermined level. Rate-of-rise heat detectors may be subject to reduced sensitivity over time. For this reason, the rate-of-rise feature of each detector should be tested at least once per year by a qualified fire protection specialist. Heat detectors are designed to protect property, not life.

IMPORTANT! Smoke detectors must be installed in the same room as the control panel and in rooms used by the system for the connection of alarm transmission wiring, communications, signaling, and/or power. If detectors are not so located, a developing fire may damage the alarm system, compromising its ability to report a fire.

Audible warning devices such as bells, horns, strobes, speakers and displays may not alert people if these devices are located on the other side of closed or partly open doors or are located on another floor of a building. Any warning device may fail to alert people with a disability or those who have recently consumed drugs, alcohol, or medication. Please note that:

- An emergency communication system may take priority over a fire alarm system in the event of a life safety emergency.
- Voice messaging systems must be designed to meet intelligibility requirements as defined by NFPA, local codes, and Authorities Having Jurisdiction (AHJ).
- Language and instructional requirements must be clearly disseminated on any local displays.
- Strobes can, under certain circumstances, cause seizures in people with conditions such as epilepsy.
- Studies have shown that certain people, even when they
 hear a fire alarm signal, do not respond to or comprehend
 the meaning of the signal. Audible devices, such as horns
 and bells, can have different tonal patterns and frequencies.
 It is the property owner's responsibility to conduct fire drills
 and other training exercises to make people aware of fire
 alarm signals and instruct them on the proper reaction to
 alarm signals.
- In rare instances, the sounding of a warning device can cause temporary or permanent hearing loss.

A life safety system will not operate without any electrical power. If AC power fails, the system will operate from standby batteries only for a specified time and only if the batteries have been properly maintained and replaced regularly.

Equipment used in the system may not be technically compatible with the control panel. It is essential to use only equipment listed for service with your control panel.

Telephone lines needed to transmit alarm signals from a premises to a central monitoring station may be out of service or temporarily disabled. For added protection against telephone line failure, backup radio transmission systems are recommended.

The most common cause of life safety system malfunction is inadequate maintenance. To keep the entire life safety system in excellent working order, ongoing maintenance is required per the manufacturer's recommendations, and UL and NFPA standards. At a minimum, the requirements of NFPA 72 shall be followed. Environments with large amounts of dust, dirt, or high air velocity require more frequent maintenance. A maintenance agreement should be arranged through the local manufacturer's representative. Maintenance should be scheduled monthly or as required by National and/or local fire codes and should be performed by authorized professional life safety system installers only. Adequate written records of all inspections

Installation Precautions

Adherence to the following will aid in problem-free installation with long-term reliability:

WARNING - Several different sources of power can be connected to the fire alarm control panel. Disconnect all sources of power before servicing. Control unit and associated equipment may be damaged by removing and/or inserting cards, modules, or interconnecting cables while the unit is energized. Do not attempt to install, service, or operate this unit until manuals are read and understood.

CAUTION - System Re-acceptance Test after Software Changes: To ensure proper system operation, this product must be tested in accordance with NFPA 72 after any programming operation or change in site-specific software. Reacceptance testing is required after any change, addition or deletion of system components, or after any modification, repair or adjustment to system hardware or wiring. All components, circuits, system operations, or software functions known to be affected by a change must be 100% tested. In addition, to ensure that other operations are not inadvertently affected, at least 10% of initiating devices that are not directly affected by the change, up to a maximum of 50 devices, must also be tested and proper system operation verified.

This system meets NFPA requirements for operation at 0-49° C/32-120° F and at a relative humidity. However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15-27° C/60-80° F.

Verify that wire sizes are adequate for all initiating and indicating device loops. Most devices cannot tolerate more than a 10% I.R. drop from the specified device voltage.

Like all solid state electronic devices, this system may operate erratically or can be damaged when subjected to lightning induced transients. Although no system is completely immune from lightning transients and interference, proper grounding will reduce susceptibility. Overhead or outside aerial wiring is not recommended, due to an increased susceptibility to nearby lightning strikes. Consult with the Technical Services Department if any problems are anticipated or encountered.

Disconnect AC power and batteries prior to removing or inserting circuit boards. Failure to do so can damage circuits.

Remove all electronic assemblies prior to any drilling, filing, reaming, or punching of the enclosure. When possible, make all cable entries from the sides or rear. Before making modifications, verify that they will not interfere with battery, transformer, or printed circuit board location.

Do not tighten screw terminals more than 9 in-lbs. Overtightening may damage threads, resulting in reduced terminal contact pressure and difficulty with screw terminal removal.

This system contains static-sensitive components.

Always ground yourself with a proper wrist strap before handling any circuits so that static charges are removed from the body. Use static suppressive packaging to protect electronic assemblies removed from the unit.

Follow the instructions in the installation, operating, and programming manuals. These instructions must be followed to avoid damage to the control panel and associated equipment. FACP operation and reliability depend upon proper installation.

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Documentation Feedback

Your feedback helps us keep our documentation up-to-date and accurate. If you have a question or encounter a problem not covered in this manual, contact Honeywell Silent Knight Technical Support at 800-446-6444.

Please give the following information:

- Product name and version number (if applicable)
- Printed manual
- Topic Title
- Page number (for printed manual)
- Brief description of content you think should be improved or corrected
- Your suggestion for how to correct/improve documentation

To order parts, contact Honeywell Silent Knight Sales at 800-328-0103.

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Honeywell Fire Product Warranty and Return Policy Manufacturer Warranties and Limitation of Liability Model 6808 Basic Operating Instructions LS10146-001SK-E Introduction

Section 1 Introduction

The 6808 Intelligent Fire Alarm Control Panel (FACP) is an addressable fire control system that meets the requirements of UL 864.

1.1 Overview of Basic System

The 6808 base system is an addressable system with a built-in annunciator that can also be used to program the system.

1.1.1 Hardware Features

- The 6808 has one signaling line circuit (SLC) that supports 99 SK detectors and 99 SK modules or 127 SD protocol devices.
- 6.0A of output power is available through 4 sets of terminals for notification. Each circuit is power limited per UL 864 and can source up to 3.0A. The constant auxiliary power load must not exceed 3.0A max for normal standby.
- Built-in dual phone line, digital alarm communicator/transmitter (DACT), IP or optional cellular technologies.
- Reports events to central station by point or by zone.
- UL Listed for pre-action and deluge releasing systems.
- Two general purpose Form C programmable relays.
- One Form C Trouble Relay.
- Basic system operation can be performed using a key or a user code.
- Can be used with up to 12 Model 6860, 5860, or 6855 Remote Annunciators (sold separately).
- Can be used with Model 5865-3, 5865-4, and 5880 in any combination for a total of eight devices on one control panel. See Sections 4.9 and 4.10 for additional information on these models.
- Printing of event log available through the Model 5824 serial/parallel printer interface module.
- 250 software zones, 250 output groups.
- Add notification/auxiliary power circuits with each 5496 NAC Expander or 5895XL Power supply.

Note: The system can support a maximum of eight Intelligent Power modules, either the 5895XL or 5496, in any combination.

1.1.2 Common Communication / Annunciation Link System Hardware Features

The common communications and annunciation link allows up to 17 of the 6700, 6808, 6820, and 6820EVS panels to be connected via copper or fiber optic cable so that a designated panel is the communicator for all panels in the link. This is not a true peer-to-peer network and will not perform like one.

- The default Common communications link setup can contain up to 17- 6808 panels connected.
- Common communications link support for up to 17 Sites.
- Each building is referred to as a "site".
- Panels can be interconnected using CLASS B or CLASS A topology.

- Use the SK-NIC Network Interface Card as a Common communications link. Copper wire or fiber optic cable panel connectivity can be used within the same linked system.
- The common communication and annunciation architecture allows a designated panel to be the communicator for all the panels in the link.

1.1.3 Software Features

- Advanced smoke detector features:
 - -Automatic drift compensation
 - -Maintenance alert region
 - -Point status meets calibrated smoke test requirements for NFPA 72
- "JumpStart®" feature for easy programming
- Non-volatile event history stores 1000 events
- A choice of output patterns available for notification outputs, including Temp 4 along with ANSI 3.41 temporal signal
- Built-in synchronization appliance support for AMSECO, Gentex[®], System Sensor[®], and Wheelock[®].

1.2 About this Manual

This manual is intended to be a complete reference for all installation and operation tasks for the 6808. Please let us know if the manual does not meet your needs in any way. We value your feedback!

1.2.1 Terms Used in this Manual

The following terminology is used with the 6808 system:

Table 1-1 Manual Terminology

Term	Description		
SLC	Signaling Line Circuit		
Module	The term module is used for all hardware devices except for SLC addressable devices and notification appliances. This includes the 6808 panel itself.		
Input Point	An addressable sensing device, such as a smoke or heat detector or a contact monitor device.		
Input Zone	A protected area made up of input points.		
Output Point (or Output Circuit)	A notification point or circuit for notification appliances. Relay circuits and auxiliary power circuits are also considered output points.		
Group (or "Output Group")	A group of output points. Operating characteristics are common to all output points in the group.		
Output (or "Cadence") Pattern	The pattern that the output will use, for example, Constant, March Code, ANSI 3.41. Applies to zones and special system events. See Appendix D for additional information.		
Mapping	Mapping is the process of specifying which outputs are activated when certain events occur in the system. Section 8.2 explains mapping in detail.		
Common Communication Link	Up to 17 panels can be linked. Consist of any combination of 17 panels of these model numbers:6700, 6808, 6820 / 6820EVS. For reporting purposes only. Not a peer-to-peer networked system.		
SWIFT	Smart Wireless Integrated Fire Technology		

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1.3 Compatible Products

The table below lists the products available from Honeywell Silent Knight for use with the 6808.

Type of Device	Model	Description					
SK Addressable SLC Devices	See Section 7.1 for a list of comp	patible devices.					
SD Addressable SLC Devices	See Section 7.2 for a list of compatible devices.						
SWIFT Wireless SLC Devices	See Section 7.3 for a list of comp	patible devices					
	5824 Serial/Parallel Printer Interface Module	Allows a printer to be attached for the on-site event logging. Maximum of four 5824s per control panel.					
	5496 (Rev F or higher) NAC Expander	Add 4 Notification/Auxiliary power circuits with each 5496 NAC Expander.	5496 & 5895XLs can be used in any combination,				
	5895XL (Rev F or higher) power supply	Provides additional power, six Flexput [®] circuits, and two Form C relays. See <i>Model 5895XL Installation Instructions P/N 151142</i> .	up to a total of 8 devices on one panel.				
	5860 and 5860R LCD Annunciator	4x20 LCD fire annunciator. 5860 is gray; 5860R is red.	Up to 12 5860, 6860 or				
	6860 LCD Annunciator	4x40 LCD remote fire annunciator	6855s per system.				
	6855 LCD Annunciator	4x20 LCD remote fire annunciator					
Other Modules	5860TG and 5860TR Trim Ring	Trim ring kits for surface mounting the 5860 annunciator. 5860TG is gray; 5860TR is red.					
	5865-3 and 5865-4 LED Annunciator	LED annunciator can display up to 30 LEDs (15 red and 15 yellow). 5865-4 has key switches for silence and reset, and a system trouble LED.	5865-3, 5865-4, and 5880 can be used in any combination, up to a total of				
	5880 LED I/O Module	Driver for up to 40 LEDs. Interfaces with customized annunciator boards. In addition the 5880 has eight generic switch input points.	eight devices on one panel.				
	5883 General Purpose Relay Module	Provides 10 Form C relays. Designed to be driven 5883s can be used with each 5880 module.	by the 5880. Up to four,				
	SK-NIC	Network Interface Card	Refer to LS10172-001SK-E				
	SK-FML	Fiber-Optic Multi Mode, Receiver	Refer to LS10178-001SK-E				
	SK-FSL	Fiber-Optic Single Mode, Transmitter					
	WSK-WGI	Wireless Gateway					
	WSK-PHOTO	Wireless photo with 4" base					
	WSK-PHOTO-T	Wireless Multi criteria photoelectric smoke detector with thermal (135°F) with 4" base	Refer to the SWIFT wireless Installation Manual				
Wireless	WSK-HEAT-ROR	Wireless heat, ROR/ 135° fixed with 4" base	P/N LS10036-SK-E for				
	WSK-HEAT	Wireless Heat, 135° fixed with 4" base	more information on these				
	WSK-MONITOR Module	Wireless monitor module	accessories.				
	WSK-RELAY Module	Wireless relay module					
	B210W 6" wireless base						

Type of Device	Model	Description			
	HFSS Honeywell Fire Software Suite	For communication and panel programming with a Windows-based computer. Enables remote viewing of detector status and event history.			
	7860 Telephone Cord	RJ31X cord for connecting phone line to the 6808.			
Misc.	RBB	Remote Battery Box for mounting backup batteries that are too large to fit into the main control panel cabinet. Dimensions: 16" W x 10" H x 6" D (40.64 cm W x 25.4 cm H x 15.24 cm D)			
	CELL-MOD	Cellular board with Plastic Enclosure Refer to the Installati			
	CELL-CAB-SK	Cellular board with Metal Enclosure. Lock & key	sheet P/N LS10182-SK-E		

Section 2 Agency Listings, Approvals, and Requirements

2.1 Federal Communications Commission (FCC)

The following information must be provided to the telephone company before the 6808 can be connected to the phone lines:

A Manufacturer: Honeywell Silent Knight

B Model Number: 6808

C FCC registration number: US: HS9AL10A2100

Ringer equivalence: 1.0A

D Type of jack: RJ31X

E Facility Interface Codes: Loop Start: 02LS2

F Service Order Code: 9.0F

This equipment complies with Part 68 of the FCC rules and the requirements adopted by ACTA. On the inside cover of this equipment is a label that contains, among other information, a product identifier. If requested, this information must be provided to the telephone company.

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord (not provided) and modular jack must be utilized with this product. It is designed to be used with a modular jack that is also compliant.

The REN (ringer equivalence number) provided on this installation sheet is used to determine the number of devices that may be connected to the public switched telephone network. This number must not exceed 5.0. Since this product has an REN of 1.0A, the number of devices is limited. The REN number is embedded in the FCC registration number as 10A.

If the 6808 causes harm to the telephone network, the telephone company will notify you in advance that the temporarily discontinuance of service may be required. But if advance notice is not practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

If trouble is experienced with the 6808, for repair or warranty information, please contact Honeywell Silent Knight technical support at 800-446-6444 or www.silentknight.com. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the 6808 until the problem has been resolved.

This product cannot be adjusted or repaired in the field. It must be returned to the factory for service.

This equipment is not designed for use with party line service. Connection to party line service is subject to state tariffs. You may contact the state public utility commission, public service commission or corporation commission for information.

Since the 6808 is a commercial fire alarm panel, it must be connected upstream of all other equipment utilizing

the phone lines. If you have questions about the installation, contact your telephone company or a qualified installer.

Warning

This device has been verified to comply with FCC Rules Part 15. Operation is subject to the following conditions: (1) This device may not cause radio interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Caution - To ensure proper operation, this equipment must be installed according to the enclosed installation instructions. To verify that the equipment is operating properly and can successfully report an alarm, this equipment must be tested immediately after installation, and periodically thereafter, according to the enclosed test instructions.

Caution - In order for "alarm dialing equipment" to be able to seize the phone line to report an alarm or other event when other customer equipment (telephone, answering system, computer modem, etc.) connected to the same line is in use, "alarm dialing equipment" must be connected to a properly installed RJ31X jack. The RJ31X jack must be connected in series with, and ahead of, all other equipment attached to the same phone line. Series installation of an RJ31X jack is depicted in the figure below. If you have any questions concerning these instructions, you should consult your telephone company or a qualified installer about installing the necessary jack and alarm dialing equipment for you.

2.2 Underwriters Laboratories (UL)

2.2.1 Requirements for All Installations

General requirements are described in this section. When installing an individual device, refer to the specific section of the manual for additional requirements. The following subsections list specific requirements for each type of installation (for example, Central Station Fire Alarm systems, Local Protected Fire Alarm systems, and so on). See Section 10.6 for information on releasing operation.

- 1. All field wiring must be installed in accordance with NFPA 70 National Electric Code.
- 2. Use the addressable smoke detectors specified in Section 7 of this manual and or conventional detectors listed in the compatibility chart. (See Appendix A.)
- 3. Use UL listed notification appliances compatible with the 6808 from those specified in the Appendix A at the back of this manual.
- 4. A full system checkout must be performed any time the panel is programmed.

Restricted Options:

- The loss of AC signal is defaulted to 3 hours however the system allows settings from 0 3 hours. For UL certified installations this number must be set from 1 to 3 hours.
- The system allows the use of non-latching spot type smoke detectors. This feature may not be used in commercial applications whereby a general alarm is sounded. It is intended for elevator recall, door holding applications, and hotel/motel room applications.
- The system allows the Alarm Verification time to be set from 60 to 250 seconds. For UL certified installations the setting must be a minimum of 60 seconds.
- The system allows the Auto-resound time to be set to 24 or 4 hours. For UL certified installations that are utilizing SWIFT devices, the value must be set to 4 hours
- Call forwarding shall not be used.
- When two count is used detector spacing shall be cut in half, you shall not use the alarm verification feature, and no delay shall be used.

• P.A.S feature shall be used only with automatic detectors.

2.2.2 Requirements for Central Station Fire Alarm Systems

- 1. Use both phone lines. Enable phone line monitors for both lines.
- 2. You must program a phone number and a test time so that the 6808 shall automatically initiate and complete a test signal transmission sequence to its associated receiver at least once every 6 hrs.
- 3. The AC Loss Hours option must be set from 1-3 hours.
- 4. If using wired Ethernet or cellular, you must program the corresponding account/subscriber ID and a test time so that the FACP shall automatically initiate a test signal transmission sequence to its associated receiver at least every 6 hrs.

2.2.3 Requirements for Local Protected Fire Alarm Systems

At least one UL listed supervised notification appliance must be used. Minimum system requirements are one Silent Knight addressable initiating device.

2.2.4 Requirements for Remote Station Protected Fire Alarm Systems

Minimum system requirements are one Honeywell Silent Knight addressable initiating device and either a 5220, Keltron 3158 or the built-in Digital Alarm Communicator Transmitter (DACT).

- 1. Do not exceed the current load restrictions shown in Section 3.7.2.
- 2. The AC Loss Hours option must be set from 1-3 hours.

2.2.5 Requirements for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment, NFPA 720

When using carbon monoxide detection the system must be monitored by a Supervising Station.

2.2.6 NFPA Requirements

The following is the minimum configuration to meet the NFPA requirements.

Model/Module	Description	Local	Releasing	Remote Station	Auxiliary	Central Station	Emergency Signaling
006808CB	Enclosure	Y	Y	Y	Y	Y	Y
068080	Motherboard	Y	Y	Y	Y	Y	Y
RA-100BD	4 x20 display	Y	Y	Y	Y	Y	Y
SK-NIC	Network card	0	0	0	0	0	0
SK-FML/ -FSL	Fiber module	0	0	0	0	0	0
7644	Pol Rev device	N	N	Y	N	N	N
5220	City tie, Pol. Rev Device	N	N	Y	Y	N	N
Keltron 3158	Rev Pol Module	N	N	Y	Y	N	N

Table 2-1 NFPA Requirements for 6808

Table 2-1 NFPA Requirements for 6808

Model/Module	Description	Local	Releasing	Remote Station	Auxiliary	Central Station	Emergency Signaling
Cell-Mod/Cell-Cab- SK	Cellular transmitter	N	N	Y	N	Y	N
Y = YES, N = N	O, O = OPTIONAL						

Section 3 Before You Begin Installing

This section of the manual is intended to help you plan your tasks to facilitate a smooth installation. Please read this section thoroughly, especially if you are installing a 6808 panel for the first time.

3.1 Inventory

When the 6808 shipment is received, check that all the parts have been included in the shipment. The shipment consist of one of each of the following:

- main circuit board with display
- backbox with door
- plastic bag containing two keys, screws, cables, and ten 4.7K ohm end-of-line resistors
- manual

3.2 Environmental Specifications

It is important to protect the 6808 control panel from water. To prevent water damage, the following conditions should be FOLLOWED when installing the units:

- Mount indoors in dry locations only
- Do not mount directly on exterior walls, especially masonry walls (condensation)
- Do not mount directly on exterior walls below grade (condensation)
- Protect from plumbing leaks
- Protect from splash caused by sprinkler system inspection ports
- Do not mount in areas with humidity-generating equipment (such as dryers, production machinery)

When selecting a location to mount the 6808 control panel, the unit should be mounted where it will NOT be exposed to temperatures outside the range of 0°C-49°C (32°F-120°F) or humidity not exceeding 93% noncondensing.

3.3 Software Downloads

In order to supply the latest features and functionality in fire alarm and life safety technology to our customers, we make frequent upgrades to the embedded software in our products. To ensure that you are installing and programming the latest features, we strongly recommend that you download the most current version of software for each product prior to commissioning any system. Contact Technical Support with any questions about software and the appropriate version for a specific application. HFSS Honeywell Fire Software Suite is available at www.silentknight.com.

3.4 Electrical Specifications

Table 3-1 list the terminal block on the 6808 as well as a description of the each individual terminal and their respective electrical rating.

Table 3-1: Terminal Descriptions and Electrical Specifications

Terminal No.	La	bel	Description	Rating	
ierminai No.	Group	Individual	- Description	Voltage	Current
	TELCO 1	RING	Phone Line 1 Telco Ring		
	TELCO 1	TIP	Phone Line 1 Telco Tip		
	PHONE 1	RING	Phone Line 1 Phone Ring		
Terminal Block 1	PHONE	TIP	Phone Line 1 Phone Tip		
Terrilliai block i	TELCO 2	RING	Phone Line 2 Telco Ring		
	TELCO 2	TIP	Phone Line 2 Telco Tip		
	PHONE 2	RING	Phone Line 2 Phone Ring		
	FIIONE 2	TIP	Phone Line 2 Phone Tip		
	SLC IN	+	Used for Class A installations	32 VDC	150 mA
Terminal Block 2	SLC OUT	+	SLC terminals	32 VDC	150 mA
	SLC PROG	+	Used for programming SLC Detectors	32 VDC	150 mA
Tampinal District	CDLIC C.	B A	SBUS Communication	5 VDC	100 mA
Terminal Block 3	SBUS Out	+	SBUS Power	24 VDC	1.0 A
T : 151 1.4	DATTED\/	+	To Positive battery terminal	041/00	Up to 35 Ah (see Section
Terminal Block 4 BATT	BATTERY	_	To Negative battery terminal	24 VDC	4.3 for details)
			120 VAC, 60 Hz	3.3 A	
Terminal Block 5	AC INPUT	Earth	Earth Ground	N/A	N/A
		W	AC input (neutral)	120 VAC, 60 Hz	3.3 A
		NC	Normally closed relay contact	t	
	TROUBLE	COM	Common terminal	24 VDC	2.5 A, resistive
		NO	Normally open relay contact		
		NC	Normally closed relay contact		
	RELAY 1	COM	Common terminal	24 VDC	2.5 A, resistive
		NO	Normally open relay contact		
		NC	Normally closed relay contact		
	RELAY 2	COM	Common terminal	24 VDC	2.5 A, resistive
Terminal Block 6		NO	Normally open relay contact]	
	NAC1*	_	Notification Appliance Circuit/	24 VDC	3.0 Amp NAC or Aux
	NACT	+	Auxiliary power	24 VDC	power
	NAC2*	_	Notification Appliance Circuit/	24 VDC	3.0 Amp NAC or Aux
	NACZ	+	Auxiliary power	24 VDC	power
	NAC3*	_	Notification Appliance Circuit/	24 VDC	3.0 Amp NAC or Aux
	INACO	+	Auxiliary power	27 100	power
	NAC4*		Notification Appliance Circuit/	24 VDC	3.0 Amp NAC or Aux
		+	Auxiliary power		power
	EXT. Comm	В			
P8	Cellular	Α	Cellular Transmitter	input	
	Connection	S+	Condidi Hariorilliller		55 mA, 95 mA
'	3011110011011	S-			55 IIIA, 55 IIIA
P10	Data Network		Used for SK-NIC	24 VDC	21 mA

^{*} Regulated/special application when used for releasing.

3.5 Wiring Specifications

Induced noise (transfer of electrical energy from one wire to another) can interfere with telephone communication or cause false alarms. To avoid induced noise, follow these guidelines:

• Isolate input wiring from high current output and power wiring. Do not pull one multi-conductor cable for the entire panel. Instead, separate the wiring as follows:

High voltage	AC power terminal
SLC loops	SLC In/Out Terminals
POTS reporting input/output	Phone line circuits, Ring Tip Telco, Phone Terminals
Notification circuits	NAC 1-4
SBUS	SBUS Out Terminals, Cellular communication
Relay circuits	Trouble, Relay 1, Relay 2 Terminals

- Do not pull wires from different groups through the same conduit. If you must run them together, do so for as short a distance as possible or use shielded cable. Connect the shield to earth ground at the panel. You must route high and low voltages separately.
- Route the wiring around the inside perimeter of the cabinet. It should not cross the circuit board where it could induce noise into the sensitive microelectronics or pick up unwanted RF noise from the high speed circuits. See Figure 3-1 for an example.
- High frequency noise, such as that produced by the inductive reactance of a speaker or bell, can also be reduced by running the wire through ferrite shield beads or by wrapping it around a ferrite toroid.

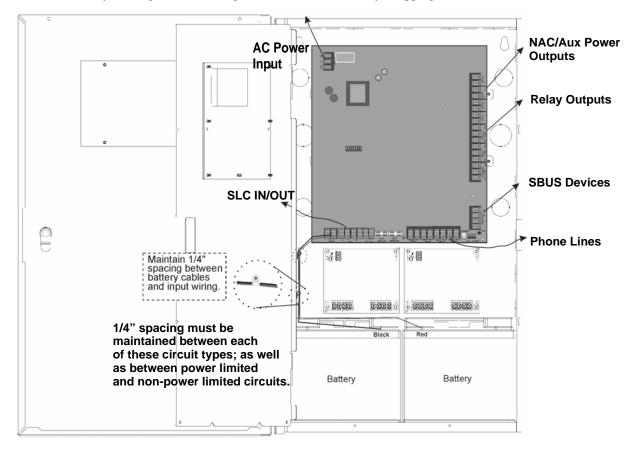


Figure 3-1 Wire Routing Example

3.6 Board Assembly Diagram

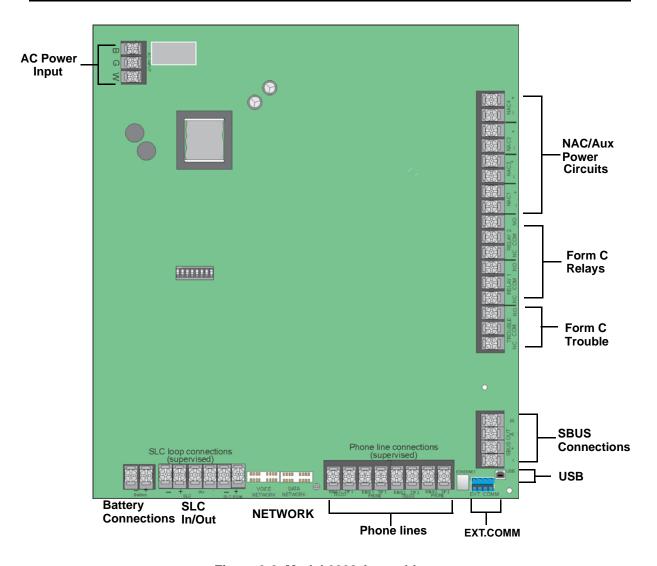


Figure 3-2 Model 6808 Assembly

Figure 3-2 shows the circuit boards and annunciator. If you should need to remove the control board for repair, do so by removing the nuts that hold the heat sink bracket to into the cabinet. Then lift the control board out of the cabinet.

3.7 Calculating Current Draw and Standby Battery

This section is for helping you determine the current draw and standby battery needs if you are using SK addressable devices (Table 3-2) or SD addressable devices (Table 3-3).

3.7.1 Current Draw Worksheet Requirements

The following steps must be taken when determining 6808 current draw and standby battery requirements.

1. Use the Current Draw Worksheet to determine current draw and standby battery requirements. Use Table 3-2 if installing SK SLC Devices and Table 3-3 if installing SD SLC Devices to determine current draw. For

the 6808, the worst case current draw is listed for the panel, addressable devices, and all SBUS expanders. Fill in the number of addressable devices that will be used in the system and compute the current draw requirements for alarm and standby. Record this information in the Current Draw Worksheet on Line A.

- 2. Add up the current draw for all auxiliary devices and record in the table at Line B.
- 3. Add up all notification appliance loads and record in the table at Line C.
- 4. For notification appliance circuits and auxiliary devices not mentioned in the manual, refer to the device manual for the current ratings.
- 5. Make sure that the total alarm current you calculated, including current for the panel itself, does not exceed 6.0 A. This is the maximum alarm current for the 6808 control panel. If the current is above 6.0 A you will need to use a notification power expander(s) such as the Silent Knight 5496 NAC Expander, to distribute the power loads so that the 6808 or the power expanders do not exceed their power rating. Refer to the current draw worksheets provided with the 5496 manual so you do not exceed their power requirements.
- Complete the remaining instructions in the appropriate Current Draw Worksheet for determining battery size requirements.

3.7.1.1 Current Draw Worksheet for SK SLC Devices

Use Table 3-2 to determine current requirements during alarm/battery standby operation SK SLC devices are installed. The 6808 FACP supports up to a total of 198 SLC devices, consisting of any combination of Sensors and Modules.⁶

Number Standby Alarm **Device** of **Current per Device** Current Current **Devices** This column For each device use this formula: Χ This column Current per number of devices. Fire Panel (Current draw from Standby: 190mA 190 mA battery) Alarm: 250mA 250 mA Addressable SLC Detectors SK-Photo mΑ mΑ SK-Photo-T mA mA SK-Heat mΑ mΑ SK-Heat-HT mΑ mΑ .30mA² Standby/Alarm: SK-Duct (includes PhotoR)1 SK-Acclimate mΑ mΑ SK-Heat-ROR mΑ mΑ SLC Standby/Alarm: 2mA SK-Beam (without integral test) Standby: 2mA mΑ Aux. Pwr Alarm: 8.5mA mΑ SLC Standby/Alarm: 2mA SK-Beam-T (with integral test)3 Standby: 2mA mΑ Aux. Pwr Alarm: 8.5 mA mΑ Standby: .30 mA mΑ SK-FIRE-CO SLC Alarm: 7.2 mA mΑ

Table 3-2: Current Draw Worksheet for SK Devices

Table 3-2: Current Draw Worksheet for SK Devices

Device	Number of Devices	Current per Device		Standby Current	Alarm Current	
Addressable SLC Devices						
SK-Monitor					mA	mA
SK-Minimon		Standby/Al	larm:	.375mA	mA	mA
SK-Pull-SA/SK-Pull-DA					mA	mA
SK-Monitor-2		Standby/Al	larm:	.75mA	mA	mA
SK-Mon-10		Standby/Al	larm:	3.5mA	mA	mA
		SLC	Standby:	.375mA	mA	
SK-Control		SLC	Alarm:	.375mA		mA
SK-Control		Aux.	Standby:	1.7mA	mA	
		Power	Alarm:	7mA		mA
		SLC	Standby:	2.25mA	mA	
SK-Control-6		SLC	Alarm:	2.25mA		mA
SK-Control-6		Aux. Pwr	Standby:	8mA	mA	
		Aux. PWI	Alarm:	20mA		mA
SK-Relay		Standby/Al	arm:	.255mA	mA	mA
SK-Relay-6		Standby/Al	larm:	1.45mA	mA	mA
CK Dalay Mary 2		Standby: 1.3mA		1.3mA	mA	
SK-RelayMon-2		Alarm:		24mA		mA
SK-Zone		A D	Standby:	12mA	mA	
		Aux Pwr	Alarm:	90mA		mA
		SLC	Standby/Alarm:	.27mA	mA	mA
		A D	Standby:	50mA	mA	
SK-Zone-6		Aux Pwr	Alarm:	270mA		mA
		SLC	Standby/Alarm:	2mA	mA	mA
SLC Accessories						
		Aux Pwr	Standby:	.5mA	mA	
B200SR Sounder Base			Alarm:	35mA		mA
		SLC	Standby	.3mA	mA	
		Aux Pwr	Standby:	.5mA	mA	
B200S Intelligent Sounder Base			Alarm: (high vol)	35mA		mA
		SLC	Standby	.3mA	mA	
B200SR-LF Low Frequency	7	Aux Pwr	Standby:	1mA	mA	
Sounder Base			Alarm:	125 mA		mA
		Aux Pwr	Standby	.55 mA	mA	
B200S-LF Low Frequency Sounder Base			Alarm (high vol)	140mA		mA
Sounder base		SLC	Standby	.30mA	mA	
B224RB Relay Base		Standby/Alarm:		.5mA	mA	mA
RTS151/151 KEY		Alarm:		7.5mA		mA
RA100Z		Alarm:		10mA		mA
SLC Isolator Devices						
SK-ISO (Isolator Module)	(100 m = ::)	Standby/Al	larm:	.45mA	mA	mA
B224BI Isolator Base	(100 max.)	Standby/Al	larm:	.5 mA		

Table 3-2: Current Draw Worksheet for SK Devices

	Device	Number of Devices	Current per Device			Standby Current	Alarm Current
	Accessories Modules						
	6860 Remote LCD Annunciator		Standby:		25mA	mA	
	6660 Remote LCD Amuniciator		Alarm:		50mA		mA
	5860 Remote LCD Annunciator	(12 max)	Standby		20mA	mA	
	3000 Kemote LCD Amuniciator	(12 IIIax)	Alarm		25mA		mA
	6855 Remote LCD Annunciator		Standby:		20mA	mA	
	0000 Remote Lob Armanelator		Alarm:		25mA		mA
	5824 Serial / Parallel I/O Module	(4 max.)	Standby/Al		45mA	mA	mA
	5496 NAC Expander	(8 max.)	Standby/Al		10mA	mA	mA
	5895XL Power Supply	(o max.)	Standby/Al	arm:	10mA	mA	mA
	5865-4 LED Annunciator Module		Standby:		35mA	mA	
	(with reset and silence switches)		Alarm:		145mA		mA
	5865-3 LED Annunciator Module	(8 max.)	Standby:		35mA	mA	
	occo o EED / timanolator infoatio	(o max.)	Alarm:		145mA		mA
	5880 LED I/O Module		Standby:		35mA	mA	
	occo EED We Micaale		Alarm:		200mA		mA
			Standby:		0mA	mA	
	5883 Relay Interface	(32 max.)	Alarm:	(22 mA p	220mA per relay)		mA
	SK-NIC Network Interface Card	(1 Max.)	Standby/Al	arm:	21mA	mA	mA
	SK-FML Fiber Optic Multi Mode	(1 Max.)	Standby/Al		53mA	mA	mA
	SK-FSL Fiber Optic Single Mode	(1 Max.)	Standby/Al	arm:	79mA	mA	mA
	Wireless Modules					<u>.</u>	
	SK-WGI Wireless Gateway			nt using external supply	40mA		
	-		Max currer	nt SLC Power	24mA		
Α	Total System Current						
	Auxiliary Devices ⁴	Refer to dev	ices manual	for current rating.			
	IPDACT-2 IP Communicator	(1 max.)	Standby:		93mA	mA	
	IF DACT-2 IF Communicator	(1 Illax.)	Alarm:		136mA		mA
	IPDACT-2UD IP Communicator	(1 max.)	Standby:		98mA	mA	
	II DAGT 200 II Gommanicator	(Tillax.)	Alarm:		155mA		mA
	CELL-MOD/CELL-CAB-SK		Standby:		55mA	mA	
	CELE-MOD/CELE-CAB-3K		Alarm:		100mA		mA
			Alarm/Star	•	mA	mA	mA
			Alarm/Star	idby:	mA	mA	mA
			Alarm/Star	idby:	mA	mA	mA
			Alarm/Star	idby:	mA	mA	mA
В	Auxiliary Devices Current	•	•				
	Notification Appliance Circuits	Refer to dev	ices manual	for current rating.			
	5495/5499 Power Supply		24 VDC	One input circuit:	15mA		mA
	0400/0400 i Owel Supply		24 100	Both input circuits:	30mA		mA
			Alarm:	•	mA		mA
			Alarm:		mA		mA
			Alarm:		mA		mA
			Alarm:		mA		mA

3-7

Table 3-2: Current Draw Worksheet for SK Devices

	Device	Number of Devices	Current per Device	Standby Current	Alarm Current
С	Notification Appliances Current		mA		
D	Total current ratings of all devices in	mA	mA		
Е	Total current ratings converted to ar	А	А		
F	Number of standby hours (24 or 60 for NFPA 72, chapter 1, 1-5.2.5):				
G	Multiply lines E and F. Total standby AH				
Н	Alarm sounding period in hours. (Fo		Н		
I	Multiply lines E and H. Total alarm AH				AH
J	Add lines G and I. ⁵				
	Multiply by the Derating Factor			x 1.25	
			Total ampere hours required		

- 1. The SK-Duct housing contains a vacant mount for a SK-Relay (sold separately). Current draw for the SK-Relay is calculated by increasing the SK-Relay row of the calculation sheet by one for each SK-Relay used with a SK-Duct.
- 2. The FACP can only support 5 devices w/LED's on. This current draw has been added to the panels alarm current.
- 3. SK-Beam-T draws a maximum of 500 mA from Auxiliary power only when the test feature is used. This should be considered when determining auxiliary power capacity but not calculated into current requirements for day to day operation.
- 4. If using door holders, you do not need to consider door holder current for alarm/battery standby, because power is removed during that time. However, during normal operation, door holders draw current and must be included in the 6.0A total current that can be drawn from the panel.
- 5. Use next size battery with capacity greater than required.
- 6. Total does not include isolator devices or accessory bases.

3.7.1.2 Current Draw Worksheet for SD SLC Devices

Use Table 3-3 to determine current requirements during alarm/battery standby operation when SD SLC devices are installed. You can install up to 127 SD devices per panel.⁵

Table 3-3: Current Draw worksheet for SD Devices

Device	Number of Devices	C	urrent per Devi	се	Standby Current	Alarm Current
For each device use this formula:	This column	X This co	olumn =	Current pe	er number of de	vices.
Fire Panel (Current draw from	1	Standby:		190 mA	190 mA	
battery)		Alarm:		250 mA		250 mA
Addressable SLC Devices					•	
SD500-AIM					mA	mA
SD500-MIM	7				mA	mA
SD500-ARM	1	01	Q. 11 (A)		mA	mA
SD500-PS	1	Standby/Al	arm:	.55 mA ¹		
SD505-HEAT	1				mA	mA
SD505-PHOTO	1				mA	mA
SD500-ANM		Aux. Pwr	Standby:	8 mA	mA	
			Alarm:	60 mA		mA
		SLC	Standby/Alarm:	55 mA	mA	mA
SD500-SDM		SLC	Standby/Alarm:	.55 mA	mA	mA
		Aux. Pwr	Standby:	20 mA	mA	
			Alarm:	106 mA		mA

Table 3-3: Current Draw worksheet for SD Devices

Device	Number of Devices	С	Current per Device		rent	Alarm Current
SLC Accessory Bases		<u> </u>		l .		
SD505-6RB		Standby/A	larm: .082	2 mA	mA	mA
SD505-6SB		Aux. Pwr	Standby:	I mA	mA	
			Alarm: 32	2 mA		mA
		SLC	Standby/Alarm: .082	2 mA	mA	mA
SD505-DUCTR		Aux. Pwr	Standby: 20	mA ²	mA	
			Alarm: 62	mA ²		mA
		SLC		5 mA	mA	mA
SD505-DTS-K			uded with SD505-DUCTF	R worst case.		
SD505-DUCT		SLC	Standby/Alarm: .5	5 mA	mA	mA
SLC Isolator Devices			·			
SD500-LIM	(100 max)	Standby/A	larm: .092	2 mA	mA	mA
SD505-6IB	(50 max.)					
Accessories Modules						
0000 D 1 1 0 D 1		Standby:	20) mA	mA	
6860 Remote LCD Annunciator		Alarm:	25	5 mA		mA
ESCO Domoto I CD Annunciator	(12 may)	Standby	2	0mA	mA	
5860 Remote LCD Annunciator	(12 max)	Alarm 25 mA		5 mA		mA
6855 Remote LCD Annunciator		Standby:	20) mA	mA	
6655 Remote LCD Annunciator		Alarm:	25	5 mA		mA
5824 Serial/Parallel Printer Interface	(4 max.)	Standby/A	larm: 45	5 mA	mA	mA
5865-4 LED Annunciator		Standby:	35	5 mA	mA	
(with reset and silence switches)		Alarm:	145	5 mA		mA
5865-3 LED Annunciator	(8 max.)	Standby:	35	5 mA	mA	
occo o EED / illinariolator	(o max.)	Alarm:	145	5 mA		mA
5880 LED I/O Module		Standby:		5 mA	mA	
		Alarm:	200) mA		mA
	(22	Standby:) mA	mA	
5883 Relay Interface	(32 max.)	Alarm:	-	mA		mA
5496 NAC Expander		Standby/A	(22 mA per re) mA	mA	mA
5895XL Power Supply	(8 max.)	Standby/A) mA	mA	mA
Network Cards		Staridby/A	lailli.		шА	ША
SK-NIC Network Interface Card	(1 Max.)	Standby/A	larm: 21	I mA	mA	mA
SK-FML Fiber Optic Multi Mode	(1 Max.)	Standby/A		3 mA	mA	mA
SK-FSL Fiber Optic Single Mode	(1 Max.)	Standby/A		9 mA	mA	mA
Total System Current	(1110211)	otal labyii i		7.1.2.		
Auxiliary Devices ³	Refer to device	es manual fo	r current rating.			
Advillary Devices	Troidi to dovido	Alarm:		S mA		mA
IPDACT-2 IP Communicator		Standby:		3 mA	mA	ША
		Alarm:		5 mA	, \	mA
IPDACT-2UD IP Communicator		Standby:		3 mA	mA	, (
	1	Standby:		5 mA	mA	
CELL-MOD/CELL-CAB-SK		Alarm:) mA		mA
		Alarm/Star		mA	mA	mA

Α

Table 3-3: Current Draw worksheet for SD Devices

	Device	Number of Devices	Current per Device		Standby Current	Alarm Current
			Alarm/Stai	ndby: mA	mA	mA
			Alarm/Star	ndby: mA	mA	mA
В	Auxiliary Devices Current	- 1				
	Notification Appliance Circuits	Refer to device	s manual fo	r current rating.		
	5495/5499 Power Supply		24 VDC	One input circuit: 15 mA		mA
	13493/3499 Fower Supply		24 VDC	Both input circuits: 30 mA		mA
			Alarm:	mA		mA
			Alarm:	mA		mA
			Alarm:	mA		mA
			Alarm:	mA		mA
С	Notification Appliances Current	cation Appliances Current				
D	Total current ratings of all devices	in system (line A +	line B + C)		mA	mA
E	Total current ratings converted to a	amperes (line D x .	001):		А	Α
F	Number of standby hours (24 or 6	0 for NFPA 72, cha	pter 1, 1-5.2	2.5):	Н	
G	Multiply lines E and F.			Total standby AH	AH	
Н	Alarm sounding period in hours. (F	or example, 5 min	utes =.0833	hours)		Н
I	Multiply lines E and H. Total alarm AH					AH
J	Add lines G and I. ⁴					
	Multiply by the Derating Factor				x 1.25	
				Total ampere hours required		

- $1. \ \ The \ FACP \ can \ only \ support \ 5 \ devices \ w/LED's \ on. \ This \ current \ draw \ has \ been \ added \ to \ the \ panels \ alarm \ current.$
- 2. If using 24 VDC aux power only. No standby or alarm current for battery calculation if using 24 VAC, 120 VAC or 240 VAC.
- 3. If using door holders, you do not need to consider door holder current for alarm/battery standby, because power is removed during that time. However, during normal operation, door holders draw current and must be included in the 6.0A total current that can be drawn from the panel.
- 4. Use next size battery with capacity greater than required.
- 5. Total does not include isolator devices or accessory bases.

3.7.2 Maximum Battery Standby Load

Table 3-4 and Table 3-5 show the standby load calculations for the based on 24 and 90 hours of standby. The standby load calculations of line D in the Current Draw Calculation Worksheet must be less than the number shown in Table 3-4 and Table 3-5 for the selected battery size, standby hour and alarm time. The numbers below have a built in 20% derating factor for the battery amp-hour capacity.

Table 3-4: Maximum Battery Standby Loads for 24 Hour Standby

Rechargeable Battery Size	24 hr Standby, 5 mins. Alarm	24 hr Standby, 15 min alarm	24 hr Standby, 20 min alarm
17AH	535 mA	473 mA	442 mA
18AH	569 mA	506 mA	475 mA
24AH	769 mA	706 mA	675 mA
33AH	1.07A	1.01A	975 mA
35AH	1.14A	1.07A	1.04A
40AH	1.30A	1.24A	1.21A
55AH	1.80A	1.74A	1.71A

Table 3-5: Maximum Battery Standby Loads for 90 Hour Standby*

Rechargeable Battery Size	90 hr Standby, 5 min alarm	90 hr Standby, 15 min alarm	90 hr Standby, 20 min alarm
33 AH	N/A	N/A	N/A
40 AH	347 mA	331 mA	322 mA
55 AH	480 mA	464 mA	456 mA

Warning

does not support the use of batteries smaller than those listed in Table 3-4 and Table 3-5. If you use a battery too small for the installation, the system could overload the battery resulting in the installation having less than the required 24 hours standby power. Use Table 3-4 and Table 3-5 to calculate the correct battery amp hour rating needed for your installation. It is recommended that you replace batteries every five years.

^{*}For FM Installation only

Section 4 Control Panel Installation

Caution!

To avoid the risk of electrical shock and damage to the unit, power should be OFF at the control panel while installing or servicing.

4.1 Mounting the Control Panel Cabinet

Read the environmental specifications in Section 3.2 before mounting the 6808 panel.

The 6808 cabinet overall dimensions are: 16.363" W x 26.37" H x 3.9"1 D.

The 6808 panel should be located within a secured area, where it is accessible to main drop wiring runs and where it can be easily tested and serviced. End-users responsible for maintaining the panel should be able to hear alarms and troubles. When selecting a location, keep in mind that the panel itself is the main source of alarm and trouble annunciation.

When mounting on interior walls, use appropriate screw anchors in plaster. When mounting on concrete, especially when moisture is expected, attach a piece of 3/4 inch plywood to the concrete surface and then attach the 6808 to the plywood. Also mount any other desired components to the plywood.

DO NOT flush-mount the 6808 cabinet in a wall designated as a fire break.



Figure 4-1 6808 Cabinet

4.1.1 Preventing Water Damage

Water damage to the fire system can be caused by moisture entering the cabinet through the conduits. Conduits that are installed to enter the top of the cabinet are most likely to cause water problems. Installers should take reasonable precautions to prevent water from entering the cabinet. Water damage is not covered under warranty.

4.1.2 Removing the 6808 Assembly from the Housing

If it should ever be necessary to remove the control panel assembly from the cabinet for repair, do so by removing the nuts that hold the heat sink bracket to into the cabinet. Do not attempt to disassemble the circuit boards.

4.1.3 Ethernet Connection

Ethernet connection is used for IP communication. For port location see Figure 3-2.

4.2 AC Connection

At installation, connect the AC terminals to the power source as shown in Figure 4-2. It may be necessary for a professional electrician to make this connection.

Warning: RISK OF ELECTRICAL SHOCK AND EQUIPMENT DAMAGE

Several different sources of power can be connected to this panel. Disconnect all sources of power before servicing. The panel and associated equipment may be damaged by removing and/or inserting cards, modules or interconnecting cables while this unit is energized.

The AC terminals are rated at 120 VAC, 60 Hz, 3.6A.

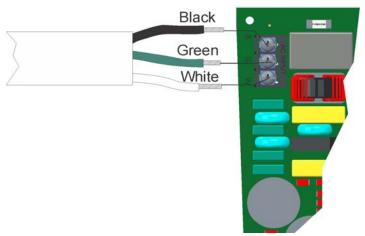


Figure 4-2 120VAC Power Connection

Control Panel Installation LS10146-001SK-E

4.3 Battery Power

The batteries must be sealed lead acid type. Before connecting the batteries to the FACP, make certain that the interconnect cable between the batteries is <u>not</u> connected. Do not connect the battery jumper cable until the system is completely installed. Observe polarity when connecting the batteries.

WARNING: RISK OF PERSONAL INJURY

Battery contains sulfuric acid which can cause severe burns to the skin and eyes and can destroy fabrics. If contact is made with sulfuric acid, immediately flush the skin or eyes with water for 15 minutes and seek immediate medical attention

The control panel battery charge capacity is 7.0 to 35 AH. The main control cabinet can house batteries up to 18 AH, larger capacity batteries can be housed in a RBB (see Section 4.3.1 for details). Use 12V batteries of the same AH rating. Determine the correct AH rating as per your current load calculation (see Section 3.7).

Wire batteries in series to produce a 24-volt equivalent. Do not parallel batteries to increase the AH rating. It is recommended that you replace batteries every five years.

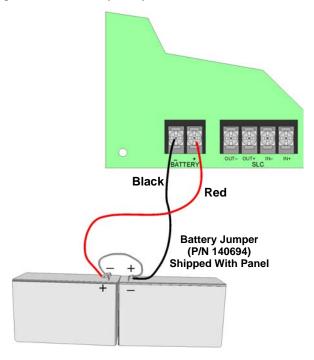


Figure 4-3 Battery Connection

4.3.1 Battery Accessory Cabinet

The Model RBB Accessory cabinet can be used when your backup batteries requirements use backup batteries that are too large to fit into the main control panel cabinet. The RBB cabinet holds batteries up to the 35 AH size. The RBB dimensions are 16" W x 10" H x 6" D (40.64 cm W x 25.4 cm H x 15.24 cm D).

4.3.1.1 Installing the RBB Accessory Cabinet and Batteries

To properly install the accessory cabinet and backup batteries, follow these steps:

- 1. Mount the accessory cabinet. See figure Figure 4-4 for the four cabinet mounting holes.
 - If mounting onto drywall the accessory cabinet must be mounted onto 3/4-inch plywood. This is necessary because the weight of the batteries inside the accessory cabinet could cause the cabinet to pull away from the drywall.
 - When mounting on concrete, especially when moisture is expected, attach a piece of 3/4"" plywood to the concrete surface and then attach the RBB cabinet to the plywood.
 - If using the battery cable extenders provided (P/N 140643), mount the RBB cabinet no more than 18" away from the main control panel cabinet. This will ensure that the battery cables reach the battery terminals.

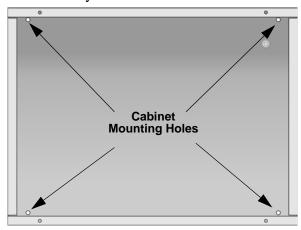


Figure 4-4 RBB Cabinet Mounting Holes

2. Connect the main control panel battery cables to the battery cable extenders as shown in Figure 4-5.

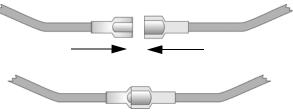


Figure 4-5 Splicing Control Panel Battery Cable to RBB Battery Cable Extenders

Control Panel Installation LS10146-001SK-E

3. Run extended battery cable from control panel cabinet through conduit to RBB cabinet. See Figure 4-6.

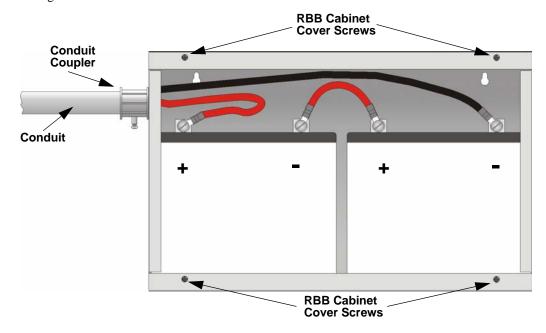


Figure 4-6 Battery Connections in the RBB Cabinet

Note: Figure 4-6 is an example of how the wire connections can be routed. However, any other cabinet knockouts (on either the main control panel or the RBB cabinet), that are not previously being used may be utilized to connect conduit between the two cabinets.

- Connect battery leads to the backup battery terminals. See Figure 4-6.
 Observe the proper polarity to prevent damage to the batteries or the control panel.
- 5. Insert the RBB cover screws into the cover mounting holes (see Figure 4-6). Screw the cover screw ¾ of the way into the cover mounting hole.
- 6. Align the cover plate mounting keyhole over the cover mounting screws. See Figure 4-7.

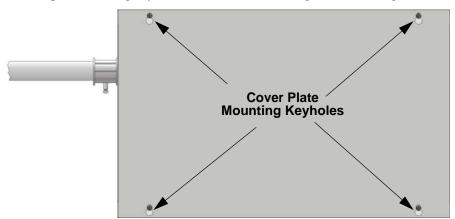


Figure 4-7 Cover Plate Mounting Keyholes and Cover Mounting Screws Alignment

7. Slide the cover into place and tighten the cover mounting screws.

4.4 SBUS Wiring

This section contains information on calculating SBUS wire distances and the types of wiring configurations (Class B).

4.4.1 Calculating Wiring distance for SBUS modules

The following instructions will guide you in determining the type of wire and the maximum wiring distance that can be used with control panel SBUS accessory modules.

To calculate the wire gauge that must be used to connect SBUS modules to the control panel, it is necessary to calculate the total worst case current draw for all modules on a single 4-conductor bus. The total worst case current draw is calculated by adding the individual worst case currents for each module. The individual worst case values are shown in the table below.

Note: Total worst case current draw on a single SBUS cannot exceed 1 amp.

Model Number Worst Case Current Draw 5860, 6855 or 6860 LCD Annunciator .100 amps 5824 Serial/Parallel Printer Interface Module .040 amps 5880 LED I/O Module .250 amps 5865 LED Fire Annunciator .200 amps 5496 NAC Expander .010 amps SK-NIC Network Interface Card .021 amps CELL-MOD/CELL-CAB-SK .145 amps SK-F485C Fiber Converter .125 amps

Table 4-1: SBUS Device Current Draw

After calculating the total worst case current draw, Table 4-2 specifies the maximum distance the modules can be located from the panel on a single wire run. The table insures 6.0 volts of line drop maximum. In general, the wire length is limited by resistance, but for heavier wire gauges, capacitance is the limiting factor.

These cases are marked in the chart with an asterisk (*). Maximum length can never be more than 6,000 feet, regardless of gauge used. (The formula used to generate this chart is shown in the note below).

Wiring Distance: SBUS Modules to Panel					
Total Worst Case Current Draw (amps)	22 Gauge	18 Gauge	16 Gauge	14 Gauge	
0.100	1852 ft.	4688 ft.	* 6000 ft.	* 6000 ft.	
0.200	926 ft.	2344 ft.	3731 ft.	5906 ft.	
0.300	617 ft.	1563 ft.	2488 ft.	3937 ft.	
0.400	463 ft.	1172 ft.	1866 ft.	2953 ft.	
0.500	370 ft.	938 ft.	1493 ft.	2362 ft.	
0.600	309 ft.	781 ft.	1244 ft.	1969 ft.	
0.700	265 ft.	670 ft.	1066 ft.	1687 ft.	
0.800	231 ft.	586 ft.	933 ft.	1476 ft.	
0.900	206 ft.	521 ft.	829 ft.	1312 ft.	
1.000 (Max)	185 ft.	469 ft.	746 ft.	1181 ft.	

Table 4-2: Wiring Distances Per Wire Gauge Using Copper Wire

4-6

Control Panel Installation LS10146-001SK-E

Note: The following formulas were used to generate the wire distance chart:

where: Rpu = Ohms per 1000 feet for various Wire Gauges (see table below)

Table 4-3: Typical Wire Resistance Per 1000 ft. Using Copper Wire

Wire Gauge	Ohms per 1000 feet (Rpu)
22	16.2
18	6.4
16	4.02
14	2.54

Wiring Distance calculation example:

Suppose a system is configured with the following SBUS modules:

- 2 Module 5860 Remote LCD Annunciator
- 1 5496 NAC Expander
- 1 5865 LED Fire Annunciator
- 1 5824 Serial/Parallel Printer Interface Module

The total worst case current is calculated as follows:

Total Worst Case Current Drav	V	= .450 amps
5824 Current Draw	= 1 x .040 amps	= .040 amps
5865 Current Draw	= 1 x .200 amps	= .200 amps
5496 Current Draw	= 1 x .010 amps	= .010 amps
5860 Current Draw	= 2 x .100 amps	= .200 amps

Note: For assistance with SBUS calculation, please refer to www.silentknight.com.

Using this value, and referring to the Wiring Distance table, it can be found that the available options are:

- 370 feet maximum using 22 Gauge wire
- 938 feet maximum using 18 Gauge wire
- 1493 feet maximum using 16 Gauge wire
- 2362 feet maximum using 14 Gauge wire

4.4.2 Wiring Configurations

Figure 4-8 illustrates Class B configurations wiring.

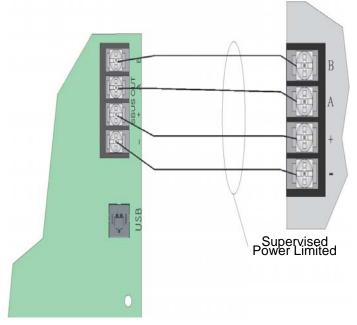


Figure 4-8 SBUS Class B Wiring

4.5 5860 Remote LCD Annunciator Installation

The optional Model 5860 Remote LCD Annunciator, shown in Figure 4-9. Up to 12 annunciators can be added to the 6808 system in any combination.



Figure 4-9 Model 5860 Remote LCD Annunciator, Front View

5860 installation involves the following steps:

- 1. Make sure power is off at the panel.
- 2. Mount the 5860 in the desired location (see Section 4.5.1).
- 3. Connect the 5860 to the panel (see Section 4.7).
- 4. Use the DIP switches on the back of the 5860 to assign an ID# to the 5860 (see Section 4.11.1).
- 5. The new 5860 module must be added to the system through programming. JumpStart[®] AutoProgramming will add the module automatically (see Section 8.1). You can also add it manually (see Section 9.2.2). Select a name, if desired (see Section 9.2.1.1).

4.5.1 Mounting the 5860

This section of the manual describes mounting the remote annunciator. The annunciator can be flush- or surface-mounted. Figure 4-10 shows the parts of the annunciator. Instructions for disassembling and mounting appear on the following pages.

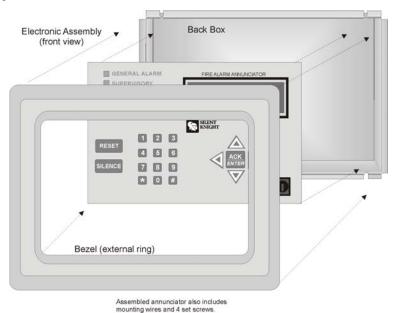


Figure 4-10 Annunciator Parts

The 5860 comes from the factory fully assembled. You must disassemble it for mounting. To disassemble the annunciator, use a 5/64 hex wrench to remove the set screws, located on the bottom of the annunciator bezel.

(See Figure 4-11 for location of the set screws).

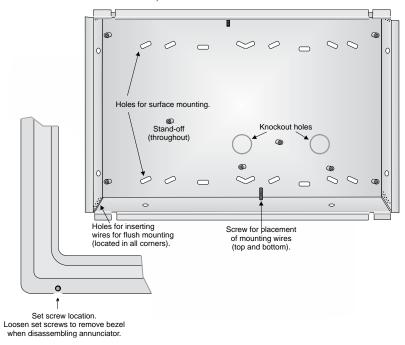


Figure 4-11 Annunciator Back Box and Bezel Details

4.5.1.1 Flush Mounting

This section of the manual describes flush mounting. You can flush-mount with or without an electrical box.

Flush Mounting with an Electrical Box

The 5860 annunciator can be used with the following types of electrical boxes: 4S, single-gang, and double-gang. If an electrical box is used, the box must be 1-3/8" back from the face of the wall to accommodate the

Examples of Electrical Box Use Electrical Box Placement wall Sheet rock studs annunciator back box (outline) Annunciator back box electrical box When flush-mounting using an electrical box, the box must be 1-3/8" from face of wall. Electrical box applications require 2 by 4 construction minimum. Electrical Box

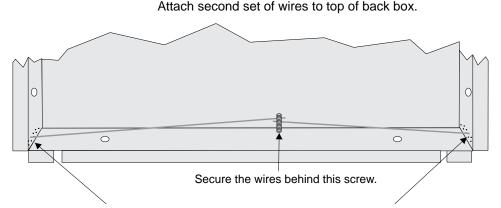
annunciator. Studs used with an electrical box must be two by fours (or larger).

Figure 4-12 Placement of Electrical Box for Flush Mounting

Sheet rock

Flush Mounting Steps

- 1. Cut a hole in the sheet rock to the following dimensions: 8-1/4" W x 6-5/8" H. If an electrical box is used, the box must be 1-3/8" back from face of wall to accommodate the annunciator (see Figure 4-12).
- 2. Remove knockout holes as needed for wires.
- 3. Fit the annunciator back box into the hole and stabilize with mounting wires. Angle the mounting wires into the first hole past the sheet rock. Secure the wires behind the screws as shown in Figure 4-13. When all four wires are in place, the back box should fit snugly into the hole in the sheet rock.
- 4. After the annunciator wiring to the panel has been completed (described in Section 4.7), replace the electronic assembly in the back box. Place the bezel over the back box and tighten the set screws on the bezel.



Insert wires at an angle into the first holes past the sheet rock.

Figure 4-13 Flush Mounting the Back Box

4.5.1.2 Surface Mounting

The 5860 can be mounted directly to a surface or can be attached to a single, double, or four-square electrical box. The Model 5860TG/TR trim ring kit is available for use when surface mounting.

- 1. Drill holes in the surface to match the screw holes on the back box.
- 2. Fit the trim ring over the back box.
- 3. Attach the back box to the surface using screws provided.
- 4. After the annunciator wiring to the panel has been completed (described in Section 4.7), replace the electronic assembly in the back box. Place the bezel over the back box and tighten the set screws on the bezel.

4.5.2 Model 5860 Connection to the Panel

Connect the 5860 to the panel as shown in Figure 4-14.

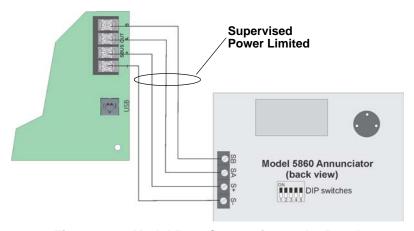


Figure 4-14 Model 5860 Connection to the Panel

4.6 6855 Remote Annunciator Installation

The optional Model 6855 Remote Annunciator, shown in Figure 4-15. The 6855 can be surface or flush mounted. Up to 12 annunciators can be added to the 6808 system in any combination.

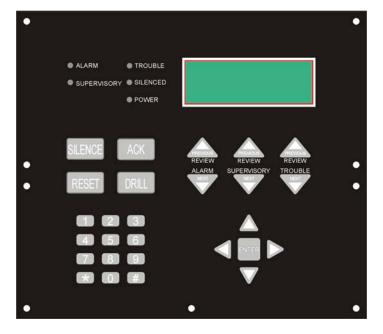


Figure 4-15 Model 6855 Remote Annunciator, Front View

6855 installation involves the following steps:

- 1. Make sure power is off at the panel.
- 2. Mount the 6855 in the desired location (see Section 4.6.1).
- 3. Connect the 6855 to the panel (see Section 4.4.2).
- 4. Use the DIP switches on the back of the 6855 to assign an ID# to the 6855 (see Section 4.11.1).
- 5. The new 6855 module must be added to the system through programming. JumpStart[®] AutoProgramming will add the module automatically (see Section 8.1). You can also add it manually (see Section 9.2.2). Select a name, if desired (see Section 9.2.1.1).

4.6.1 Mounting the 6855

This section of the manual describes mounting the remote annunciator. The annunciator can be flush- or surface-mounted.

4.6.1.1 Flush Mounting

This section of the manual describes flush mounting.

Follow these steps to flush mount the 6855

1. The back box dimensions are 9-9/32" w x 8-3/8" h. The minimum depth 2". The back box can be mounted prior to the complete installation of the 6855 using any of the mounting holes shown in Figure 4-16.

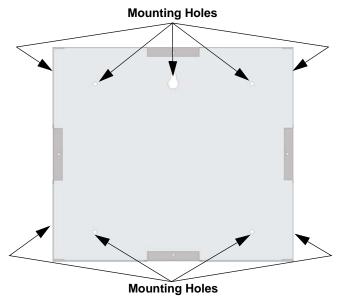


Figure 4-16 Back Box Mounting Holes

2. Remove knockout holes as needed for wires. See 4.5 for backbox knockout locations

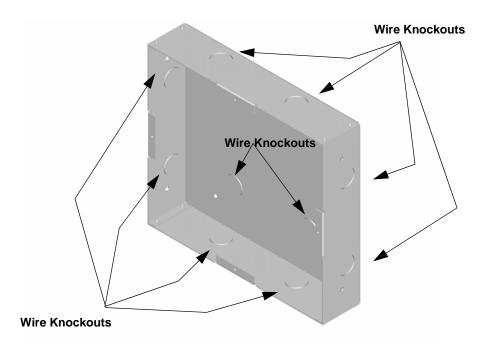


Figure 4-17 Back Box Knockout Locations

- 3. Wire the Annunciator board to the main control panel. See Figure 4-20.
- 4. Attach the annunciator and door assembly to back box as shown in Figure 4-18 using the supplied screws.

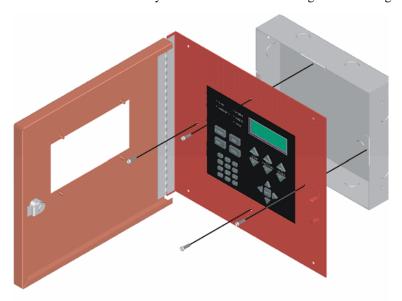


Figure 4-18 Attaching Annunciator/Door Assembly to Backbox

4.6.1.2 Surface Mounting

The optional Model RA-100TG/TR trim ring kit is available for use when surface mounting.

- 1. Remove the desired knock out. See 4.5.
- 2. To properly mount the back box, insert a single screw into the key shaped mounting hole. Do not tighten all the way. See Figure 4-19.

Place a level on top of the back box, with the back box level insert the rest of the mounting screws.

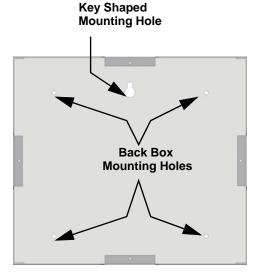


Figure 4-19 Back Box Surface Mount Holes

3. Run wires to the control panel.

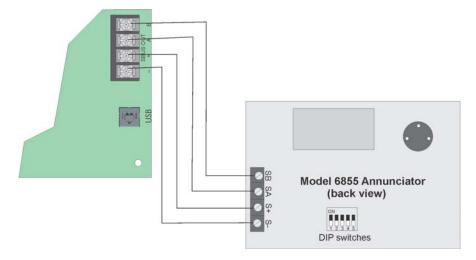


Figure 4-20 FACP Connection to 6855

4.7 6860 Remote Annunciator Installation

The optional Model 6860 Remote Annunciator, shown in Figure 4-21. The 6860 can be surface or flush mounted.

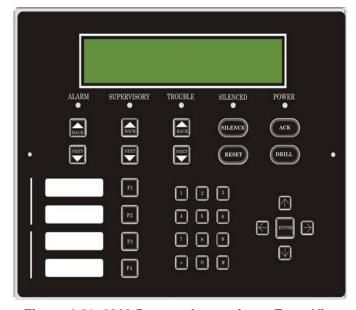


Figure 4-21 6860 Remote Annunciator, Front View

6860 installation involves the following steps:

- 1. Make sure power is off at the panel.
- 2. Mount the 6860 in the desired location (see Section 4.7.1).
- 3. Connect the 6860 to the panel (see Section 4.7.2).
- 4. Use the DIP switches on the back of the 6860 to assign an SBUS ID# to the 6860 (see Section 4.11.1).

5. The 6860 module must be added to the system through programming. JumpStart[®] AutoProgramming will add the module automatically (see Section 8.1.3).

4.7.1 Mounting the 6860

This section of the manual describes mounting the remote annunciator. The annunciator can be flush or surface mounted.

4.7.1.1 Flush Mounting

This section of the manual describes flush mounting. Follow these steps to flush mount the 6860

1. The back box dimensions are 91/4" W x 8 3/8" H. The minimum depth required is 2". The back box can be mounted prior to the complete installation of the 6860 using any of the mounting holes shown in Figure 4-22.

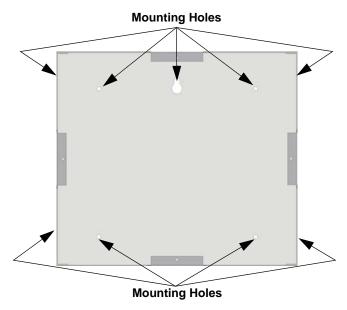


Figure 4-22 Back Box Mounting Holes

Wire Knockouts

Wire Knockouts

2. Remove knockout holes as needed for wires. See Figure 4-23 for backbox knockout locations.

Figure 4-23 Back Box Knockout Locations

- 3. Wire the annunciator board to the main control panel. As described in Section 4.5.2.
- 4. Attach the annunciator and door assembly to back box as shown in Figure 4-18 using the supplied screws.

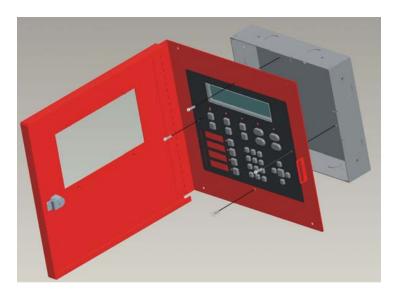


Figure 4-24 Attaching Annunciator / Door Assembly to Backbox

4.7.1.2 Surface Mounting

The Model RA-100TR/TG red trim ring kit is available for use when surface mounting the 6860.

1. Remove the desired knock out. See 4.5.

2. To properly mount the back box, insert a single screw into the key shaped mounting hole. Do not tighten all the way. See Figure 4-25.

Place a level on top of the back box, with the back box level insert the rest of the mounting screws.

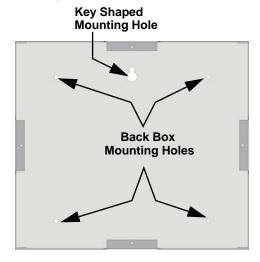


Figure 4-25 Back Box Surface Mount Holes

- 3. Run wires to the control panel.
- 4. Place the trim ring over the back box as shown in Figure 4-26.

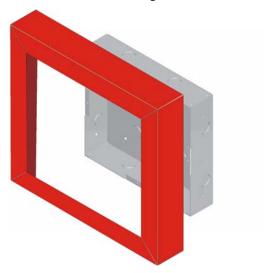


Figure 4-26 Installing Trim Ring

- 5. Attach the door assembly to the back box using screws provided.
- 6. After the SBUS wiring to the annunciator is complete (described in Section 4.7.2), replace the electronic assembly in the back box. Place the bezel over the back box and tighten the set screws on the bezel.

4.7.2 6860 Connection to the Panel

Connect the 6860 to the panel as shown in Figure 4-27.

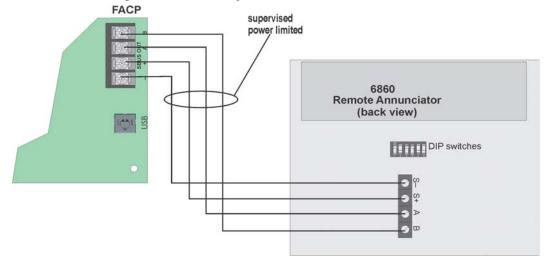


Figure 4-27 Model 6860 Connection to the Panel

4.8 5824 Serial/Parallel Interface Module Installation

The 5824 serial/parallel interface module allows you to connect a printer to the panel. Printing is available for real time events, detector status and event history. The 5824 and the printer connected to the 5824 are for ancillary use only. The printer must be a UL 864 listed printer.

To install the 5824:

- 1. Make sure power is off at the panel.
- 2. Connect the 5824 to the panel as shown in Figure 4-28.

Note: Four 5824s per panel maximum.

- 3. Use the DIP switches on the back of the 5824 board to assign an ID# to the 5824 (see Section 4.11.1).
- 4. Configure the 5824 device through programming. See Section 4.8.1.
- 5. Connect a printer to the 5824 as shown in Figure 4-28.

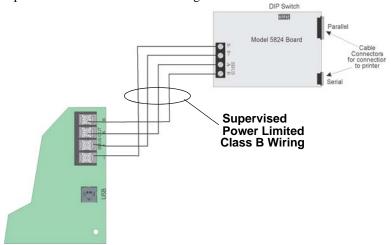


Figure 4-28 5824 Connection to the Panel

4.8.1 Selecting 5824 Options

Configuring the 5824 includes the following steps:

- Add the module to the system. JumpStart[®] will add the module automatically (see Section 8.1). You can also add it manually (see Section 9.2.2).
- Select a name, if desired (see Section 9.2.1.1).
- Select options for the printer and the output port. See below.

Printer and Output Port Options

The printer is for ancillary use only.

- 1. From the Main Menu, select 7 for Program Menu.
- 2. Select 1 for Module.
- 3. Select 1 for Edit Module.
- 4. From the list that displays, select the 5824 module you want to configure.
- 5. Press ENTER to bypass the next two screens. A screen similar to the one shown in Figure 4-29 will display.

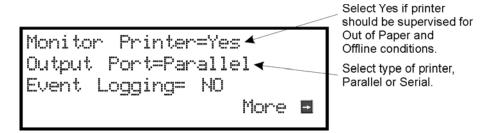


Figure 4-29 Selecting Printer and Output Port Options

- 6. Select options for the printer as needed for your installation. Most printers are parallel.
- 7. If you are using a serial printer, use the next screen to select serial port options as required for your printer. Refer to your printer manual if you need more information.

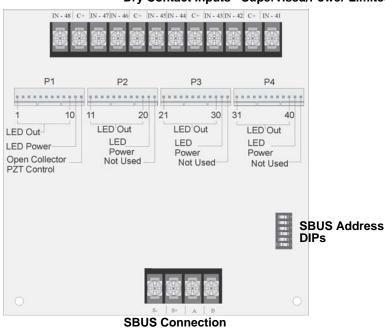
Option	Choices	
Baud Rate:	75 - 19200	
Data Bits:	5 - 8	
Stop Bits:	.5, 1, 2	
Parity:	None, Even, Odd	

4.9 5880 LED I/O Module

The 5880 is an LED driver board that can be used in a wide variety of applications, including as an interface with most customized floor plan annunciator boards. The 5880 can drive up to 40 LEDs and has one PZT controller. The 5880 also has eight inputs for dry contact monitoring. Up to 8-5880s can be added to the 6808 system. The following sub-sections describe hardware installation. Refer to Section 6 for programming information.

4.9.1 **5880 Board Layout**

Figure 4-30 is a picture of the 5880 board showing locations of screw terminals for connection to the panel and contact monitor wiring; pin connectors for connecting LEDs; and the DIP switch for selecting an SBUS ID number.



Dry Contact Inputs - Supervised/Power Limited

Figure 4-30 5880 Board Layout

4.9.2 5880 Connection to Panel

The 5880 connects to the panel via the SBUS. Make connections as shown in Figure 4-31. After the 5880 is

connected to the panel, it must be added to the system. This programming step is described in Section 4.11.

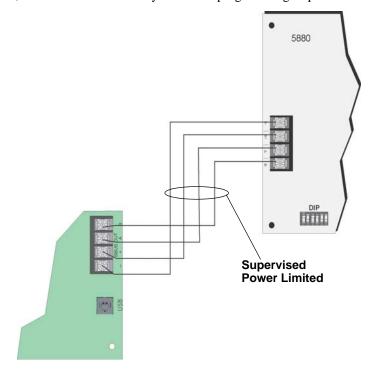


Figure 4-31 5880 Connection to Main Control Panel Assembly

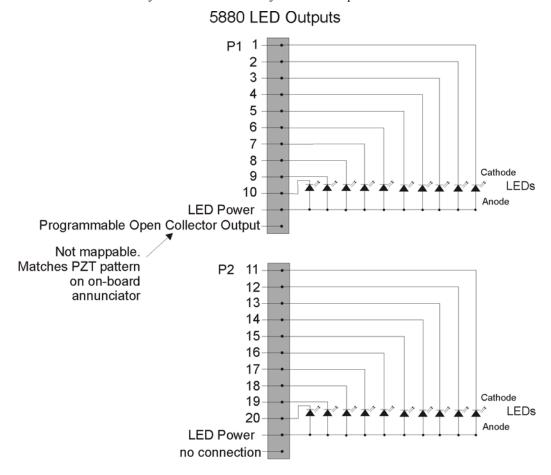
4.9.3 LED Wiring

There are four 12-pin connectors on the 5880 board for connecting LEDs. Each LED gets its power from Pin 11. Internal resistors are sized so that there is approximately 10 mA of current for each LED, no series resistors are required. LED outputs can be mapped to output circuits. See Section 6 for programming details.

Wire the LEDs as shown in Figure 4-32.

On connector P1, Pin 12 is a common open collector output for controlling a PZT. If used, the 5880 PZT will match the PZT pattern of the on-board annunciator or remote annunciator.

Note: The circuit connected to common "Open Collector Output" (last pin on P1) must be current limited so that no more than 100 mA of current is allowed to flow into the open collector transistor.



Connectors P3 and P4 wired same as P2.

Figure 4-32 5880 Board Layout

4.9.4 Dry Contact Wiring

The 8 input circuits on the 5880 board are for monitoring switch inputs-any type of switch supported by the control panel can be used with the 5880. For example, you can use a 5880 to monitor pull stations, water flow, tamper, reset, or silence switches.

Wire dry contacts as shown in Figure 4-33. Notice grouping of terminals; power terminals are shared by two inputs.

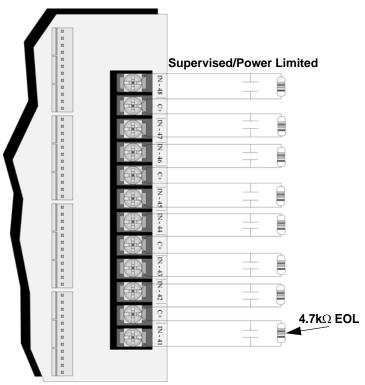


Figure 4-33 Dry Contact Wiring

4.10 5865-3 / 5865-4 LED Annunciator Installation

The 5865-3 and 5865-4 are LED annunciators. The 5865-4 has 30 mappable LEDs, remote silence and reset key switches, and a general system trouble LED. The 5865-3 has 30 mappable LEDs only. These are arranged as 15 pairs of red (typically used for alarm) and yellow (typically used for trouble) LEDs.

Installation of the 5865-3 and 5865-4 is identical. The key switches and the trouble LED follow the behavior of other system annunciators and do not require any installation steps. The following sub-sections describe how to install the 5865-3 and 5865-4 hardware. Refer to Section 6 for programming information.

Note: This manual uses "5865" when referring to aspects of the 5865-3 and 5865-4 that are common to both models.

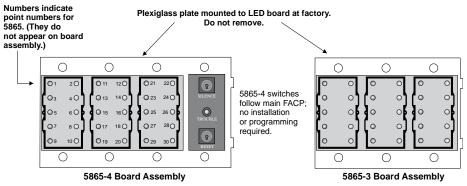


Figure 4-34 5865-3 and 5865-4 Assembly (front view)

4.10.1 5865 Connection to Panel

The 5865 connects to the panel via the SBUS. Make connections as shown in Figure 4-35. After the 5865 is connected to the panel, it must be added to the system. This programming step is described in Section 4.11.

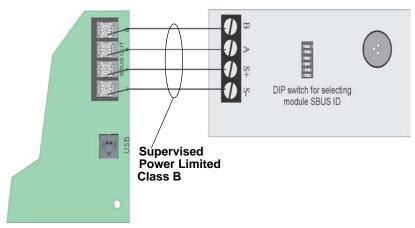


Figure 4-35 5865 Connection to the FACP

4.10.2 5865 Mounting

Mount the 5865-4 to a standard 4-gang electrical box. Mount the 5865-3 to a standard 3-gang electrical box. In

Figure 4-36, the 5865-4 attached to a 4-gang box is used as an example.

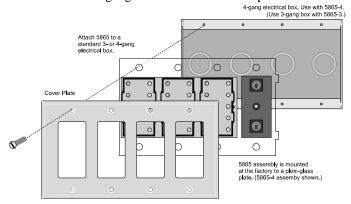


Figure 4-36 5865 Mounting Example

The 5865 ships with a set of zone description labels that can be inserted into the 5865 board assembly. These labels can be used in a typewriter or can be written on by hand. Slide the labels under the plexiglass as shown in Figure 4-37. The LEDs will show through the label when illuminated.

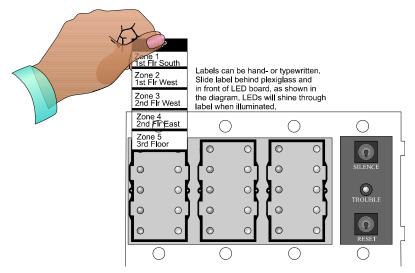


Figure 4-37 Inserting Zone Description Labels

4.11 Configuring SBUS Modules

This section describes how to configure any system hardware modules that have been added to the system.

4.11.1 Assigning Module IDs

When installing a hardware module (see Table 4-1 for list of compatible SBUS devices), you must use the DIP switches on the module to assign an ID# to the module. Address zero is an invalid address and is not allowed.

Figure 4-38 shows all possible DIP switch positions and their correlation to a numerical ID. For example, to select ID 2, place DIP switch 2 in the up position.

ON 🖥		
OFF	Address	Address
1 2 3 4 5 6	71441000	71441000
000000 o	22	00000 44
6 00000 1	23	60000 45
080000 2	000000 24	100000 46
3 0000 3	25	65 65 0 6 47
005000 4	26	000000 48
5 0 5 000 5	27	6 000 6 0 49
088 000 6	000000 28	50
888 000 7	29	51
000500 8	30	52
9	31	53
00000 10	00000 32	DBBDB 54
880800 11	33	55
000000 12	00000 34	000000 56
13	35	57
088800 14	36	58
15	37	59
000000 16	38	000000000000000000000000000000000000000
6 000 6 0 17	39	61
080080 18	000000 40	62
19	5 00 5 0 5 41	63
00000 20	00000 42	
21	43	

Figure 4-38 Possible module addresses

4.11.2 SBUS Bandwidth Considerations

Each SBUS device generates a certain amount of traffic on the SBUS. Generally, the amount of traffic generated depends on the type of SBUS device. To help you figure out the SBUS bandwidth usage of a given collection of devices, a tool is available on the Honeywell Silent Knight website (www.silentknight.com). The tool will serve as a guide to help determine how heavily loaded an SBUS is with respect to bandwidth. We recommend you use this tool if you plan to have more than eight SBUS devices per SBUS. Remember to include devices that are on 5859XL SBUS repeaters in your list of devices for SBUS bandwidth calculations.

4.12 Telephone Connection

Connect the telephone lines as shown in Figure 4-39. The Model 7860 phone cord is available from Honeywell Silent Knight for this purpose.

A number of programmable options are available for customizing telephone lines. These options are described in Section 9.6.

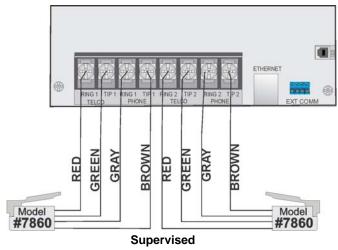


Figure 4-39 Connection of Telephone Lines

4.13 Notification Appliance/Auxiliary Power Circuits

Note: These circuits are considered regulated unless used for releasing type service, in which case they are considered special applications.

Four outputs are built-in to the 6808 FACP which can be programmed to be used as NACs (Class A or Class B) or as Aux power.

This section of the manual explains how to install conventional notification appliances and how these terminals can be used for auxiliary power.

4.13.1 Conventional Notification Appliance

This sub-section of the manual explains how to install conventional notification appliances for Class A and Class B configurations.

4.13.1.1 Class B Notification Wiring

You must use an appliance from the list of compatible appliances in Appendix A at the back of this manual.

To install a Class B notification appliance circuit:

- 1. Wire Class B Notification appliances as shown in Figure 4-40.
- 2. Configure the circuit through programming (see Section 9.5).

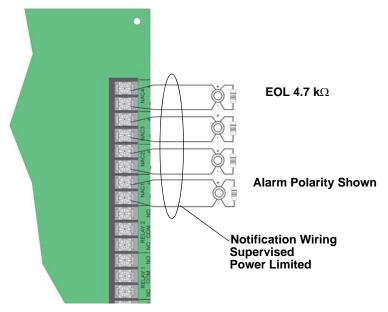


Figure 4-40 Class B Notification Appliance Circuit Wiring

4.13.1.2 Class A Notification Wiring

You must use an appliance from the list of compatible appliances in Appendix A.

To install a Class A notification appliance circuit:

1. Wire the Class A notification appliances as shown in Figure 4-41.

Caution For proper system supervision do not use looped wire under terminals marked + and – of the NAC connectors. Break wire runs to provide supervision of connections.

2. Configure the circuit for Class A in programming (see Section 9.5).

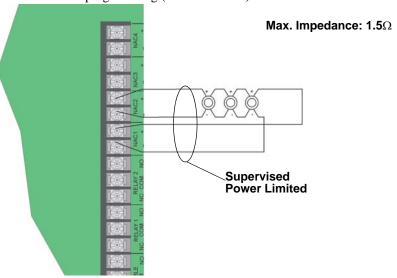


Figure 4-41 Class A Notification Appliance Circuit Configuration

4.13.2 Auxiliary Power Installation

NAC Circuits 1-4 on the control panel can be used as auxiliary power circuits. The four types of auxiliary power available are:

- Door Holder (see section 4.13.2.1)
- Constant (see section 4.13.2.2)
- Resettable Power (see section 4.13.2.3)
- Sounder Sync Power (see Section 4.13.2.4)

Auxiliary power circuits are power limited. Each circuit can source up to 3A (total current for all NAC circuits must not exceed 3A).

To install an auxiliary power circuit:

- 1. Wire the NAC circuit(s) that will be used for auxiliary power. See Figure 3-2 for location of NAC circuits.
- 2. Configure the auxiliary power output through programming (see section 9.5).

4.13.2.1 Door Holder Power

Door holder power is intended for fire door applications. When there are no alarms in the system and the panel has AC power, door holder circuits have 24-volt power present at their terminals. Any alarm will cause power to disconnect. Power will be re-applied when the system is reset. If AC power is off for more than 15 seconds, the auxiliary door holder power will be disconnected to conserve the battery backup. When AC power is restored, power is immediately restored to the door holder circuits.

4.13.2.2 Constant Power

Use constant power for applications that require a constant auxiliary power source. Power is always present at Constant circuits.

4.13.2.3 Resettable Power

Resettable power is typically used to power beam detectors, flame detectors and conventional 4-wire smoke detectors. For circuits selected as Resettable, 24-volt power is always present at the terminals unless a system reset occurs. If a system reset occurs, power is disconnected from the terminals for 30 seconds, then re-applied.

4.13.2.4 Sounder Sync Power

Sounder Sync Power continuously outputs the System Sensor synchronization pattern and is intended for use with B200S sounder bases.

4.14 On-Board Programmable Relays (Conventional)

The control panel has two built-in programmable relays and a built-in trouble relay. All relays are Form C rated at 2.5 A @ 24 VDC (resistive).

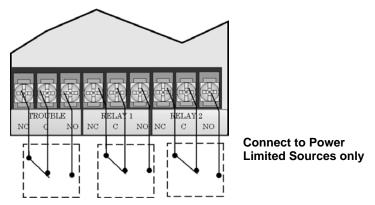


Figure 4-42 Location of Conventional Relay Circuits

Note: The N.C. contact is the relay contact that is closed when the panel has power and there are no alarm or trouble conditions.

4.14.1 Trouble Relay

The control panel has a dedicated common Form C trouble relay built into terminals labeled TROUBLE. The relay provides a normally open and a normally closed contact. The trouble relay will deactivate under any trouble condition.

4.14.2 Programmable Relays

The control panel has two Form C programmable relays built into terminals labeled RELAY 1 and RELAY 2. Each relay provides a normally open and a normally closed contact.

To install one or two programmable relays, follow these steps.

- 1. Wire Relay 1 and/or Relay 2 as needed for your application. See Figure 4-42 for the location of the relay terminals.
- 2. Configure the relay through programming (see section 9.5).

4.15 Remote Station Applications

4.15.1 Keltron Model 3158 Installation

The control panel is compatible with Keltron Model 3158, used for direct connection to a Keltron receiver. The 3158 reports alarms, supervisories, and troubles.

The steps for connecting the 3158 to the control panel. Refer to the 3158 installation instructions for complete information.

- 1. Wire the 3158 to the control panel as shown in the connection list and Figure 4-43.
- 2. Wire the 3158 within 20 feet of the control panel. Wiring must be enclosed in conduit.
- 3. Program control panel Relay 2 for alarm.
- 4. Program NAC circuit 2 for alarm.
- 5. Program NAC circuit 1 for supervisory non latching.

Note: NACs must be programmed for continuous and non-silencing.

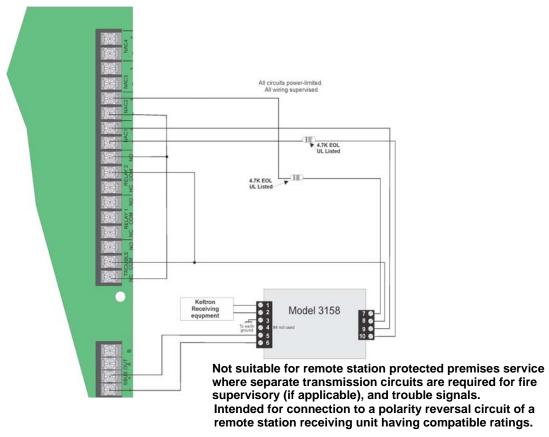


Figure 4-43 Keltron 3158 Connection to Control Panel

4.15.2 City Box Connection Using the 5220 Module

This section describes how to connect the control panel to a municipal fire alarm box or "city box" as required by NFPA 72 Auxiliary Protected Fire Alarm systems for fire alarm service. The city (master) box is an enclosure that contains a manually operated transmitter used to send an alarm to the municipal communication center which houses the central operating part of the fire alarm system.

City Box Standby Current:

0 (Notification supervision current accounted for in control panel draw.)

Alarm Current:

1 Amp for 1 second

The maximum coil and wire resistance (combined) must not exceed 30 ohms.

To install the 5220 for city box connection:

- 1. Use one of the knockouts on the right side of the control panel to connect the 5220 using a short piece of conduit (must not exceed 20 feet in length).
- 2. Wire the 5220 to the control panel as shown in Figure 4-44. This drawing also shows how to connect the city box coil to terminals 3 and 4 on the 5220. Do not install an EOL resistor in the terminals of the NAC circuit used for this application.
- 3. Connect earth ground wire to the 5220 chassis with mounting screw.
- 4. Program the NAC circuit used as a continuous and non-silencing. Refer to 9.5 for point programming, Section 9.4 for group settings, and Section 9.3 for zone settings and mapping.

It is not possible to reset the remote indication until you clear the condition and reset the control panel.

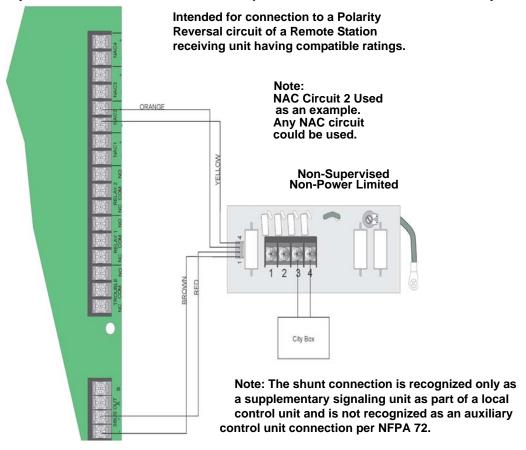


Figure 4-44 City Box Connection

4.15.3 NFPA 72 Polarity Reversal

Note: Intended for connection to a polarity reversal circuit of a control unit at the protected premises having compatible rating.

4.15.3.1 Using the 5220 Module

When the 5220 is wired and programmed for polarity reversal, it reports alarm and trouble events to a remote site. Alarms will override trouble conditions and it will not be possible to reset the remote indicator until the condition is cleared and the control panel is reset.

If an alarm condition occurs, the alarm relay will close, overriding the trouble condition.

Standby Current: 100 mA, 24 VDC

Alarm: 100 mA, 24 VDC

To install the 5220 for polarity reversal, follow the steps below:

- 1. Locate the knockout on the right side of the control panel cabinet to connect the 5220 using a short piece of conduit (must not exceed 20 feet in length).
- 2. Wire the 5220 to the control panel using the four-wire pigtail provided as shown in Figure 4-45. This diagram also shows how to connect the 5220 to the remote indicator. Do not install an EOL resistor in the terminals of the NAC circuit used for this application.
- 3. Connect earth ground wire to the 5220 chassis with mounting screw.
- 4. Program the NAC circuit used as continuous and non-silencing. Refer to Section 9.5 for point programming, Section 9.4 for group settings, and Section 9.3 for zone settings and mapping. If necessary, adjust loop cur-

rent using the potentiometer (R10) on the 5220 board. Normal loop current is 2-to-8 mA with a 1k ohm remote station protected premise unit. Maximum loop resistance is 3k ohm.

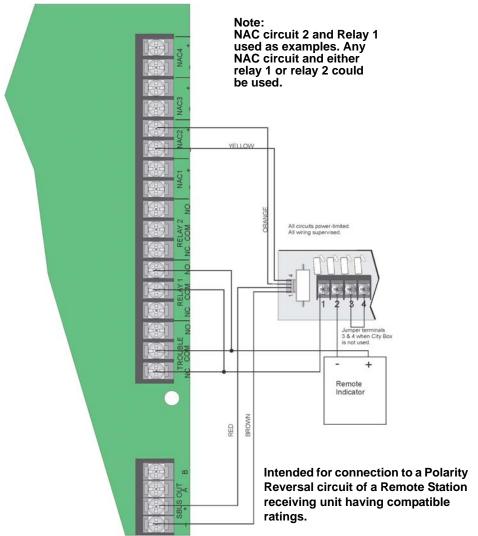


Figure 4-45 Polarity Reversal Connection Using the 5220 Module

4.15.3.2 Using the 7644-L8 Module

When the 7644-L8 is used for polarity reversal, it allows alarm and trouble events to be reported to a remote site. Alarms will override trouble conditions and it will not be possible to reset the remote indicator until the condition is cleared and the control panel is reset.

To install the 7644-L8 for polarity reversal:

- 1. Wire the 7644-L8 to the control panel as shown in Figure 4-46. Do not install an EOL resistor on the terminals of the NAC circuit used.
 - Note: Use only NAC circuits on the control panel for reverse polarity.
- 2. Program the NAC circuit as a notification circuit. See Section 9.5.1.
- 3. Map the group to activate constant on from the zone event.

7644-L8

4. Program the output group characteristics as non-silenceable and reverse polarity.

Figure 4-46 Polarity Reversal Connection Using the 7644-L8

Using the SD500-ARM Addressable Relay Module 4.15.4

When the SD500-ARM is wired for polarity reversal, it reports alarm and trouble events to a remote site. Alarms will override trouble conditions and it will not be possible to reset the remote indicator until the condition is cleared and the control panel is reset.

Relay 2 must be programmed for Alarm (default).

Note: If you need to transmit supervisories or trouble conditions, additional SD500-ARM modules must be added. *Use relay 1 to transmit supervisory conditions. Use the trouble relay to transmit trouble conditions.*

Supervised Power Limited Power

Figure 4-47 Polarity Reversal Connection Using the SD500-ARM Module

4.15.5 Using a MR-201/T Control Relay From Air Products

When the MR-201/T control relay is wired for polarity reversal, it reports alarm and trouble events to a remote site. Alarms will override trouble conditions and it will not be possible to reset the remote indicator until the condition is cleared and the control panel is reset.

If an alarm condition occurs, the alarm relay will close, overriding the trouble condition.

Current: 15 mA max.

Operating Voltage: 24 VDC nominal

Resistance: 4 KΩ

To install the MR-201/T for polarity reversal, follow the steps below:

1. Wire the MR-201/T as shown in Figure 4-48.

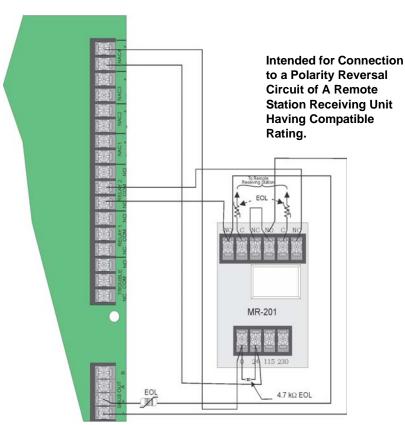


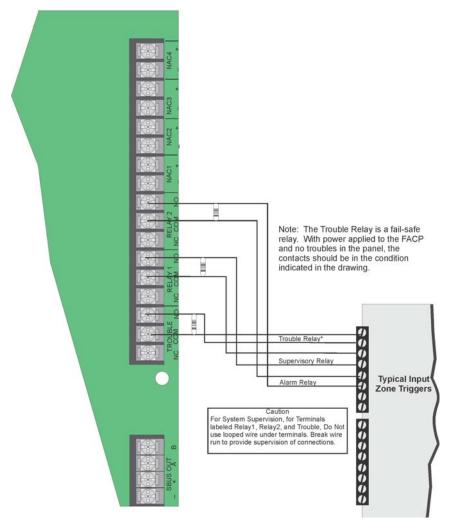
Figure 4-48 Polarity Reversal Connection Using the MR-201/T Relay

2. Program the NAC circuit for non silence NAC circuit.

Note: If you need to transmit supervisories or trouble conditions, additional relay modules must be added. Use relay 1 to transmit supervisory conditions. Use the trouble relay to transmit trouble conditions.

4.15.6 Transmitter Activated by Dry Contacts

This section describes the connection of a UL 864 listed remote station transmitter to the 6808 FACP dry contacts. The FACP contacts must be supervised by the remote station transmitter module using end-of-line resistors (ELRs) with a value determined by the transmitter manufacturer. Power is also provided by the remote station transmitter manufacturer's manual for details.



Section 5 Common Communication Link

5.1 Hardware Features

The 6808 panel can be connected to other 6808 and addressable panels to create a link where one panel is designated as the communicator for all the panels in the link. Up to 17 panels can be connected in the Common Communications Link. This does not create a peer-to-peer network and will not operate as one.

5.1.1 Panels

6808 and other applicable addressable panels can be linked together for common communications to the central station. "Sites" are used to allow for individual or common annunciation across the link. Up to 17 sites can be activated and programmed for the link.

5.1.2 Wiring Options to Connect Panels

- 1. Fiber Optic Single Mode Use the SK-NIC and SK-FSL for up to 30dB loss of signal separation. SK-FSL connects to the link using 9/125 micron single-mode fiber.
- 2. Fiber Optic Multi-Mode Use the SK-NIC and SK-FML for up to 8dB loss of signal separation. SK-FML connects to the link using 62.5/125 micron multi-mode fiber.
- 3. Twisted Pair Copper Wire must use the SK-NIC to provide up to 3000 feet of separation.

All methods of panel connectivity can be used within the same linked system.

5.2 Wiring Options

When linking a group of 6808s you must use the SK-NIC to link the panels together. See Figure 5-1 and Figure 5-2, for Internal mounting or external mounting of SK-NIC option.

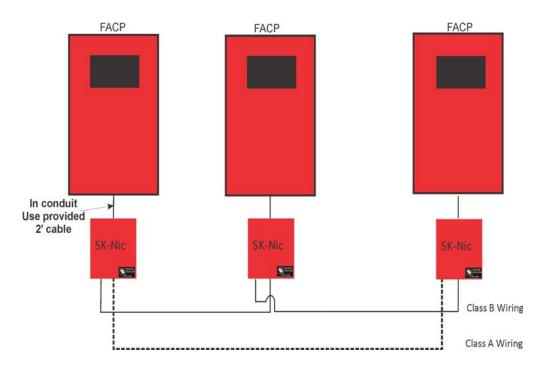


Figure 5-1 EXTERNAL SK-NIC-KIT Wiring Option

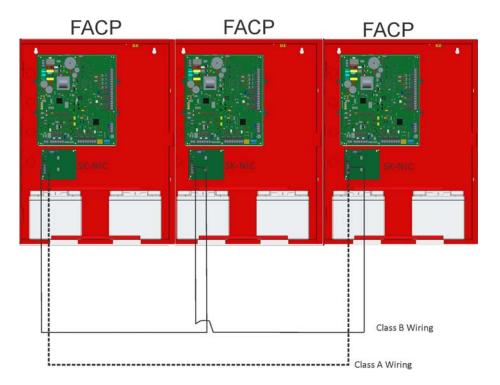


Figure 5-2 Internal SK-NIC Wiring Option

5.3 SK-NIC Wiring Options

Linking a group of 6808s requires the use of a SK-NIC, network interface card with each panel. The SK-NIC connects to other linked units using unshielded, twisted-pair wiring or fiber-optic cable.

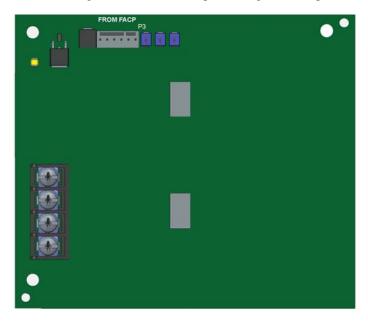
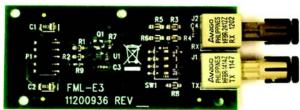


Figure 5-3 SK-NIC Network Interface Card

5.3.1 Fiber Loop Modules

Two types of fiber optic modules are available to use to transmit and receive communication with the SK-NIC. See Figure 5-4. For more information see SK-FML / SK-FSL installation sheet P/N LS10178-001SK-E.





SK-FSL Single-Mode Fiber

SK-FML Multi-Mode Fiber

Figure 5-4 Types Fiber Loop Modules

The SK-FML (Fiber-Optic Multi-Mode) and SK-FSL (Fiber-Optic Single-Mode) are plug-in fiber loop modules. The two types of fiber optic modules are used as one channel to transmit or receive communications with the SK-NIC, ARCNET communication circuit.

The following describe the two types of fiber optic modules.

- The SK-FML is a fiber module that allows the multi-mode fiber to link between nodes.
- The SK-FSL is a fiber module that allows the single-mode fiber to link between nodes.

Each fiber loop module can Transmit (TX) and Receive (RX) fiber-optic cable connecting to the SK-NIC. Up to two fiber loop cards can be added to the SK-NIC, and both cards may be combined in the same configuration.

See Figure 5-5.

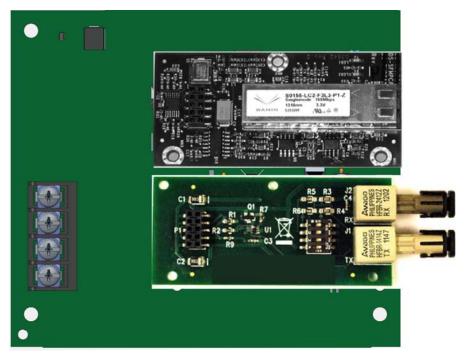


Figure 5-5 SK-NIC with Fiber Loop Modules

5.3.1.1 SK-NIC-KIT Mounting Kit

SK-NIC can be mounted within the 6808 cabinet or in the SK-NIC-KIT accessory cabinet. The SK-NIC-KIT includes the SK-NIC, cabinet with door, cable, & mounting hardware. The accessory kits are available if you want to install the SK-NIC outside of the 6808 cabinet.

5.3.2 SK-NIC Installation

The SK-NIC is designed to mount on one of the SLC standoff sets inside the cabinet or remotely using the SK-NIC-KIT.

Use the following steps to properly mount the SK-NIC inside the 6808.

1. Place the SK-NIC on one of the SLC standoff sets.

2. Use the 6-pin cable included with SK-NIC to connect the 6808 to the SK-NIC. Connect the SK-NIC to the pin connector on the control panel labeled Data Network. See Figure 5-6.

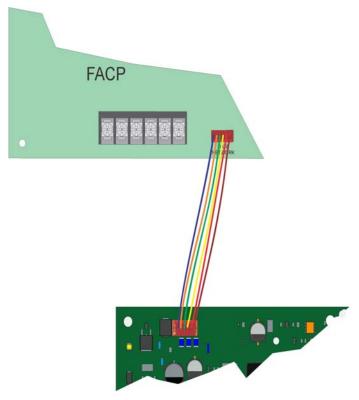


Figure 5-6 Panel to SK-NIC connection

- 3. Each SK-NIC has the ability to monitor for earth ground faults on the twisted pairs connected to Port 1 of its terminal block TB2. Earth fault detection for any wiring at Port 2 of TB2 is done at the next/previous SK-NIC due to these wiring connections being connected to Port 1 of TB2 at the next/previous SK-NIC.
- 4. Unused optic ports on fiber loop modules must have their dust caps placed on the port.
- 5. Based on the type of data medium chosen, run the twisted pair wiring/fiber optic cable to the next SK-NIC using a class B or class A wiring method. A combination of both medium types can be used. See Figure 5-7, Figure 5-8, Figure 5-9, and Figure 5-10 for SK-NIC wiring examples.

To mount the SK-NIC remotely:

Follow the steps above except, The 6-pin cable that runs from the SK-NIC to the 6808 must be run in conduit. See Figure 5-1.

5.3.2.1 Unshielded Twisted Pair Wiring between Multiple Panels

Unshielded twisted pair wiring between multiple panels is shown in Figure 5-7. Class A wiring is shown with a dotted line.

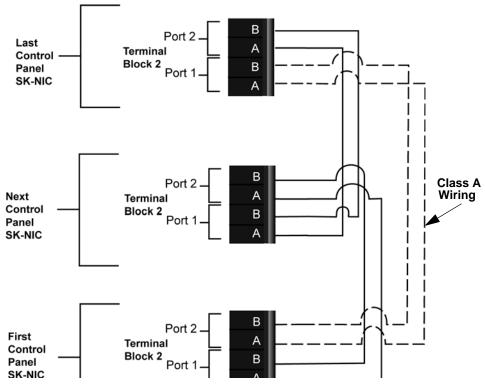


Figure 5-7 Twisted Pair Wiring Configuration

5.3.2.2 Fiber Optic Multi-Mode Wiring between Multiple Panels

Fiber optic cable between multiple panels is shown in Figure 5-8. Class A is shown with a dotted line.

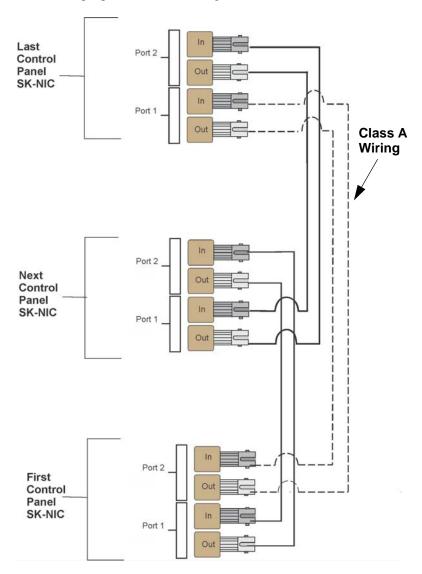


Figure 5-8 Fiber Optic Wiring Example

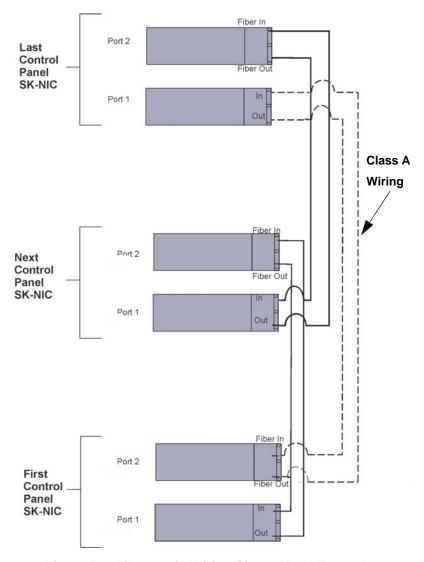


Figure 5-9 Fiber Optic Wiring Single-Mode Example

5.3.2.3 Fiber Optic and Twisted Pair Wiring between Multiple Panels

A mixture of fiber optic cable and twisted pair wiring between multiple panels is shown in Figure 5-10. Class A cabling is shown with dotted line.

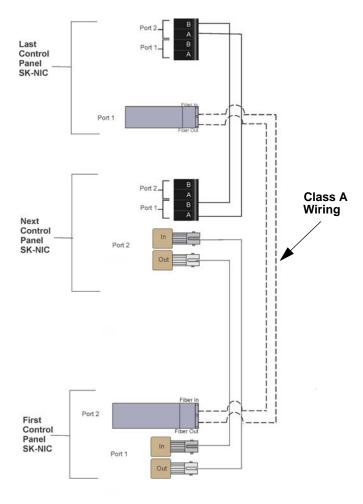


Figure 5-10 Twisted Pair and Fiber Optic Combination Wiring Example

5.4 Setting the Panel ID

Note: It is important that much thought is given when choosing the panel IDs for each panel. It is difficult to change the IDs once panel programming has begun.

The panel ID for each panel is set using DIP switch positions 1 through 5. See Figure 5-11 below for possible DIP switch settings.

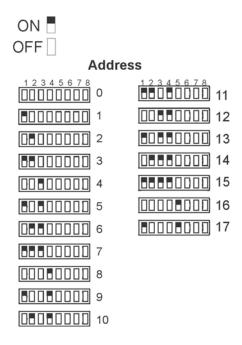


Figure 5-11 ID Settings

Network Management LS10146-001SK-E

Section 6 Network Management

Note: Although the word "Network" is used in this section, it applies to system menus that relate to the physical wire and/or fiber optic connections between multiple panels. The 6808 does not support peer-to-peer networking.

6.1 Network Diagnostics

6.1.1 Ping Panel

The Ping Panel menu allows you to continually ping any panel programmed into the network. As the selected panel is being pinged, the Ping Panel screen will display the reply time, minimum and maximum reply times, and sent and received counters.

- 1. Enter the Installer Code. The panel will automatically go to the main menu.
- 2. Select 5 for Network Diagnostics.
- 3. Press 1 to enter the Ping Panel Menu.
- 4. Press the up or down arrow key to select Network Panel ID. Press ENTER to Ping panel.

6.1.2 Data Network Status

The Data Network Status screen will display statistics that are indicators of Network performance.

- 1. Enter the Installer Code. The panel will automatically go to the main menu.
- 2. Select 5 for Network Diagnostics.
- 3. Press 2 to enter the Data Network Status menu.

6.2 Network Programming

This section of the manual describes how to program network options using the built-in annunciator. All options described in this section can be programmed using the HFSS Honeywell Fire Software Suite. To edit site assignments, HFSS must be utilized.

6.2.1 Learn Network

The Learn Network menu shows you all of the panels connected to the network. Any panel that has been programmed into the network will appear as a "member." Any panel that is connected to the network but not programmed into the network will appear as a "guest." You can add guest panels to the network by changing their status to member in this menu. Panels showing OK are currently responding on the network. Panels not showing OK have either been removed or are not responding due to networking problems. See Section Figure 6.1 for Network Diagnostics.

- 1. Enter the Installer Code. The panel will automatically go to the main menu.
- 2. Select 6 for Network Programming.
- 3. Press 1 to enter the Learn Network menu.

4. Press ENTER to add or remove panels connected to the network as member or guest.

Note: If adding panels to network, the system will automatically run the Sync Network Options. you will be required to select which panel to distribute network options from. See Section 6.3.

6.2.2 Edit Network Names

The Edit Network menu allows you to edit the panel name and edit the panels site name.

To Edit Panel Names:

- 1. Enter the Installer Code. The panel will automatically go to the main menu.
- 2. Select 6 for Network Programming.
- 3. Press 2 to enter the Edit Network Names menu.
- 4. Press 1 to Edit Panel Names. Choose Panel to edit.

6.2.3 Edit Panel ID

This menu option allows you to change the current Network Panel ID. It is best to carefully consider the network ID setting for each panel. Take into account any future panels that will be added to the network (future wiring of two buildings together). The Network Panel ID setting has to be unique for each panel on the network.

This menu will allow you to change the currently assigned Network Panel ID to the current Network ID dip switch setting. The system will be down as the panel needs to reboot in order to complete the transition.

When using the PC configuration software to program the panels, the Network Panel ID will be locked from future editing. The only way to change it will be to restore defaults and use this menu again.

To Edit the Network Panel ID:

- 1. Enter the installer code. The panel will automatically go to the main menu.
- 2. Select 6 for Network Programming.
- 3. Press 3 to enter the Edit Panel ID menu.
- 4. If the Network Panel ID is changed and valid, the system will ask you to confirm the change. If it is not correct, you can change the dip switches at this time.
- 5. Press up to select YES and press ENTER to confirm.

6.2.4 Computer Access

An installer at the panel site can initiate communications between the panel and a computer running the HFSS Honeywell Fire Software Suite (see also Section 10.4). In order for this communication to function properly, both the computer (running the software) and the control panel must have matching computer access numbers and computer codes.

To program computer access information:

- 1. Enter the installer code. The panel will automatically go to the main menu.
- 2. Select 6 for Network Programming.
- 3. Press 4 to enter the Computer Access menu.
- 4. Enter the computer access number (up to 6-digits), then press ENTER.
- 5. Enter the computer code, then press ENTER.

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6.2.5 Access Codes

Access codes provide the user access to the control panel functions. Each access code can be customized for each user. This allows some users the ability to access programming and other higher level panel functions, while other users may only need access to lower level functions such as preforming fire drills, or acknowledging trouble conditions.

Profile 1 is the profile that dictates what functions the Fire Fighter Key has access to. Because this is the profile for a key, the user name and the access code can not be edited for this profile.

Profile 2 is the profile for the installer and is referred to as the "Installer Code". This profile's user name and panel functions can not be edited. Table 7-9 lists the panel functions that can be selected for each user profile.

Table 6-1: User Profile Selectable Panel Functions

Type of Function	Selectable Functions
	System Reset
	System Silence
	System Ack
Panel Operations	Fire Drill Key
i anei Operations	*F1 Function Key
	*F2 Function Key
	*F3 Function Key
	*F4 Function Key
	System Tests
	Fire Drill Menu
	Indicator Test
	Walk Test-No Report
	Walk Test -With Report
	Communicator Test
	Clear History Buffer
	Point Functions
	Disable/Enable Point
	Point Status
Panel Menus	Set SLC Device Address
	SLC Single Device Locator
	SLC Multiple Device Locator
	I/O Point Control
	Event History
	Set Time & Date
	System Information
	Network Diagnostics
	Network Programming
	Panel Programming
	Send/Receive Firmware Update

^{*}Function Keys are only available on the LCD annunciator

To change an access code:

- 1. Enter the installer code. The panel will automatically go to the main menu.
- 2. Select 6 for Network Programming Menu.
- 3. Select 5 for Access Codes.

Display reads: Select Profile 01

Fire Fighter's Key

- 4. Select the access code you wish to edit by pressing the up or down arrow key.
- 5. Then press ENTER.

Profile Edit Menu

From the Profile Edit Menu you can change the users name, access code, and the panel functions that the user will have access to with their code.

Note: Profile 1 (Fire Fighter's Key) the user name and access code can not be edited. Profile 2 (Installer) the user name and panel functions can not be edited. Profile 3 (Multi-Site Installer) is defaulted with the Multi-Site access option, but the entire profile can be edited.

6.2.5.1 Edit Name

- 6. See Appendix B for a list of available characters and their numeric designators.
- 7. Then press ENTER to finish.

6.2.5.2 Edit Access Code

- 8. Enter new access code (minimum of 4 digits, maximum of 7 digit).
- 9. Press ENTER.
- 10. Enter code again. Press ENTER.

6.2.5.3 Panel Functions

- 11. Press the up or down arrow key to move through the list of available functions.
- 12. Then press right arrow to move to Y (yes) or N (no) selection column.
- 13. Press the up or down arrow key to select Y or N.
- 14. Press ENTER.
- 15. Repeat steps 11 through 14 until user profile is complete.

6.2.6 Communicator Options

Communicator options provides the configuration for reporting events to a central station.

- 1. From the main menu.
- 2. Select 6 for Network Programming.
- 3. Press 6 to enter Communicator Options menu.

6.2.6.1 Communicator Assignments

Each panel in the 6808 communication link system specifies which communicator is used for reporting. The communication link capability of the linked system allows all panels to use the same communicator providing an economical solution for reducing the number of paths required for reporting purposes. A communicator is

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specified by panel number. The communication link will be used to report events according to the communicator report table.

6.2.6.2 Communicator Miscellaneous

When using the SIA reporting format, the communicator sends information according to the SIA Reporting Type. The selections for this option are:

1. pi modifier (default)

2. Panel ID*

Note: *Only SIA sends the panel ID when reporting.

6.2.6.3 Receiver Configuration

The 6808 communication link can report events to as many as 68 receivers. See Appendix C for panel/receiver relationship numbers. Each receiver is assigned reporting Credentials. When using a format that supports phone numbers, they can be up to forty digits long.

- 1. From the main menu.
- 2. Select 6 for Network Programming.
- 3. Press 6 to enter Communicator Options menu.
- 4. Select 3 for Receiver Configuration.
- 5. Select Panel to Program and press ENTER.
- 6. Enter the receiver number that you want to report to. The receiver numbers available will correspond with what panel number you entered. Receiver numbers are populated based on panel number and audited to allow only the 4 appropriate receivers. See Appendix C for receiver number.

Available Format choices are:

Reporting Format
Contact ID
SIA500
SIA8
SIA20
Ethernet
Cellular
eVance
UNUSED

6.2.6.4 Communicator Reporting Table

The Communicator Report Table specifies event reporting for each panel on the communication link. Each row in the table specifies a panel, event types to report, primary and backup receiver numbers, and report by point or zone. Associated with the receivers are account number and daily test option. The table can have up to 99 rows.

- 1. From the main menu.
- 2. Select 6 for Network Programming.
- 3. Press 6 to enter Communicator Options menu.

- 4. Select 4 for Communicator Reporting Table.
- 5. Press * to add rows, Press ENTER to edit data

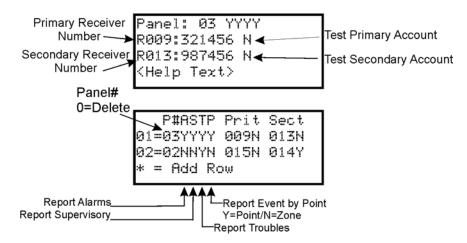


Figure 6-1 Communicator Reporting

6.3 Sync Network Options

If after making changes to network programming, the distribution of network options fail, the system will report a trouble of network options out of sync. Use this menu to redistribute changed options to the rest of the network. The user will be required to choose a panel to source the options from. Scroll down through the informational message and press ENTER to view the Select Source screen.

- 1. Enter the installer code. The panel will automatically go to the main menu.
- 2. Select 6 for Network Programming Menu.
- 3. Select 8 for Sync Network Options.
- 4. Select which panel to source the options from.

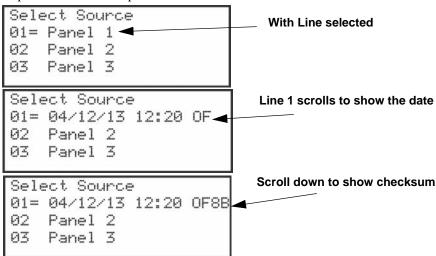


Figure 6-2 Sync Network Options

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6.4 Network Management Quick Reference

	Menu	Options/Defaults		Comments	
	Learn Network	Guest or member	Add or remove panels into the network		See Section 6.2.1
	Edit Network	Panel Names	Network Panel ID	Edit Panel Names	See Section 6.2.2
	Names	Site Names	Edit Site Member	Edit Site Names	
	Edit Panel ID	Change current panel ID			See Section 6.2.3
	Computer Access	Computer Access Number	*123456		See Section 6.2.4
		Computer Code	*0		
			Edit Name		Profile 1 is the profile that
			Edit Access Code		dictates what functions the Firefighter Key has access to.
				System Reset	Because this is the profile for a
				System Silence	keys, the user name and the
				System ACK	access code can not be edited for this profile.
		des Select Profile (01 - 20)		Fire Drill Key	The same promot
				System Tests	Profile 2 is the profile for the
Network				Fire Drill	installer and is referred to as the "Installer Code". This profile's user name and panel functions
Programing				Indicator Test	
				Walk Test-No Report	can not be edited. See Section 6.2.5.
				Walk Test-With Report	See Section 0.2.5.
				Communicator Test	
	Access Codes		Panel Functions	Clear History Buffer	
				Point Functions	
				Disable/Enable Buffer	
				Point Status	
				Set SLC Device Address	
				SLC Single Device Locator	
				SLC Multi-Device	
				Locator	
				I/O Point Control	
				Event History	
				Set Time & Date	
				Network Diagnostics	

	Menu	Options/Defaults		Co	omments	
	Access Codes	Select Profile (01 - 20)	Panel Functions	Network Programming Panel Programming System Information Multi-Site Upload/Download F1 Function Key F2 Function Key F3 Function Key F4 Function Key Send/Receive Firmware Update	Profile 1 is the profile that dictates what functions the Firefighter Key has access to. Because this is the profile for a keys, the user name and the access code can not be edited for this profile. Profile 2 is the profile for the installer and is referred to as the "Installer Code". This profile's user name and panel functions can not be edited. See Section 6.2.5.	
		Communicator Assignments	Select Panel	Primary	0= unused	See Section 6.2.6
		Communicator Miscellaneous	SIA Options	Enable pi SIA Modifier Include Panel ID in SIA		See Section 6.2.6.2
		Receiver Configuration	Select Panel	Select Receiver	Receiver Number	See Section 6.2.6.3
				Contact ID		-
Network				SIA500		†
Programming				SIA8		1
(cont.)				SIA20		-
			Receiver Format	eVance		-
				Ethernet		†
				Cellular		-
	Communicator			UNUSED	SED SED	
	Options		Receiver Credentials	S		-
			1	Panel		1
				Report Alarms		
				Report Supervisory		
				Report Troubles	1	
				Report Events by Point		
		Communicator Repo	ort Table	Primary Receiver	See Section	6.2.6.4
			·			
				Test Primary Account	1	
				Secondary Receiver		
				Secondary Account		
				Test Secondary	1	
				Account		

Section 7 SK, SD and SWIFT[™] Wireless SLC Device Installation

Caution!

To avoid the risk of electrical shock and damage to the unit, power should be OFF at the control panel while installing or servicing.

7.1 List of SK SLC Devices

The following SK SLC devices can be used with the control panel. See the appropriate section number in this manual or the device installation instructions (packaged with the device) for more information.

Note: The control panel supports the use of **either** SK or SD SLC devices. You cannot install both SLC device types on the control panel.

Table 7-1: SK SLC Devices

SK Model Number	Model Name/Description	Section/ Install Sheet PN
SK-Photo	Photoelectric smoke detector	
SK-Photo-T	Photoelectric smoke detector with thermal (135°F)	156-3426-00
SK-Acclimate	Multi criteria photoelectric smoke detector with thermal (135°F)	
SK-Beam	Reflected beam smoke detector without test feature	
SK-Beam-T	Reflected beam smoke detector with test feature	156-3433-00
SK-Duct	Photoelectric duct smoke detector with extended air speed range	156-3432-000
SK-Heat	Fixed temperature thermal detector (135°F)	
SK-Heat-ROR	Rate-of-rise thermal detector with 135° fixed temperature	156-3429-000
SK-Heat-HT	Fixed high temperature thermal detector (190°F)	
SK-Pull-SA	Addressable single action pull station	156-3446-001
SK-Pull-DA	Addressable dual action pull station	156-3447-001
SK-ISO	Fault isolator module	156-3445-000
SK-Monitor	Monitor module	156-3442-000
SK-Minimon	Mini monitor module	156-3444-000
SK-Monitor-2	Dual input monitor module	156-3435-000
SK-Mon-10	10 input monitor module	156-3443-000
SK-Relay	Addressable relay module	156-3438-000
SK-RelayMon-2	Dual relay/monitor module	156-3735-000
SK-Relay-6	Six relay control module	156-3439-000
SK-Zone	Addressable zone interface module	156-3440-000
SK-Zone-6	Six zone interface module	156-3441-000
SK-Control	Supervised control module	156-3436-000
SK-Control-6	Six circuit supervised control module	156-3437-000
SK-FIRE-CO	CO Smoke Detector I56-3945-00	

Table 7-1: SK SLC Devices

B200SR	Sounder Base	156-3392-00
B200S	Sounder Base	156-3687-00
B201LP	6" mounting base	K200-07-00
B224BI	6" isolator base	156-0725-00
B224RB	6" relay base	156-2815-00
B501	4" mounting base	156-0357-00
B200SR-LF	Low Frequency Intelligent Sounder Base	156-4152-00
B200S-LF	Low Frequency Intelligent Sounder Base	156-4151-00

7.2 List of SD SLC Devices

The following SD SLC devices can be used with the control panel. See the appropriate section number in this manual or the device installation instructions (packaged with the device) for more information.

Note: The control panel supports the use of either SD or SK SLC devices. You cannot install both SLC device types on this control panel.

Table 7-2: SD SLC Devices

SD Model Number	Model Name/Description	Install Sheet PN
SD505-PHOTO	Photoelectric smoke detector.	
SD505-HEAT	Absolute temperature heat detector. Trip point range from 135°F–150°F (0°C–37°C).	150955
SD505-6AB	6" base	
SD505-6IB	6" short circuit isolator base	156-3541-00
SD505-6RB	6" relay base	156-3542-00
SD505-6SB	6" sounder base	156-3540-00
SD505-DUCT	Duct Smoke Detector. Duct Housing including the SD505- Analog Photoelectric Smoke Sensor. Intake tubing for duct available in three lengths: SD505-T2 (2.5 foot); SD505-T5 (5 foot); SD505-T10 (10 foot)	
SD505-DUCTR	Duct Detector housing with relay base. Duct housing with relay base including SD505- Analog Photoelectric Smoke detector pre-installed	
SD500-PS/-PSDA	Single or dual action addressable pull station 156-3632	
SD500-AIM	Addressable input module (switch input), standard size, DIP switch configurable	156-3547-00
SD500-MIM	Mini input monitor module (switch input), small size, DIP switch configurable.	- 150-5547-00
SD500-ANM	Addressable notification module 156-	
SD500-ARM	Addressable relay module DIP switch configurable.	
SD500-SDM	Addressable smoke detector module.	156-3546-00
SD500-LIM	Line isolator module. Fits in a double gang box.	
SD505-DTS-K	Remote test switch & LED indicator for the SD505-DUCTR	1700-09882

7.3 SWIFT® Wireless SLC Devices

The WSK-WGI Wireless Gateway acts as a bridge between a group of wireless fire devices and a SLC loop on the 6808. It is powered by the SLC loop or by a regulated, external 24VDC UL-listed power supply.

Available wireless devices include a photo detector, a photo/heat detector, a fixed-temperature heat detector, a rate-of-rise detector, and a monitor module. For updated information about wireless devices, system setup and operation see the SWIFT Smart Wireless Integrated Fire Technology Manual # LS10036-001SK-E for more information.

7.4 Maximum Number of Devices

The 6808 supports SK SD or SWIFTTM SLC devices on one 6808 system. The maximum number of devices per system varies depending on device protocol. Device support is as follows:

• SK Devices—A 6808 system can support a total of 99 SK detectors *and* 99 SK modules. The SLC points can be all sensors or all modules or any combination of modules and sensors.

OR

- SD Devices—A 6808 system can support a total of 127 SD SLC detectors and modules, in any combination.
 OR
- SK SWIFT Wireless Devices—A SWIFT Gateway system supports up to 50 devices: 1 SWIFT Gateway and up to 49 (in any combination) wireless detectors and monitor modules. Multiple Gateways can be used. See the SWIFT manual P/N LS10036-000SK-E for more information.

7.5 Wiring Requirements for SLC Devices

The following information applies to all SLC devices. Refer to the section that describes the type of device you are installing for details.

7.5.1 SK Modules

The SLC can be programmed to operate in SK mode. While shielded wire is not required, it is recommended that all SLC wiring be twisted-pair to minimize the effects of electrical interference. Use Table 7-3 to determine the specific wiring requirements for the SLC.

Table 7-3 SLC Wiring Requirements for SK modules

Wire Requirements	Distance in Feet (meters)	Wire Type
RECOMMENDED : Twisted-unshielded pair, 12 to 18 AWG (3.31mm ² to 0.82 mm ²). 50 ohms, maximum per length of Style 6 & 7. 50 ohms per branch maximum for Style 4 loop.	12,500 ft. (3,810 m) 9,500 ft. (2895.6 m) 6,000 ft. (1,828.8 m) 3,700 ft. (1,127.76 m)	12 AWG (3.31 mm ²) 14 AWG (2.08 mm ²) 16 AWG (1.31 mm ²) 18 AWG (0.82 mm ²)
Untwisted, unshielded wire, in conduit or outside of conduit.	5,000 ft. (1,528 m) 3,700 ft. (,127.76 m)	12 to 16 AWG (3.31 ² mm to 1.31 mm ²) 18 AWG (0.82 mm)
Twisted, shielded pair Note: Shields must be isolated from ground Shields should be broken at each device	5,000 ft. (1524 m) 3,700 ft. (1,127.76 m)	12 to 16 AWG (3.31 mm ² to 1.31 mm ²) 18 AWG (0.82 mm ²)

Note: Maximum total capacitance of all SLC wiring (both between conductors and from any conductor to ground) should not exceed 0.5 micro farads.

Figure 7-1 and Figure 7-2 show how wire length is determines for out and back tap and T-Tap style wiring.

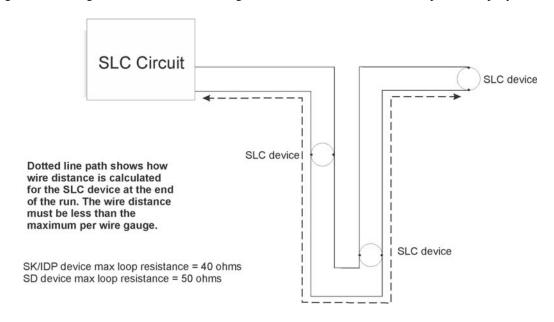


Figure 7-1 Calculating wire run length for a simple out and back tap

When using T-taps, the total length of all taps and the main bus must be met in addition to the maximum distance requirements for the various wire gauges

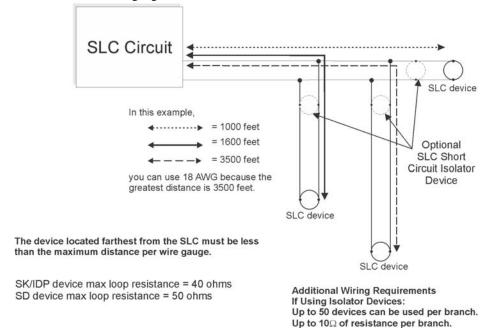


Figure 7-2 Calculating Wire Run Length for T-tap

7.5.2 Wiring SLC in Class A Configuration

Figure 7-3 illustrates how to wire the SLC loop for Class A installations.

Note: Style 6 does not use short circuit isolator devices

Note: Style 7 requires an isolator module as the first device on the in and the out loop

Note: No t-taps allowed on class A SLC loops.

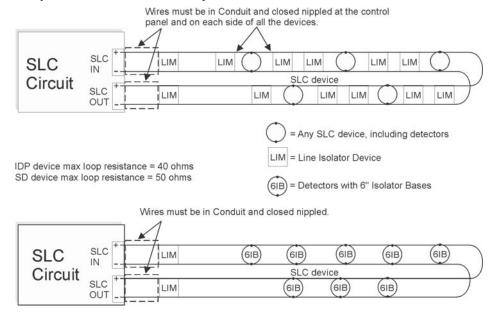


Figure 7-3 Class A SLC Configuration

7.6 Addressing SK Devices

All SK devices are addressed using the two rotary dials that appear on the device board. Use the *ONES* rotary dial to set the ones place in a one or two digit number, and use the *TENS* rotary dial to set the tens place in a two or three digit number.

The control panel recognizes when an SK detector or SK module is installed. For this reason, SK detectors can be assigned any unique address from 1 to 99, and SK modules can be assigned any unique address from 1 to 99. There can be an SK detector using address 1 and an SK module using address 1. 0 is an invalid address.

Example 1: To select device address 35, turn the ONES rotary dial to **5** and the *TENS* rotary dial to **3** as shown in Figure 7-4.

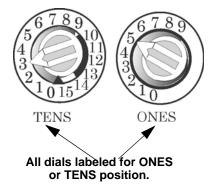


Figure 7-4 SK SLC Device Addressing Using Rotary Dials

7.7 Wiring SK Detectors

This section describes how to install SK heat and smoke detectors. See Table 7-1 for a list of detectors. Refer to the detectors' installation instructions for more detailed information.

To Wire SK detectors:

- 1. Wire device bases as shown in Figure 7-5.
- 2. Set the address for each device as described in Section 7.8.

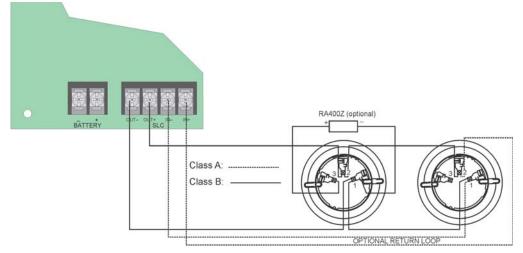


Figure 7-5 Heat and Smoke Detector Connection to the Panel.

7.8 Wiring SD SLC Detectors

The information in this section applies to SD models. See Table 7-2 for list of detectors.

To Wire SD Detectors

- 1. Wire device bases as shown in Figure 7-6.
- 2. Set the address for each device as described in Section 7.9.

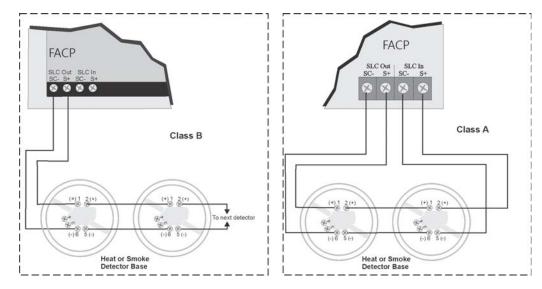


Figure 7-6 Heat or Smoke Detector Connection to the FACP (Class B)

7.9 Addressing SD SLC Detectors

This section tells how to address detectors and modules. See Table 7-2 for list of detectors.

1. Connect a detector base temporarily to the programming terminals as shown in Figure 7-7. (You can use the same base for each detector).

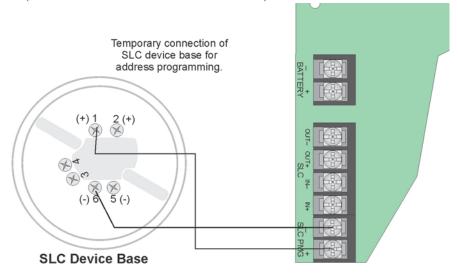


Figure 7-7 Temporary Connection of Detector Base to Panel for Addressing

- 2. Enter the Installer code, then press ENTER.
- 3. Select 2 for Point Functions.
- 4. Select 3 for Set SLC Dev Addr.
- 5. Select "Yes" by pressing the up arrow, then press ENTER. (The panel will go into trouble at this point. You can use the SILENCE key to stop the PZT. The trouble will clear automatically when the panel reinitializes when you finish programming.)
- 6. When the wait message clears, the following options display:
 - 1- for Read Address. Use to read (or check) a single detector's address.
 - 2 for Write Address. Use to program a single detector's address.
 - 3 for Seq. Programming. Use to program more than one detector in sequential order.
- 7. If you are changing addresses, write the programmed address on the back of the device.
- 8. To exit press left arrow until fully exited.

7.9.1 SLC Devices with DIP Switches

Input and relay module addresses are set using the DIP switches on the module board. The chart below shows the available addresses. For example, to select address 3, place DIP switches 1 and 2 in the up position. The range of valid addresses is 1-127. 0 is an invalid address.

ON 🖣			
OFF Note: Dip sv	vitch 8 must always be	e OFF.	
12345678 Address	12345678 Address	12345678 Address	12345678 Address
000000000000000000000000000000000000000	0000 0 32		00000000 96
8 0000000 1	6 0000 33	65	6 0000 6 0097
□ 2	0000000000000		1
88 0 0 0 0 0 0 3	8 8 9 9 9 9 9 9 9 9 9 9	67	66
00 8 0 0 0 0 0 4	00 8 0 0 8 0 0 36	[] 68	000000000000000000000000000000000000000
8 0 8 00000 5	8 8 9 9 9 9 9 9 9 9 9 9	69	8 0 8 00 8 00 101
OBBOOO 6	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□	0 8 0 0 0 0 0 0 0 0 0 0	102
888 0000 7	888	888	103
8 [[[[000000000000000000000000000000000000000	000 🖥 🛭 ী 🗎 72	000000000000000000000000000000000000000
B	6 00 8 0 8 00 41	8 00 8 00 8 0 73	105
□ □ □□□□□□ 10	□ ■□■□□□ 42	08080080 74	0808080 106
88 080000 11	66	88080080 75	107
00000012	00000000 44	00000 76	000000000000000000000000000000000000000
BOBBOOOD 13	6066000 45	B D B B D D D 77	109
08880000 14	0000000 46	000000 78	110
8888 0000 15	66660000 47	666 6 6 6 6 6 6 6 6 6	111
000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	00000000 112
80008000 17	B	B	113
DB008000 18	000000000000000000000000000000000000000	0000000 82	0000000 114
19	66 008800 51	83	115
000000000000000000000000000000000000000	00000000052	00808080 84	116
80808000 21	53	85	117
08808000 22	08808800 54	0000000 86	118
23	55	87	119
00088000 24	56	00088080 88	120
25	57	89	121
26	08088800 58	000000000000000000000000000000000000000	122
27	59	91	123
28	60	0000000 92	124
29	61	93	125
30	62	08888080 94	126
31	63	95	127

Figure 7-8 SLC Device Addressing Using DIP Switches

7.10 SK-WGI Wireless Gateway

Note: The SK-WGI, as part of the wireless network, has been tested for compliance with the Federal Communications Commission (FCC) requirements of the United States Government. It has not been evaluated for use outside the USA. Use of this system outside the USA is subject to local laws and rules to which this product may not conform. It is the sole responsibility of the user to determine if this product may be legally used outside the USA.

Note: It is recommended to use the same wire gauge if there are multiple connections to the same terminal. For more information regarding Gateway wiring instructions, see SWIFT manual LS10036-000SK-E.

7.10.1 Power Connections for the Gateway

The SK-WGI Wireless Gateway acts as a bridge between a group of wireless fire devices and a SLC loop on the 6808. It is powered by the SLC loops or by a regulated, external 24 VDC UL listed power supply. For details about wireless devices, system setup, and operation, see the SWIFT Smart Wireless Integrated Fire Technology Instruction Manual P/N LS10036-000SK-E.

Section 8 Programming Overview

This section of the manual is intended to give you an overview of the programming process. Please read this section of the manual carefully, especially if you are programming the control panel for the first time.

The JumpStart® Autoprogramming feature automates many programming tasks and selects default options for the system. You will run JumpStart at least once when you are installing the system. See Section 8.1 for details. After you run JumpStart, you may need to do some additional programming depending on your installation.

Programming the panel can be thought of as a three part process. You must program:

- System options. These are options that affect general operation of the panel (see Section 9.6 for details).
- Options for input points and zones. These are primarily options that control detection behavior of devices (see Section 9.5 for details).
- Options for output points and groups. This includes selecting characteristics for output groups and mapping output circuits to output groups (see Section 9.5 for details).

8.1 JumpStart Autoprogramming

The JumpStart® Autoprogramming feature allows for faster system setup. When you run JumpStart Autoprogramming (immediately after addressing SLC devices), the system scans devices on all SLC loops and determines device type (for example, ionization smoke detector or heat sensor) and selects some system options based on the device type. This saves the installer from having to program options for each device. Depending on the application, the installer may need to make some changes after JumpStart Autoprogramming completes.

See Section 8.1.3 for complete details about running JumpStart.

8.1.1 Input Points

JumpStart Autoprogramming will determine the number and type of input points (detectors or contact monitor modules) on each SLC loop. JumpStart Autoprogramming assigns the correct detector type (heat, ionization or photoelectric), so the installer does not need to edit device type for detectors. Any contact monitor modules on the system will be assigned type "Manual Pull." The installer will need to manually change the switch type if manual pull is not correct.

JumpStart Autoprogramming creates one zone (Zone 1) and assigns all input points to Zone 1. Zone 1 is mapped to Output Group 1. After JumpStart completes, you can re-map to configure a multiple zone/output group system (see Section 9.3.1.3). For a general explanation of mapping, see Section 8.2.

8.1.2 Output Points

JumpStart Autoprogramming creates three output groups and assigns output circuits as follows:

Circuits 1-4:

Configured as Notification and assigned to Group 1. JumpStart automatically programs Zone 1 to activate Group 1 using constant on output when an alarm condition occurs.

Circuit 5 (Relay 1):

Assigned to Group 249. JumpStart automatically programs Zone 1 to activate Group 249 using constant on output when a supervisory condition occurs.

Circuit 6 (Relay 2):

Assigned to Group 250. JumpStart automatically programs Zone 1 to activate Group 250 using constant on output when an alarm occurs.

Addressable output points (Relay modules):

All addressable relay devices will be configured as "Output Pt" (general purpose output point) and assigned to Group 1.

Note: Relay output is constant even if the zone activating the relay is programmed with an output pattern.

8.1.3 Running JumpStart Autoprogramming

Run JumpStart Autoprogramming immediately after you have addressed and connected all input devices (detectors, pull stations, and so on) and output devices (notification appliances, relays, and so on).

Note: If you need to install a few devices after you have run JumpStart, you can install them manually. Follow instructions in Section 9 for configuration.

To run JumpStart Autoprogramming, follow these steps.

- 1. Press ENTER to view the Main Menu.
- 2. From the Main Menu Select 7 for the Program Menu.
- 3. From the next menu, select 6 for JumpStart Autoprogramming.
- 4. When the message, "SLC FAMILY" message appears, select SK or SD; depending on the type of SLC devices the panel is using, and press ENTER to accept.
- 5. A series of messages displays for the next several seconds. JumpStart scans the SLC loops for devices. This can take several minutes, depending on the number of devices attached.
- 6. When the message "Configuring System Done" displays, press any key to continue.
- 7. Select one of the following options from the menu that displays

1 - Review System	Press 1 if you need to review the JumpStart configuration.	
2 - Repeat JumpStart	Press 2 if you need to rerun JumpStart for any reason.	
	If you are ready to make the JumpStart configuration permanent, select 3.	
	 The system will ask you if the installation contains any Addressable Duct Detectors Used. If there are none, select 2 for No and skip to Step 8. If the system contains duct detectors, select 1 for Yes and continue with Step 3. 	
	3. From the list that displays, select the SLC that contains the duct detectors.	
	 The first photoelectric or ionization detector on the system will display. Select 1 for DUCT and 2 for NonDUCT. 	
3 - Accept Config.	Press up arrow to select the next detector. Select 1 for DUCT and 2 for NonDUCT. Continue until all duct detectors have been selected. (Note: You can move backwards through the list with down arrow).	
	6. When you reach the last detector on this device, press left arrow.	
	7. The system will ask you if there are any duct detectors used. If there are, select 1 for Yes and the message will ask, Have All Addressable Duct Detectors Been Identified? Left arrow for "No", Right arrow for "Yes". If there are no more duct detectors, continue with Step 8.	
	The system will restart with the saved JumpStart configuration.	
	After the system resets, it will use the new JumpStart configuration.	
4 - Discard Changes	If you want to discard the changes, and keep the configuration you had before running this JumpStart press 4.	

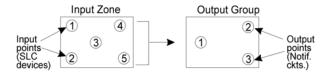
8.2 Mapping Overview

This section of the manual is an overview of mapping. Details about how to select mapping options appear in the appropriate subsections in Section 9.

Mapping is an important concept with the control panel. In general terms, mapping is assigning or linking events to outputs that will activate when events occur. You do this by assigning input points to input zones, output points to output groups and then linking or mapping zones and output groups.

Figure 8-1 is a brief overview of the concept of mapping. The next several pages of the manual show these subjects in detail.

In its simplest application, mapping is determining which outputs are activated by which inputs.



Because the Control Panel programming is so flexible, there are a number of uses for mapping, as shown in the diagram below.

Input zones are mapped by event type to output groups. Cadence patterns are assigned as part of the mapping information. Up to 8 groups/patterns can be selected for each event. **Output Points** Cadence Output Groups Input Points SLC Devices Input Zones Patterns Notif. and Relay Ckts. (Output points are assigned Input points are to output groups only.) Sys Trbl Evts assigned to and Input Zones. Special Sys Evts

Figure 8-1 Mapping Overview

Note: Mapping cannot be programmed through annunciators and can only be programmed through HFSS Honeywell Fire Software Suite.

8.2.1 Input Point Mapping

Input points are assigned to input zones. Any input point can be assigned to any input zone. (Input points can be assigned to one zone only. An input point can be designated as "Unused," which means it has not been assigned to a zone.)

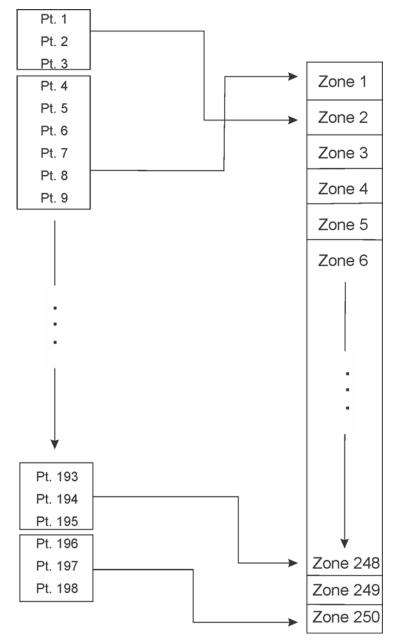


Figure 8-2 Input Point Assignment Example

8.2.2 Output Circuit Mapping

Figure 8-3 is a simple example showing how to assign notification and relay output circuits to groups. For an example of a simple floor above/floor below application, see Figure 8-5.

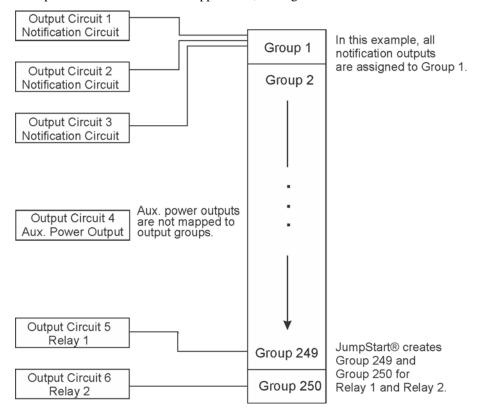


Figure 8-3 Assigning Output Circuits to Groups (Example)

8.2.3 Event Mapping

There are 11 types of Zone events, 14 types of Panel events, and 6 types of Site events that can be mapped (see Table 8-1). For each event type, you can activate the output groups with specific output patterns. Mapping examples are shown in Figure 8-4, Figure 8-5, & Figure 8-6.

Table 8-1: Event Types

System	Zone	Panel	Site
	Manual Pull Alarm	System Aux 1 Alarm	Fire Drill
	Water Flow Alarm	System Aux 2 Alarm	General Fire Alarm
	Detector Alarm (heat or smoke detectors)		General Fire Supervisory
	Zone Aux 1 Alarm		General Fire Pre-Alarm
Fire	Zone Aux 2 Alarm		
证	Interlock Alert		
	Interlock Release		
	Pre-Alarm		
	Fire Supervisory		
	Status Point		
	CO Alarm		
	CO Supervisory		
Emergency			
	Trouble	SBUS Expander Trouble	General Trouble
	Status Point Active	SBUS Class A Trouble	Site Silenced
		SLC Loop Trouble	
_		AC Loss Trouble	F1 Key Active
Advisory		Battery Trouble	F2 Key Active
l vis		Ground Fault Trouble	F3 Key Active
Ac		Phone Line Trouble	F4 Key Active
		Reporting Account Trouble	
		Printer Trouble	
		Aux Power Trouble	
		System Switch Trouble	
		Output Group Trouble	

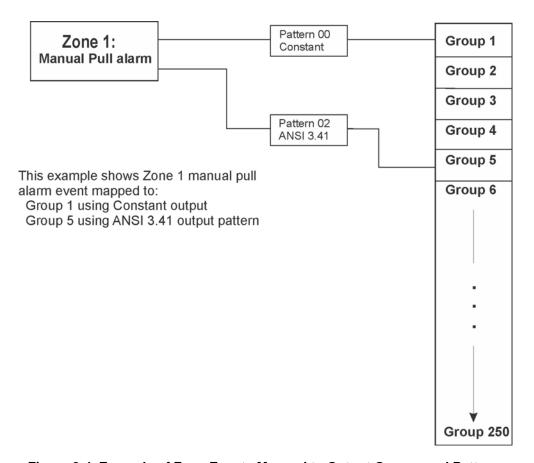


Figure 8-4 Example of Zone Events Mapped to Output Groups and Patterns

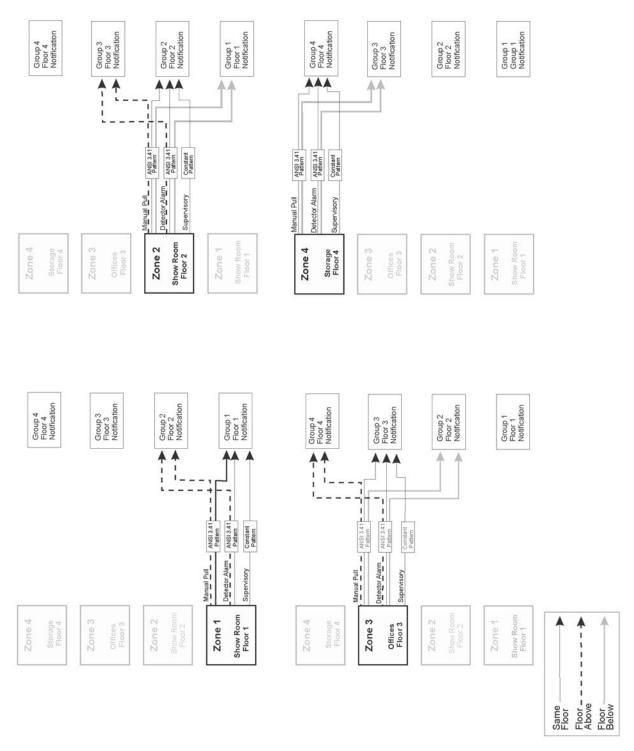


Figure 8-5 Example of Zone Events Mapped to Output Groups and Patterns

8.2.4 Mapping LED Points

Figure 8-6 is a simple example showing how LED points are mapped to zones and output groups. Typically you would create two output groups for each zone, one for alarms and one for troubles. (LED points are available when Models 5865-3/4 and/or 5880 are used with the system.)

Mapping LEDs to Zones and Output Groups

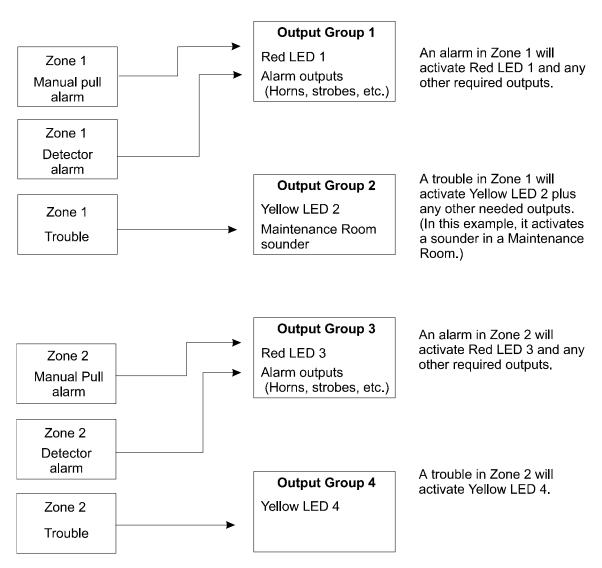


Figure 8-6 Example of LED Points Mapped to Output Groups (applies to Models 5865-3/4 and 5880)

8.3 Programming Using the HFSS Software Suite

You can use the HFSS Honeywell Fire Software Suite to program the control panel onsite (personnel will need to be onsite during the upload or download process). HFSS is a software package that lets you easily program the control panel using a Windows-based computer. HFSS is needed for Mapping. When using HFSS, you can set up the programming options for the panel, save the options in a file, then download the file to the panel. You can connect to the control panel directly using the onboard USB or Ethernet. Updates are available at www.silentknight.com

8.4 Programming Using an Annunciator

You can program the control panel from a system annunciator, using either the control panel's on-board annunciator or a 5860, 6860 & 6855 remote annunciator.

The following subsections describe programming basics, including a description of editing keys available for programming and how to move through programming menus. Section 9 contains specific information about individual programming options.

Note: Mapping cannot be programmed through the on-board and remote annunciators. Mapping is only available through HFSS Honeywell Fire Software Suite, up/downloading software.

8.4.1 Entering / Exiting the Programming Menu

To enter the Programming Menu:

- 1. Enter the Installer Code (factory programmed default code is 123456).
- 2. Then press 7. The menus described in Section 9 of this manual will display. Section 8.5 of this manual is a quick reference listing all programmable options and JumpStart defaults.

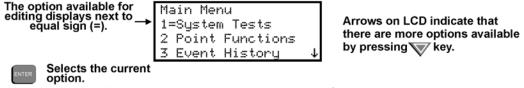
To exit the programming menu:

When you have completed working with the menus, press the left arrow several times until you are exited from programming mode. Two prompts will display. The first prompt is to make sure you intended to leave the Program Menu (select Yes or No as appropriate). The second prompt is for accepting all changes. If you select No, any changes you have made since you entered the Program Menu will have no effect.

8.4.2 Moving through the Menus

Figure 8-7 shows how to move through Program Menu screens, using the System Tests screen as an example.

First line of display identifies the menu.



From the menu item displayed above, (1=System Test) press the down arrow to move through the options. When the equal sign reaches the last item displayed on the screen, the screen will scroll down. Likewise, when the equal sign reaches the first item on the screen, the screen will scroll up.

Figure 8-7 Moving through Program Menu

8.4.3 Selecting Options and Entering Data

There are several ways to make programming selections using the control panel depending on which screen you

are currently using. The chart below is a generic explanation.

То	Press
Select from a menu.	Enter the number of the option.
Enter numeric data.	Press the appropriate number on the annunciator.
Enter text (alphanumeric data).	Enter each character individually using the Up and Down arrow keys until the one you wish to select displays. Then press right arrow to select the character.
Select from a scrolling list.	Use up arrow and down arrow to move through a list of available options. When the option you want to select is displayed, press ENTER.

8.5 Programming Menu Quick Reference

This section of the manual lists all Program Menu options in the order they appear on the sub-menus. Default settings are indicated in text or marked with an asterisk. The comments column provide quick information and a reference to a section (if applicable) which has more detailed information.

Menu		Options/Defaults		Comments
Module	Edit Module	Select Module	Edit Module ID Enter Module Name Edit Module specific options	Section 9.2.1
	Add Module	5824-Serial/ Parallel/IO		
		6860 LCD Annunciator		
		5860 LCD Annunciator		
		6855 LCD Annunciator		
		5895XL Power Supply		Section 9.2.2
		5496 NAC Expander		
		5880-LED / IO Module		
		5865-LED Annun Module		
		SK-NIC Network Interface Card		
	Delete Module	Select Module		Section 9.2.3
	View Module List	Select Module		Section 9.2.4

Section 9.3.1.2 OCK SD devices Section 9.3.1.2 SK Devices
Section 9.3.1.2 Section 9.3.1.2 SD devices Section 9.3.1.2 SK Devices
Section 9.3.1.2 OCK SD devices Section 9.3.1.2 SK Devices
SD devices Section 9.3.1.2 SK Devices
SD devices Section 9.3.1.2 SK Devices
SD devices Section 9.3.1.2 SK Devices
SD devices Section 9.3.1.2 SK Devices
Section 9.3.1.2 SK Devices
_
Section 9.3.1.2
Section 9.3.1.3
Section 9.3.2
Section 9.4.1.1
Section 9.4.1.2
Section 9.4.1.2
See Appendix D
Section 9.4.2
Section 9.4.3
Section 9.5

				SWITCH 1,2,3,4	SYSTEM AUX2 DETECTOR FIRE TAMPER MANUAL RELEA INTERLOCK STATUS POINT CO DETECTOR	SWITCH										
Point (cont.) SK, SD Devices on Internal SLC (cont) Enter Pt				SWITCH ^{1,2,3,4}	INTERLOCK STATUS POINT											
		Select Module ²			DETECTOR SWITCH	NON- LATCH Select	Section 9.5									
													1	4004	OUTPUT PT	Group
			110111	AUX CONST AUX RESET												
				AUX DOOR												
				RELAY ^{1,2,3,4}	OUTPUT PT	Select Group										
			RELAY 1,2,0,4	AUX RESET]										
				AUX DOOR	ı											
			DETECTOR ^{1,2}		Select Zone	e										
			SLC LED ³	LED Output, LED Function	NOTIF Unused											
				W-Gateway ^{1,2,4}												
				W-SWITCH ^{1,2,4}	Same as SWITC	Н										
				W-RELAY ^{1,2,4}	Same as Relay											

Detector Solid Base Detector Detector Solid Base Detector	
Photo Accessory SDR BAS RLY BAS FishBa (Intelligent Sounder Base)	
PHOTO RLY BAS I-SdrBa (Intelligent Sounder Base)	
Point (cont.) SD or SK	
Point (cont.) SD or SK Devices on Internal SLC Enter Pt Select Sensor ² .3	
Sounder Base)	
Point (cont.) SD or SK Devices on Internal SLC Enter Pt Select Sensor ^{2,3} Enter Pt Select Sensor ^{2,3} HEAT HT ^{1,2} Base No Accessory SDR BAS RLY BAS I-SdrBa No Accessory DCT RLY	
Point (cont.) SD or SK Devices on Internal SLC Enter Pt Select Sensor ^{2,3} SD or Sk Enter Pt Select Sensor ^{2,3} HEAT HT ^{1,2} SDR BAS RLY BAS	
Point (cont.) SD or SK Devices on Internal SLC Enter Pt Select Sensor ^{2,3} SD or SK Enter Pt Select Sensor ^{2,3} DETECTOR ^{1,2,1} ACCLIMATE ^{1,2} SDR BAS RLY BAS I-SdrBa No Accessory DCT RLY ACCLIMATE ^{1,2} SDR BAS RLY BAS I-SdrBa No Accessory DCT RLY SDR BAS RLY BAS I-SdrBa RLY BAS	
Point (cont.) SD or SK Devices on Internal SLC Enter Pt Select Sensor ^{2,3} Enter Pt	
Point (cont.) SD or SK Devices on Internal SLC Enter Pt Select Sensor ^{2,3} HEAT HT ^{1,2} ACCLIMATE ^{1,2} SDR BAS I-SdrBa No Accessory DCT RLY ACCLIMATE ^{1,2} SDR BAS I-SdrBa No Accessory DCT RLY I-SdrBa I-	
Point (cont.) SD or SK Devices on Internal SLC Enter Pt Select Sensor ^{2,3} Enter Pt Select	
Point (cont.) SD or SK Devices on Internal SLC Enter Pt Select Sensor ^{2,3} SDR BAS RLY BAS I-SdrBa No Accessory DCT RLY ACCLIMATE 1,2 SDR BAS RLY BAS I-SdrBa No Accessory SDRBAS RLY BAS I-SdrBa RLY BAS I-	
Point (cont.) SD or SK Devices on Internal SLC Enter Pt Select Sensor ^{2,3} HEAT HT ^{1,2} SDR BAS RLY BAS I-SdrBa	
Point (cont.) SD or SK Devices on Internal SLC Enter Pt Select Sensor ^{2,3} Select Sensor ^{2,3} Enter Pt Select Sensor ^{2,3} HEAT HT ^{1,2} SDR base SDR	
Point (cont.) SD or SK Devices on Internal SLC Enter Pt Select Sensor ^{2,3} Select Sensor ^{2,3} Select Sensor ^{2,3} HEAT HT ^{1,2} II-SdrBa No Accessory DCT RLY ACCLIMATE ^{1,2} SDR BAS RLY BAS I-SdrBa No Accessory Section 9.5	
Point (cont.) SD or SK Devices on Internal SLC Enter Pt Select Sensor ^{2,3} Select Sensor ^{2,3} HEAT HT ^{1,2} No Accessory ACCLIMATE 1.2 No Accessory SDR BAS RLY BAS I-SdrBa No Accessory Section 9.5	
Point (cont.) SD or SK Devices on Internal SLC Enter Pt Select Sensor ^{2,3} Select Sensor ^{2,3} ACCLIMATE ^{1,2} ACCESSORY DOT RLY No Accessory SDR BAS RLY BAS I-SdrBa No Accessory SDR BAS RLY BAS I-SdrBa No Accessory SDR BAS RLY BAS I-SdrBa Section 9.5	
Point (cont.) SD or SK Devices on Internal SLC Enter Pt Select Sensor ^{2,3} Select Sensor ^{2,3} ACCLIMATE ^{1,2} No Accessory SDR BAS RLY BAS I-SdrBa No Accessory SDR BAS RLY BAS I-SdrBa No Accessory Section 9.5	
Point (cont.) SD or SK Devices on Internal SLC Enter Pt Select Sensor ^{2,3} Select Sensor ^{2,3} ACCLIMATE ^{1,2} No Accessory SDR BAS RLY BAS I-SdrBa No Accessory Section 9.5	
Point (cont.) SD or SK Devices on Internal SLC Enter Pt Select Sensor ^{2,3} ACCLIMATE ^{1,2} SDR BAS RLY BAS I-SdrBa I-SdrBa No Accessory SDR BAS RLY BAS I-SdrBa No Accessory SDR BAS RLY BAS Section 9.5	
Point (cont.) SD or SK Devices on Internal SLC Enter Pt Select Sensor ^{2,3} ACCLIMATE ^{1,2} ACCESSORY SDR BAS RLY BAS I-SdrBa No Accessory Section 9.5	
Devices on Internal SLC Enter Pt Sensor ^{2,3} ACCLIMATE ^{1,2} SDR BAS RLY BAS I-SdrBa No Accessory Section 9.5	
Internal SLC Sensor ^{2,3} ACCLIMATE ^{1,2} SDR BAS RLY BAS I-SdrBa No Accessory Accessory Section 9.5	
I-SdrBa No Accessory HEAT HT ^{1,2} SDR base	
HEAT HT ^{1,2} SDR base	
HEAT HT ^{1,2} SDR base	
RLY base	
I-SdrBa	
DETECTOR ^{1,2,} No	
Accessory Accessory	
PHOT-HEAT ^{1,2} SDR BAS	
RLY BAS	
I-SdrBa	
BEAM ^{1,2}	
SUP DET ^{1,2,3} LATCH	
Same function as DETECTOR NON-LATCH Latch, Non-Latch	
as DETECTOR Later No	
Accessory	
SDR BAS	
RIY BAS	
CO FIRE 15.7 FIRE ALARM	
I-SdrBA (Intelligent	
(Intelligent Sounder	
Base)	

Select Sensor ^{2,3} Point (cont.) Point (cont.) Point # Point (cont.) Point # Point P	Devices on Internal SLC		Select	CO FIRE ^{1,2,4}	CO ALARM/ FIRE SUPR CO SUPR/ FIRE ALARM	No Accessory SDR BAS RLY BAS I-SdrBA (Intelligent Sounder Base) No Accessory SDR BAS RLY BAS I-SdrBA		
Point # Photo		Devices on					Sounder Base)	Section 9.5
Point # Photo Photo Photo-Heat Heat Point Point Photo-Heat Heat Point							-	
Point #								
W-Detector ^{1,2,4} Photo-Heat Heat W-SUP DET ^{1,2,4} Same as W-Detector UNUSED NOTIF OUTPUT CONTROL CIRCUIT NOTIF OUTPUT Select Group, Supervised Yes or No NOTIF OUTPUT Select Group Supervised Yes or No Section 9.5.2			Point #				(Intelligent Sounder	
Heat W-SUP Same as W-Detector			External		W-Detector ^{1,2,4}	Photo-Heat		
W-SUP DET ^{1,2,4} Same as W-Detector UNUSED B NOTIF OUTPUT CONTROL CIRCUIT Internal Power and External Power A NOTIF OUTPUT Select Group, Supervised Yes or No NOTIF OUTPUT Select Group Supervised Yes or No Select Group Supervised Yes or No Select Group Supervised Yes or No Section 9.5.2								
Internal Power and External Power Power NOTIF	and External							ector
B NOTIF OUTPUT CONTROL CIRCUIT Internal Power and External Power Power A NOTIF OUTPUT Select Gloup, Supervised Yes or No Select Group Super-vised OUTPUT CONTROL CIRCUIT Select Group Super-vised Yes or No Section 9.5.2				UNUSED				_
Internal Power and External Power Power A NOTIF A NOTIF CONTROL CIRCUIT Yes or No Select Group Super-vised Yes or No CONTROL CIRCUIT Select Group Super-vised Yes or No				B NOTIF	OUTPUT		Edit Name	
and External Power A NOTIF A NOTIF OUTPUT Select Gloup Super-vised Yes or No Section 9.5.2					CIRCUIT			
CIRCUIT Yes or No		and External		A NOTIF	OUTPUT		Edit Name	Section 9.5.2
O O VIOTA VIT		Power			CIRCUIT	Yes or No		
CONSTANT								
AUX PWR AUX DOOR Edit Name				AUX PWR		Edit Name		
AUX SYNC ⁵								

		External Point #	MANUAL PULL WATERFLOW FIRE SUPER- VISORY FIRE TAMPER FIRE DRILL SILENCE RESET P.A.S. ACK ZONE AUX 1 ZONE AUX2	Latch and Non-Latch feature only appear for WATERFLOW,FIRE SUPERVISORY, FIRE TAMPER, ZONE AUX1, ZONE AUX2, SYSTEM AUX1,		
Point	Power			SYSTEM AUX1 SYSTEM AUX2 MANUAL RELEASE INTER-LOCK STATUS POINT	SYSTEM AUX2	Section 9.5.2
(cont)		A SWITCH	Same as B SWI	тсн	1	
				2-WIRE SMOKE		
	I	B DETECT	4-WIRE SMOKE	Zone #		
			CO 4 WIRE DET			
			2-WIRE SMOKE	Edit Name		
			A DETECT	4-WIRE SMOKE		
				CO 4 WIRE DET		
			•	UNUSED		
	5880/5865	Enter Point #		NOTIF	NOTIF OUTPUT CONTROL CIRCUIT Select Group Edit Name	Section 9.5.3

			Set the Hour				
		Set the Minutes	*02:00AM				
	Auto Time Test	Select AM/PM		Section 9.6.1	.1		
		Enter Interval	24 hrs,12 hrs, *6 hrs, 4 hrs				
			For each phone line (1 & 2) sele	ect:			
			Dialing Prefix	Up to 9 digits	*none		
			# of Answer Rings	Range: 00-15	*06		
				TT	*TT	-	
			Select Dialing Option	TT/PL		-	
				PULSE			
			D . D . E	U = 60/40	*U		
			Rotary Pulse Format	E = 66/34			
		Phone Lines		Y or N	*N	Section 9.6.1.2	
			Dial Tone Disabled				
				Y or N	*N	1	
			Monitor Line				
					*N		
System Options Communication Options			Answering Machine Bypass	Y or N			
		Phone Line Unused	Y or N	*N			
		IP Address					
	Edit Ethernet	Subn Mask					
		SubNet			0 " 0010		
		Default			Section 9.6.1.3		
		Gateway					
		DHCP Enable					
	AlarmNet Timers	Ethernet Supervise	hernet Supervise 75 sec, 90 Sec, 3 min, 5 min, 1 hr, 24 hrs, 30 days, None				
		Cellular Supervise	24Hrs, 30 days, none	*24 Hours	Section 9.6.1.4		
		Old Alarm Time	10 min, 15 min, 30 Minutes, 1 hr, 2 hrs, 4 hrs, 8 hrs, 12 hrs, 24hrs, none	*30 Minutes			
		Dialing	High Low Normal	*High	Section 9.6.1.5		
	Phone Line Gains	Reporting	Low	*Low			
			reporting	High	- LOW		

		Water Flow Delay	0 - 90 Seconds	*1 sec	Water Flow delay number of secon water flow alarm	ds before a Section 9.6.2.1	
		Alarm Verify	60 to 250 seconds *60 sec		-	Section 9.6.2.2	
		Low AC Report Time	0 - 30 hours	*3 hrs		Section 9.6.2.3	
	Time Options		50 Hz				
		AC Freq:	60 Hz		*60Hz	Section 9.6.2.4	
			Internal		=		
		Clock Display	AM/PM			System Clock Format (AM/PM	
		Format	MIL		*AM/PM	or military). Section 9.6.2.5	
System			4 hours				
Options cont. Miscellaneous	Auto-resound	24 hours		*24 hours	Section 9.6.2.6		
	SYNC Strobes	Υ		*N	Section 9.6.3.1		
	Miscellarieous	when Silenced	N		- IN	Section 9.6.5.1	
		Auto Display	Y N		*N	Section 9.6.3.2	
		Events					
	Daylight Saving	Auto Daylight	Υ		*Y	Section 9.6.4.1	
		Saving Time	N			3660011 9.0.4.1	
	Options	ons DST Start	Select week: 1st, 2nd, 3rd, 4th or Last		Select month	Section 9.6.4.2	
		DST End			Select month		
	Edit Banner	Refer to Appendix B				Section 9.6.5	
	SLC Family	SD				Section 9.6.6	
	OLO I aililly	SK				Section 9.0.0	
Jump	Y (Yes)						
Start AutoPrg	N (No)					Section 9.7	
Restore	Y (Yes)		•			See Section 9.8	
Defaults	N (No)					3.0 Godion 3.0	
*Default							

- 1. Available on SLC Internal.
- 2. Available with SLC Family as SK.
- 3. Available with SLC Family as SD.
- 4. Requires wireless Gateway.
- 5. AUX SYNC setting is only applicable for the B200S Sounder Base.

LS10146-001SK-E Programming

Section 9 Programming

This section of the manual describes how to manually program the control panel from the built-in annunciator. Each subsection discusses these menu options in detail. All options described in this section can be performed using the HFSS Honeywell Fire Software Suite.

Before any customized programming is done, JumpStart should be run first. After Jump-start is run, thoroughly test the system. The reason the system should be tested after JumpStart is because JumpStart automatically programs the system, searching for and configuring all SLC and SBUS devices it finds. Jump-start allows you to confirm the integrity of the installation prior to performing any custom programming. After determining that the hardware is properly installed, custom programming can be performed. Refer to Section 6.

9.1 UL 864 Programming Requirements

NOTICE TO USERS, INSTALLERS, AUTHORITIES HAVING JURISDICTION, AND OTHER INVOLVED PARTIES: This product incorporates field programmable software. In order for the product to comply with the requirements in the Standard for Control Units and Accessories for Fire Alarm Systems, UL 864, certain programming features or options must be limited to specific values or not used at all as indicated below.

Programming Option	Menu Item	Permitted in UL 864 (Y/N)	Possible Settings	Settings Permitted in UL 864
Time Options	Auto-resound	Yes	4 hrs, 24 hrs	4 hours if using SWIFT devices
Time Options	Low AC Report Delay	Yes	0–30 hours	1–3
Display Oldest Event	Y (Enabled)	Yes	Yes & No	Yes
Display Oldest Event	N (Disabled)	No	Yes & No	No
Alarm Verification	Alarm Verification	Yes	60-250 (confirmation period)	60

9.2 Modules

This section lists the options available under the module option in the program menu. The following modules are available for the control panel: 5860, 6860, 6855 LCD annunciators, 5824 serial/parallel printer interface module, 5496 NAC Expander or 5895XL power supply, 5880 LED I/O module, and 5865 LED annunciator, SK-

NIC Network Interface Card.

9.2.1 Edit Modules

The features that can be edited when this option is selected are, module name, and class of wiring (Class A or Class B).

To edit an existing module, follow these steps:

- 1. Enter the installer code.
- 2. Select 7 for Program Menu.
- 3. Press 1 to enter module menu.
- 4. Press 1 to edit a module.
- 5. Use the up or down arrow to select the module you wish to edit.

9.2.1.1 Editing Module ID

6. Press the up or down arrow key to modify the module ID.

Note: Internal devices and the SK-NIC are not able to have their module ID edited.

9.2.1.2 Naming Modules

You can assign an English name to a system hardware module to make it easier to recognize on a display.

7. If you wish to edit the modules name press the up or down arrow to select each character for the modules name (or press the right arrow to bypass name edit).

Press the right arrow to move to the next character.

See Appendix B for editing names.

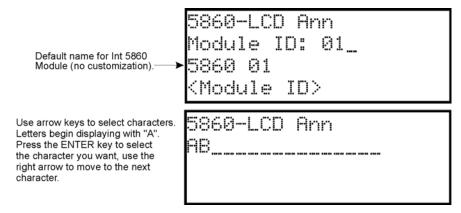


Figure 9-1 Edit module Name Programming Screen Example

9.2.1.3 Changing Module Options

Each module has a unique set of options that specifically applies to the functionality of the module being edited.

- 8. Use the left and right arrow keys to move between available options.
- 9. Option settings are edited by pressing the up or down arrow.

9.2.2 Adding a Module

If you need to add a new hardware module to the system, follow these steps.

You must be in the Main Menu to perform this task. If necessary, enter the Installer Code.

- 1. Enter the installer code.
- 2. Press 7 for Program Menu.
- 3. Press 1 to enter module menu.
- 4. Press 2 to add a module.
- 5. From the next screen, use the up or down arrow to choose a module type to add from the <New Module Type> screen.

The screen will display "Adding module [#]..." for a few moments. You will be returned to the <New Module Type> screen where you can add additional modules if desired.

You must save changes when you exit the Program Menu or the new module will not be added.

Note: If you Add a Module that has not been physically connected, the panel will go into trouble after it reinitializes (when you exit the Program Menu). When the new module is attached, the trouble will correct itself automatically.

9.2.3 Deleting a Module

If you ever need to delete a module, follow these steps.

You must be in the Main Menu to perform this task. If necessary, enter the Installer Code.

- 1. Enter the installer code.
- 2. Press 7 for Program Menu.
- 3. Press 1 to enter module menu.
- 4. Press 3 to delete a module.
- 5. From the next screen, select a module to delete.
- 6. A warning screen will display. If you want to proceed with deleting the module, select Yes. To cancel, select

9.2.4 View Module List

- 1. Enter the installer code.
- 2. Press 7 for Program Menu.
- 3. Press 1 to enter module menu.
- 4. Press 4 to view module list.

9.3 Zone

Through the zone option in the program menu you can edit and view zone points. Selections made here affect all detectors and switches in the zone. Up to 250 zones can be used in the system.

9.3.1 Edit Zone

Features that can be edited through the edit zone option are zone name, zone properties (which includes, zone type, and detector sensitivity), and zone accessory options.

To edit a zone, follow these steps:

- 1. Enter the installer code.
- 2. Press 7 for Program Menu.
- 3. Press 2 to enter zone menu.
- 4. Press 1 to edit a zone.
- 5. Enter the zone number, then press ENTER.

9.3.1.1 Edit Zone Name

6. Press 1 to edit the selected zone name.

You can use words to display a descriptive name for a zone.

Note: See Appendix B for editing names.

9.3.1.2 Edit Zone Properties

Zone properties consist of, alarm delay characteristics, and heat detector sensitivity.

- 1. Do steps 1 through 5 of Section 9.3.1.
- 2. Press 2 to edit the properties of the selected zone.

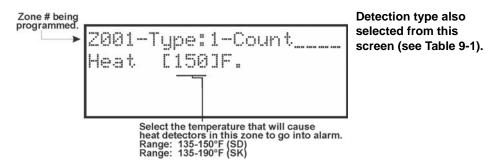


Figure 9-2 Editing Zone Properties

Alarm Delay Characteristics

The programmed zone type is provided for user reference only. To modify the zone type use the HFSS Honeywell Fire Software Suite.

Table 9-1 list the delay choices and a description of each.

Table 9-1: Alarm Delay Characteristics

Type of Delay	Description
1-Count	One Count (No Delay). When this option is enabled, an alarm occurs immediately when a single device of any of the following types goes into alarm: detector, manual pull, water flow, Aux1 or Aux2. This is considered the most typical operation and is the default for all zones.
2-Count	When this type of alarm delay is used, two or more detectors within the zone must go into alarm in order for the zone to report an alarm. Switches of type manual pull, Detector Switches, water flow, Aux1 and Aux2 are an exception; they will cause an alarm when only one switch is in alarm. When a single detector is in alarm in a 2-Count zone, the system enters a prealarm condition. In a prealarm condition, the touchpad PZT beeps and the annunciator display indicates that a prealarm has occurred. If the zone has been mapped to an output group for the prealarm event, the output group will activate. The prealarm will not be reported to the central station.
Alarm Verification	Alarm verification is an optional false alarm prevention feature that verifies an alarm condition by resetting the smoke detector. If the alarm condition still exists by the time the reset cycle has completed, the detector will go into alarm. If the detector is no longer in alarm, no report will go to the central station. The alarm verification sequence is ignored if the zone is already in alarm.
PAS - Positive Alarm Sequence	 This option is intended to be used with an acknowledge switch. An alarm is delayed for 15 seconds, giving on-site personnel a chance to investigate the alarm. If the acknowledge switch is not activated within 15 seconds, an alarm occurs automatically. If this option is enabled for a zone, the zone will respond to an alarm condition as follows: The zone will not go into alarm for 15 seconds to allow an on-site operator to activate the acknowledge switch. If the operator does not press the acknowledge switch within 15 seconds, the zone will go into alarm. If the operator presses the acknowledge switch within 15 seconds, a 180-second time-frame will begin counting down. This time-frame allows the operator to investigate the cause of the alarm. If the operator performs a reset within 180 seconds, the alarm will not occur. If the operator does not perform a reset within 180 seconds, an alarm will occur automatically. The P.A.S. feature will be overridden if another alarm occurs.
	T THE LAND, TEALUTE WILL DE OVETHUUEH II AHUHHEI AIAHH UUUUS.
SNGL II OCK	
SNGL ILOCK DBL ILOCK	See Section 10.6.1 for single interlock releasing operation. See Section 10.6.2 for double interlock releasing operation.

Heat Temperature Setting

Use this feature to set the temperature at which high temperature detectors will respond. All detectors in the zone will respond in the same way. The range for the SD505-HEAT heat detector is from 135°F to 150°F. The range for SK-Heat-HT heat detector is from 135°F to 190°F.

The SD505-HEAT and SK-Heat-HT heat detectors are absolute temperature devices. This means that they respond to an alarm immediately if the temperature in the zone goes above the programmed temperature.

3. Enter the temperature at which the heat detector will respond, or use the Up or Down arrow keys to scroll through the range or enter directly from the number keys on the annunciator, then press ENTER.

4. Use the up or down arrow key to scroll through the range or enter directly from the number keys on the annunciator, then press ENTER.

9.3.1.3 Zone Accessory Options

- 1. Do steps 1 through 5 of Section 9.3.1.
- 2. Press 3 to edit the Zone's Accessory options.

Single or Multi-Station cadence pattern (choose from Patterns 00 to 02, 23 if using SK. Choose from 00-16, 23 if using SD devices). See Appendix D.

CO Single and Multistation Cadence (choose from Cadence Patterns 00 to 02, 23 for SK devices).

Note: The B200S Sounder base provides the recommended CO cadence pattern.

Local Zone (choose Y or N, for Yes or No).

Note: If the SLC protocol is changed from SD to SK series and the cadence is no longer valid for SK, the zone cadence will be set to constant on.

9.3.2 View Zone Points

To view the points in a zone, follow these steps:

- 1. Enter the installer code.
- 2. Select 7 for Program Menu.
- 3. Press 2 to enter zone menu.
- 4. Press 2 to view zone points.
- 5. Enter the number of the zone you wish to view, then press ENTER.

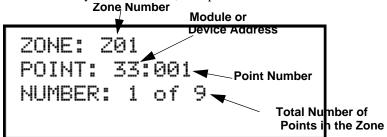


Figure 9-3 View Zone Points Screen

9.4 Group

An output group is made up of output points that have been programmed to respond in the same way. Output groups simplify programming because you have to program the output characteristics that are common to all of the group points once, instead of programming each individual point. Once you have defined the characteristics of output groups, you can assign each point to the appropriate group. All valid output points are assigned to only one output group. Unused points are not assigned to any output group. Up to 250 output groups can be defined.

9.4.1 Edit Group

In the edit group option you can program the name of an output group (Section 9.4.1.1) and change the properties (Section 9.4.1.2) of that group.

To edit a group, follow these steps:

- 1. Enter the installer code.
- 2. Select 7 for Program Menu.
- 3. Press 3 to enter group menu.
- 4. Press 1 to edit group.
- 5. Enter the number of the group you wish to edit, then press ENTER.

9.4.1.1 Edit Group Name

- 6. To edit the group name, press 1.
- 7. To edit the group name, press 1.

You can use words to display a descriptive name for a group.

Note: See Appendix B for editing names.

9.4.1.2 Edit Group Properties

The Edit Group Menu allows you to select options for each group for the following items:

- Template Override: Y or N
- When Template override is Yes. Template Override Cadence is available.
- See Section 9.4.3 for more information.

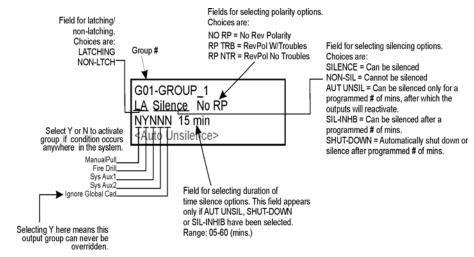


Figure 9-4 Group Properties Screen Programming Options

9.4.2 View Group Points

- 1. Enter the installer code. The panel will automatically go to the main menu.
- 2. Select 7 for Panel Programming.
- 3. Press 3 to enter group menu.
- 4. Press 2 to view group points.

5. Enter the group number, then press ENTER.

GROUP: G01 POINT: 01:001 NUMBER: 1 of 12

9.4.3 Edit OPG Template

- 1. Enter the installer code. The panel will automatically go to the main menu.
- 2. Select 7 for Panel Programming.
- 3. Press 3 to enter group menu.
- 4. Press 3 to edit OPG Template.
- 5. Enter the Template number, then press ENTER
- 6. Press ENTER on the template name to edit the name.

You can use words to display a descriptive name for a group.

Note: See Appendix B for editing names.

7. Right arrow to the OPG and select YES or NO to select which output groups to include in the template.

9.5 Point

You may need to change characteristics of individual input points (detectors and switches) even after using JumpStart[®] Autoprogramming. This section explains how to change options for: type of point, latching/non-latching, silenceable/non-silenceable, zone assignment (input points), detector accessory base options, group assignment (output points), and point name.

9.5.1 Point Programming for SLC

To program points on SLC, follow these steps:

- 1. Enter the installer code. The panel will automatically go to the main menu.
- 2. Select 7 for Panel Programming.
- 3. Press 4 to enter point menu.
- 4. Press the up or down arrow key to select the desired module. Refer to Section 8.6 Quick Reference Table for available choices. Then press ENTER.
- 5. Select S for sensor or M for module. (SK Only)
- 6. Enter the number of the point you wish to edit, then press ENTER.
- 7. Select the type of device by pressing the up or down arrow key. Refer to Table 9-3 under the column heading "Type Selection" for a list of choices

Table 9-2 SLC Point Programming

Type Selection	Function	Latching Option	Comments
UNUSED			
	PHOTO	L	
00 05750700	ION		
SD DETECTOR	HEAT		
	PHOTO DUCT		
	PHOTO		
	ION		
SD SUP DET	HEAT	Latching Non Latching	
	PHOTO DUCT	. Non Latering	
	ION DUCT		
	PHOTO		
	ION		
	HEAT		
	PHOTO DUCT		
SK DETECTOR	ACCLIMATE		
	HEAT HT		
	PHOTO-HEAT		
	BEAM		
	PHOTO		
	PHOTO	Latching	Supervisory can be latching or non-latching.
	ION	Non Latching	
	HEAT		
SK SUP	PHOTO DUCT		
DETECTOR	ACCLIMATE		
	HEAT HT		
	PHOTO-HEAT		
	BEAM		
	ALRM CO/ ALRM FIRE		
CO SMOKE	SUP CO/ ALRM FIRE		
DETECTOR	ALRM CO/ SUP FIRE		
	SUP CO/	Latching	Detectors programmed as Supervisory can be latching or non-
	SUP FIRE	Non Latching	latching.
W-DETECTOR	Photo		Wireless photoelectric detector
	Photo-Heat		Wireless heat detector
	Heat		
W-SUP-DET	Same as W-Detector	_	
		Non Latching	

Table 9-2 SLC Point Programming

Type Selection	Function	Latching Option	Comments
	MAN_PULL		Use this switch type for manual pull stations. This input is always latched. The switch can clear only when an alarm is reset.
SWITCH	WATERFLOW		Use this switch type for monitoring water flow in a sprinkler system. Switch closure will cause a sprinkler alarm. Water flow switches can be programmed as latching or non-latching. You can program a delay of up to 90 seconds to be used with a water flow switch. The delay allows for normal, brief changes in sprinkler system water pressure. The water flow alarm will not activate unless the switch is active for the programmed delay time. Note: Waterflow delay of the FACP and the waterflow device shall not exceed 90 seconds. If a delay is used, the system begins counting down when the
			switch closes. If the switch opens (restores) before the timer expires, a water flow alarm is not generated. If the water flow switch remains closed after the timer expires, a water flow alarm will be generated.
	SUPERVISORY	Non Latching	Use this switch type for tamper monitoring of sprinklers and other fire protection devices. If a contact closes, a sprinkler supervisory event will be generated. Supervisory switches can be latching or non-latching.
	FIRE DRILL		System-level, non latching switch. This switch is an alternative way of causing a fire drill. It has the same operation as the fire drill option available from the annunciator. When the switch is activated, a fire drill begins; when the switch is de-activated, a fire drill ends.
	SILENCE		System-level switch provides an alternate way to silence the system; same effect as pressing the Silence key.
	RESET		System-level switch provides an alternate way to reset the system; same effect as pressing the Reset key.
	PAS_ACK		Positive acknowledge switch. This switch must be used in zones programmed as Positive Alarm Sequence (see Table 9-1). If an acknowledge switch closes when an alarm or trouble condition is not already in progress, a trouble will occur. You must use a UL listed normally open, momentary switch type. The switch must be rated at 5V, 100 mA (minimum) and be used with an EOL resistor for supervision.
	ZN_AUX1	Latching Non Latching	Use these switch types if you want to monitor special zone-level conditions (such as operation of a fan or damper).
	ZN_AUX2	Latching	
		Non Latching	
	SYS_AUX1	Latching	Use these switch types if you want to monitor special system- wide conditions (such as operation of a fan or damper).
		Non Latching Latching	
	SYS_AUX2	Non Latching	-
	DETECT SW	9	Used to monitor conventional 4-wire detectors, a contact closure will generate a detector alarm event.
	TAMPER	Latching Non Latching	Performs identically to a supervisory switch, but will be indicated as a tamper switch on the LCD annunciator.

Table 9-2 SLC Point Programming

Type Selection	Function	Latching Option	Comments
	MAN REL		Manual release switch, typically a pull station.
SWITCH	ILOCK		Interlock release switch input.
	CO DETECT SW		CO Detector Switch
(cont.)	CO SUPERVISORY I	DETECT SW	CO Supervisory Detector Switch
	STATUS PT		Status Point Switch
	OUTPUT PT	Select Group	
	AUX CONST		Use for auxiliary power applications where the devices require constant power.
NOTIF	AUX RESET		Use for auxiliary power, resettable applications. See Section 4.13.2 for a description of how this option operates.
	AUX DOOR		Use for auxiliary power, door holder applications. For example, if you were using an auxiliary power supply for door holders, you would use this option. See Section 4.13.2.1 for a description of how this option operates.
	OUTPUT PT	Select Group	Output Point, a general use relay type. Use for applications requiring a relay, such as fan shutdown, elevator recall, and so on.
RELAY	AUX RESET	Select Group	Use for auxiliary power, resettable applications. See Section 4.13.2.3 for a description of how this option operates.
	AUX DOOR	Select Group	Use for auxiliary power, door holder applications. For example, if you were using an auxiliary power supply for door holders, you would use this option. See Section 4.13.2.1 for a description of how this option operates.
W-GATEWAY			
W-SWITCH	Same as SWITCH		
W-RELAY	Same as RELAY		

9.5.2 Point Programming For Internal or External Power Module

To program for an internal or external power module points, follow these steps:

- 1. Enter the installer code.
- 2. Select 7 for Program Menu.
- 3. Press 4 to enter point menu.
- 4. Press the up or down arrows to select the desired module, then press ENTER. Refer to Section 8.5 for available choices.
- 5. Enter the number of the circuit or point you wish to edit, then press ENTER. Refer to Table 9-3 for available selections.
- 6. Select the type by pressing the up or down arrows, then press ENTER.
- 7. Select the function by pressing the up or down arrows, then press ENTER.
- 8. Select the group by pressing the up or down arrows, then press ENTER.
- 9. Edit point name, or press the right arrow to skip point name edit. See Section 9.5.2.

10. Repeat Steps 1 through 9 for all circuits.

Table 9-3 Menu Choices for Internal/External Power Module

Choices	Type Selections	Function Selections for each Type	Comments
Enter Point or Circuit			
	UNUSED		
NOTIF OUT CTRL CKT	NOTIF OUT	NOTIF OUT	
	CTRL CKT	CTRL CKT	
	AUX_PWR	CONSTANT	Constant auxiliary power.
		AUX RESET	Resettable auxiliary power.
		AUX DOOR	Door holder auxiliary power.
		AUX SYNC	Sounder Sync auxiliary power for System Sensor
		MAN PULL	
		WATERFLOW	
		SUPERVSY	
Select Type		TAMPER	
		FIRE DRILL	
		SILENCE	Refer to comments column of Table 9-2 for description of these options
	D OWNTON IT	RESET	Latch or Non-latching feature only appears
	B SWITCH*	PAS_ACK	for waterflow, supervisory, tamper, zone
		ZN_AUX1	aux1, zone aux2, system aux1, and system aux2
		ZN_AUX2	
		SYS_AUX1	
		SYS_AUX2	
		MAN REL	
		ILOCK	
		STATUS POINT	Non-latching - Used to activate an ancillary Output Group that does not active alarm, sound PZT, display status or report events. Reset has no affect on this point
	A SWITCH*	Same as B SWITCH	
		2-WIRE SMOKE	Used for Class B, 2-wire detectors.
		4-WIRE SMOKE	Used for Class B, 4-wire detectors.
Select Type	A DETECT*	CO 4-WIRE DET	Used for Class B, 4-wire CO detectors.
		CO 4-WIRE SUP DET	Latching or Non-latching used for Class B, 4-wire CO Supervisory detectors
		2-WIRE SMOKE	Used for Class A, 2-wire detectors.
		4-WIRE SMOKE	Used for Class A, 4-wire detectors.
		CO 4-WIRE DET	Used for Class A, 4-wire CO detectors.
		CO 4-WIRE SUP DET	Latching or Non-latching used for Class A, 4-wire CO Supervisory detectors
Select Group			Group or Zone selection will appear depending on the type selected.
Edit Name			See Section 9.5.2.
* Only applicable for 5	895XL	1	

9.5.3 Point Programming For 5880 and 5865 Modules

To program 5880 or 5865 module points

- 1. Enter the installer code.
- 2. Select 7 for Program Menu.
- 3. Press 4 to enter point menu.
- 4. Press the up or down arrows to select the desired module. Refer to Section 8.5 for available choices. Press ENTER.

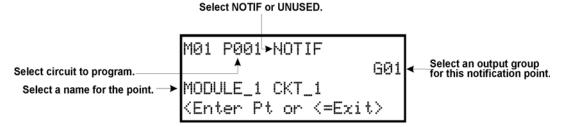


Figure 9-5 Programming Points Screen for 5880 and 5865 Modules

- 5. Enter the point number. Press ENTER.
- 6. Press the up or down arrows to select the type (Notification or unused). Press ENTER.
- 7. Press the up or down arrows to select the desired Group. Press ENTER.
- 8. Edit module name. See Appendix B, or press right arrow to skip point name edit.

9.6 System Options

This section of the manual explains how to customize software options that affect general operation of the system. This includes such items as: Communication Options, Daytime/Nighttime Sensitivity, Holiday Days, Time Options, Miscellaneous Options, Daylight Saving Options, Edit Banner, and SLC Family. Refer to each individual subsection for complete instructions.

9.6.1 Communication Options

9.6.1.1 Auto Test Time

To access the Auto Test Time screen:

- 1. Enter the installer code. The panel will automatically go to the main menu.
- 2. Select 7 for Panel Programming.
- 3. Select 5 for System Options.
- 4. From the next menu, select 1 for Communication Options.
- 5. Select 1 for Auto Test Time.
- 6. Enter the hour you desire the control panel to send an automatic test report (or press the up or down arrow key), then press ENTER.
- 7. Enter the minutes (or press the up or down arrow key), then press ENTER.
- 8. Select AM or PM by pressing the up or down arrow key, then press ENTER.

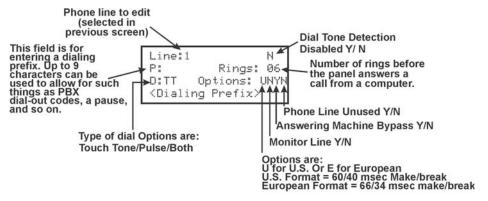
9. Select Report Time Interval by pressing the up or down arrow key, then press ENTER. Time Interval selections are 24hr, 12hr, 6hr and 4 hr.

Note: AM and PM are only available if the panel "Clock Options" are set for AMPM mode. Otherwise the clock is in military time and AMPM is not selectable.

9.6.1.2 Phone Lines

To access the phone lines screen:

- 1. Enter the installer code. The panel will automatically go to the main menu.
- 2. Select 7 for Panel Programming.
- 3. Select 5 for System Options.
- 4. From the next menu, select 1 for Communication Options.
- 5. Select 2 for the phone Lines.
- 6. Select Phone Line to be edited (1 or 2) by pressing the up or down arrow key, then press ENTER.



*Use Y to enable, N to disable, except as noted.

Figure 9-6 Phone Lines Editing Screen

Dialing Prefix

Enter up to 9 characters to be used for such things as PBX dial-out codes, a pause, and so on. The following special characters are available:

#	Pound (or number) key on the telephone
*	Star key on the telephone
,	Comma (character for 2-second pause)

Use the number buttons on the annunciator or the up- and down-arrow keys to select special characters. Special characters begin displaying after "9".

7. Enter a dialing prefix (if needed), then press ENTER. Or Press the right arrow to bypass the dialing prefix option.

Number of Answer Rings

This option is used in conjunction with HFSS Honeywell Fire Software Suite. Use this option to determine the number of rings before the panel answers a call from the computer. Range is 00-15 rings. This option is factory-programmed as 06 rings, which should be compatible for most installations where the answering machine bypass feature is used. You may need to adjust it depending on the installation's telephone system.

The selection made here must match the programming for this option in the Communication Configuration dialog box of HFSS.

8. Enter the desired number of answer rings, then press ENTER.

Dial Option (TouchTone or Pulse, or TT/PL)

9. Press the up or down arrow key to select the dial option, then press ENTER.

Dial Option	Description
PULSE	If this option is selected, only pulse dialing will be used for this phone line.
TT	TouchTone dialing. If this option is selected, only TouchTone dialing will be used for this phone line.
TT/PL	TouchTone alternating with pulse. If this option is selected, the communicator will first attempt to use TouchTone. It will switch to pulse if TouchTone is not successful on the first attempt. It will continue to alternate between TT and pulse for additional attempts.

Dial Format

10. Press the up or down arrow key to select the pulse ratio for rotary dialing option, then press ENTER. Options are:

U	U.S. standard format. Uses the 60 msec / 40 msec make/break ratio.
Е	European format. Uses the 66 msec / 34 msec make/break ratio.

Dial Tone Detection Disabled

11. Select Y (do disable) or N (don't disable) by pressing the up or down arrow key, then press ENTER.

Monitor Line

Enable the line monitor for each phone line that will be used. See Figure 9-6 for location of this field on the phone lines screen. When the phone line monitor has been enabled for a phone line, a trouble condition will occur if the line is not connected. If a phone line will not be used, it must be disabled.

12. Select Y (monitor line) or N (don't monitor line) by pressing the up or down arrow key, then press ENTER.

Answering Machine Bypass

This option is used in conjunction with HFSS Honeywell Fire Software Suite. This feature ensures that an answering machine will not interfere with communication between the panel and the computer. If an answering machine is used at the panel site, enable this feature; if an answering machine is not used, disable the feature. This option is factory-programmed as No (disabled). The selection made here must match the programming for this option in the Communication Configuration dialog box of HFSS.

13. Select Y (answering machine bypass enabled) or N (answering machine bypass disabled) by pressing the up or down arrow key, then press ENTER.

Phone Line Unused

This option is used so that you can set unused phones lines to "Yes", so no auto-test will be sent through that line. This option is factory programmed as No.

14. Select Y or N by pressing the up or down arrow key, then press ENTER.

9.6.1.3 Edit Ethernet

- 1. Enter the installer code. The panel will automatically go to the main menu.
- 2. Select 7 for Panel Programming.

- 3. Select 5 for System Options.
- 4. From the next menu, select 1 for Communication Options.
- 5. Select 3 for Edit Ethernet.

MAC:0000.0020.6894 MAC CRC:01E2 IP:158.100.049.148 <IP Address> More →

Sub:255.255.252.000 GW:158.100.048.254 DHCP:Y <DHCP enable>

Figure 9-7 Edit Ethernet Message

9.6.1.4 AlarmNet Timers

- 1. Enter the installer code. The panel will automatically go to the main menu.
- Select 7 for Panel Programming.
- 3. Select 5 for System Options.
- 4. From the next menu, select 1 for Communication Options.
- 5. Select 4 for AlarmNet Timers.
- 6. The available options for AlarmNet Timers are as follows: *default
 - Ethernet: None, 75 seconds, 90 seconds, 3 minutes, *5 minutes, 1 hour, 24 hours, 30 days.
 - Cellular: None, *24 hours, 30 days
 - Old Alarm: None, 10 minutes, 15 Minutes,*30 Minutes, 1 Hour, 2 Hours, 4 Hours, 6 Hours, 12 Hours, 24 Hours

Ethernet: 5 Minutes_ Cellular: 24 Hours_ Old Alarm: 30 Minutes_ <Ethernet Supervise>

Figure 9-8 AlarmNet Timers

9.6.1.5 Phone Line Gains

- 1. Enter the installer code. The panel will automatically go to the main menu.
- 2. Select 7 for Panel Programming.
- 3. Select 5 for System Options.
- 4. From the next menu, select 1 for Communication Options.
- 5. Select 5 for Phone Line Gains
- 6. The available options:

- Dialing Gain:
 - Low = 9 DB Attenuation
 - Normal = 6 DB Attenuation
 - *High = 3 DB Attenuation
- Reporting Gain:
 - *Low = 9 DB Attenuation
 - Normal = 6 DB Attenuation
 - High = 3 DB Attenuation

9.6.2 Time Options

Through this programming option you can set the water flow delay time, alarm verification time, AC report delay, AC-Frequency, Auto-Resound, and Clock Format.

9.6.2.1 Water Flow Delay

You can program a delay of 0-90 seconds (zero means no delay) to be used in conjunction with a water flow switch. The delay is system-wide. All water flow switches on the system will use the same delay period.

To access the screen for programming water flow delay, follow these steps:

- 1. Enter the installer code.
- 2. Select 7 for Program Menu.
- 3. Select 5 for System Options.
- 4. Press 4 for Time Options.

A screen similar to the one shown in Figure 9-9 will display.

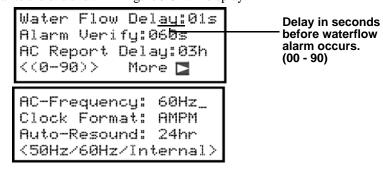


Figure 9-9 Water Flow Delay Programming Screen

5. Enter the number of seconds (0 to 90) to delay an a water flow switch alarm, then press ENTER.

9.6.2.2 Alarm Verify

You can set the alarm verification time from 60 to 250 seconds (default is 60 seconds).

To set the alarm verification:

- 6. Enter the desired number of seconds for the alarm verification time.
- 7. Press the right arrow or ENTER to make your selection and move to the next programming option.

9.6.2.3 AC Report Delay

Note: You must select 1-3 hours in UL central station installations and UL remote signaling installations.

You can adjust the number of hours before a Low AC report will be sent to the central station.

To program low AC report delay, follow these steps:

8. Enter the number of hours (0-30) before a low AC report will be sent to the central station, then press ENTER. Refer to Figure 9-10.

```
Water Flow Delay:01s
Alarm Verify:060s
AC Report Delay:03h
⟨Low AC(0-30h)⟩More

Comparison (00-30)
```

Figure 9-10 Low AC Report Delay Programming Screen

9.6.2.4 Change AC Line Frequency

The panel's AC line frequency is selectable for 50, 60 Hz, or Internal. AC Frequency feature dictates how the control panel will calculate time based on the AC line frequency used in the installation site. The "Internal" option can be used in areas where the AC line frequency is not dependable and you want the panel to calculate time from the internal crystal. The internal crystal is not as accurate as the AC power source and either 60 Hz or 50 Hz should normally be selected. The panel defaults to the 60 Hz. selection

To change the AC line frequency, continue programming from step 8 above:

9. Select 50, 60 or Intl, by pressing the up or down arrow, then press ENTER.

9.6.2.5 Clock Format (AM/PM or Military)

To change the system clock display format, continue programming from step 8 above:

10. Select AMPM (for AM/Pm display format) or MIL (for military or 24 hr display format) by pressing the up or down arrow, then press ENTER.

9.6.2.6 Auto-Resound (4 or 24 hours)

The system resound time period can be modified from the default value 24 hours to 4 hours. This setting adjusts when the FACP will automatically resound events after being silenced. Set this option to 4 hours when using SWIFT devices

9.6.3 Miscellaneous Options

Through this programming option you can turn on or off strobe synchronization during silence, display status at idle (auto display event), report by zone or point, Plexiglas door, and single key ack.

To edit Miscellaneous Options:

- 1. Enter the installer code.
- 2. Select 7 for Program Menu.
- 3. Select 5 for System Options.
- 4. Select 5 for Misc. Options.

9.6.3.1 Synchronize Strobes Active During Silence

When "SYNC Strbs w/ Sil:" is Selected as Y (Yes) then strobes will continue to flash when the system is silenced and will stop flashing when the system is reset.

Note: The "SYNC Strbs w/Sil:" only functions with outputs that use a synchronized output pattern.

- 5. Press the up or down arrow to toggle this selection between Y (Yes) or N (No).
- 6. Press the right arrow or ENTER to make your selection and move to the next programming option.

Note: See Section 9.4 for more information about Synchronization protocol choices.

9.6.3.2 Auto Display Oldest Event

When this feature is programmed Y (Yes) then the oldest un-acknowledge event will automatically display on the control panel and remote annunciators after there has been no activity on any system touchpad for two minutes.

- 7. Press the up or down arrow to toggle this selection between Y (Yes) or N (No).
- 8. Press the right arrow or ENTER to make your selection and move to the next programming option.

9.6.4 Daylight Savings Options

From Daylight Savings, you set the set the start and end week and month of Daylight Saving Time.

To edit Daylight Savings:

- 1. Enter the installer code.
- 2. Select 7 for Program Menu.
- 3. Select 5 for System Options.
- 4. Select 6 for Daylight Savings.

9.6.4.1 Automatic Daylight Saving Time Adjustment

The control panel has an automatic DST (Daylight Saving Time) adjustment feature. If this feature is not enabled (set to *No*), the Daylight Saving Time change is not made to the system clock.

To enable or disable DST adjustment continue programming:

1. Select Y (enabled) or N (disabled) by pressing the up or down arrow, then press ENTER.

9.6.4.2 Daylight Saving Time Start and End

This option lets you to adjust the week and month Daylight Saving Time (DST) starts and ends. For this feature to work, you must enable (set to *Yes*) the Automatic Daylight Savings Adjustment option under Daylight Savings Options. The default values for the DST Start and End are:

DST Start: The second Sunday in March DST End: The first Sunday in November

To set the start and end for Daylight Saving Time:

- 1. Press the up or down arrow to select the week (1st, 2nd, etc.) Daylight Saving Time starts, then press ENTER to make your selection and move to the month setting.
- 2. Press the up or down arrow to select the month (January December) Daylight Saving Time starts, then press ENTER to make your selection and move to the DST End option.
- 3. Press the up or down arrow to select the week (1st, 2nd, etc.) Daylight Saving Time ends, then press ENTER to make your selection and move to the month setting.
- 4. Press the up or down arrow to select the month (January December) Daylight Saving Time ends, then press ENTER two times to make your selection and exit.

9.6.5 Edit Banner

The banner is the message that displays on the panel LCD when the system is normal, that is, when no alarms or troubles exist and no one is currently using system menus. You can create a customized message, which can be up to 40 characters, two lines of 20 characters each.

If you do not create a customized message, the system will use the internal banner. You cannot change the internal banner.

To customize the banner display message:

- 1. Enter the installer code.
- 2. Select 7 for Program Menu.
- 3. Select 5 for System Options.
- 4. Select 7 for Edit Banner.

Note: See Appendix B for instructions on how to edit the banner.

- Select each character of a word by pressing the up or down arrow, then press the right arrow to move to the next character.
- 6. When word or sentence is complete press ENTER to move to line two of the custom banner.

9.6.6 SLC Family

The 6808 supports the use of either SD protocol SLC devices or SK SLC devices. You must configure the 6808 to accept the protocol you are installing.

Note: You cannot mix SK and SD protocol SLC devices on the same panel.

- 1. Select 7 for Program Menu.
- 2. Press 5 for System Options.
- 3. Press 8 for SLC Family.
- 4. Press up to select the desired SLC device type.
- 5. Press ENTER to accept the displayed SLC device type.

Note: When changing SLC type from one protocol to another, the following message will appear:

```
Changing the SLC
family will set all
SLC points to
[Press ☑ for More]

family will set all
SLC points to
UNUSED
◆Back Accept◆
```

Figure 9-11 SLC family change

9.7 JumpStart® Autoprogramming

Panels support an incremental JumpStart.[®] For Example: After initial JumpStart[®] & customization, if you add more devices, when you JumpStart[®] again the additional devices are added but you do not lose any of your

previous custom programming

To run JumpStart®Autoprogramming:

- 1. Enter the installer code.
- 2. Select 7 for Program Menu.
- 3. Select 6 for JumpStart Autoprogramming.
- 4. Press ENTER to accept the warning screen.
- 5. Follow the remaining on screen instructions.
- 6. Press ENTER to confirm.

9.8 Restore Defaults

This option allows you to restore the panel back to factory defaults. All programming will be lost.

- 1. Enter the installer code. The panel will automatically go to the main menu.
- 2. Select 7 for Panel Programming.
- 3. Select 7 for Restore Defaults.
- 4. Press the up or down arrow key to select YES or NO from the warning screen. Then press ENTER.

LS10146-001SK-E System Operation

Section 10 System Operation

Operation of the control panel is simple. Menus guide you step-by-step through operations. This section of the manual is an overview of the operation menus. Please read this entire section carefully before operating the panel.

Press ENTER to view Main Menu: Select the desired menu option. Enter your access code if prompted.

10.1 Default User and Installer Codes

Installer Code (factory-programmed as 123456).

Multi-site Installer Code (factory-programmed as 654321).

10.2 Annunciator Description

Figure 10-1 shows the annunciator that is part of the control panel board assembly.

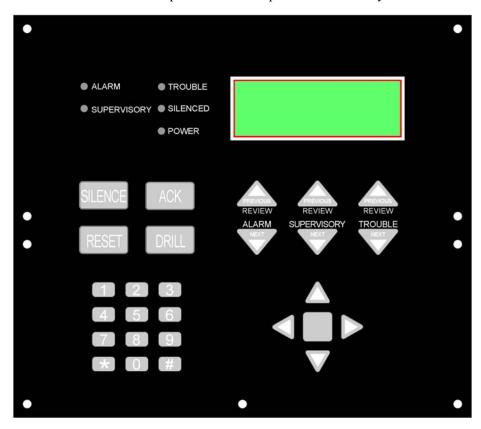


Figure 10-1 Control Panel Annunciator for 6808

10.2.1 LCD Displays

The control panel LCD displays system messages, annunciates alarms, supervisories and troubles; provides status information; and prompts for input. These messages can be up to 80 characters, displaying over four lines

of 20 characters each. Annunciator keys beep when they are pressed.

10.2.2 Banner

The banner is the message that displays on the control panel when the system is in normal mode (no alarm or trouble condition exists and menus are not in use). You can create a customized message that will display instead of the internal (default) message. See Section 9.6.5 for information on customizing the banner.

Text of Internal Banner.

Custom Banner example.



Figure 10-2 Banner Display Examples

10.3 Menu System

The control panel is easy to operate from the Main Menu. To view the Main Menu press the ENTER or right arrow key on the control panel or remote annunciator. The Main Menu will appear as shown in Section 10.3.1. Select the desired option. You will be prompted for as access code if required.

The control panel supports up to 20 access codes. The profile for each access code (or user) can be modified through the network programming option (see Section 6.2.5 for access code programming).

10.3.1 Main Menu Overview

The chart below is a brief overview of the Main Menu. These options are described in greater detail throughout this section of the manual.

Main Menu Options	Description
1 - System Tests	Access to Fire Drill, Indicator Test, Walk Tests, Communicator Test, Clear History Buffer, Manual AlarmNet Registration and Manual Communicator Reset.
2- Point Functions	From here you can enable / disable points.
3 - Event History	Display event history on the LCD. See Section 10.4.3 for more information.
4 - Set Time and Date	Set time and date for the system.
5- Network Diagnostics	Ping Panel and Data Network Status.
6- Network Programming	Access Learn Network, Edit Network Names, Edit Panel ID, Computer Access, Access Codes, Communicator Options, Sync Network Options.
7- Panel Programming	Brings up a set of menus for programming the panel. These options are described in detail in Section 9.
8- System Information	Menus to view information about the panel such as model, ID, serial number, revision, send or receive firmware updates and feature registration activation.

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10.3.2 Using the Menus

To move through the menus:	Use the Up or Down arrow to move through the options in a menu. Use the left arrow to move to a previous menu.
To select an option:	Enter the number of the option, or press ENTER if the option has the = symbol next to it.
Exit Menu	Left arrow

10.4 Basic Operation

10.4.1 Setting Time and Date

- 1. Select 4 for Set Date & Time.
- 2. Make changes in the fields on the screen. Use right arrow to move through the fields. Use the up or down arrow key to select options in the fields.
- 3. When the date and time are correct, press ENTER.

10.4.2 Disable / Enable a Point

- 1. Select 2 for Point Functions.
- 2. Select 1 for Disable/Enable Point.

10.4.2.1 Disable / Enable NACs by Template

- 1. Press 1 for Disable NACs by Template, press 2 to Enable NACs by Template.
- Use the up or down arrow key to move through the list of templates. Press ENTER to select the current template.

10.4.2.2 Disable / Enable NACs by Group

- 1. Press 3 to Disable NACs by Group, press 4 to Enable NACs by Group.
- 2. Use the up or down arrow key to move through the list of groups. Press ENTER to select the group highlighted.

10.4.2.3 Disable / Enable Zone Points

- 1. Press 5 to Disable Zone Points, press 6 to Enable Zone Points.
- 2. Use the up or down arrow key to move through the list of zones. Press ENTER to select the zone highlighted.

10.4.2.4 Disable / Enable Point

- 1. Select 2 for Point Functions.
- Press 7 to Disable /Enable Point.
- 3. Choose Module.
- 4. Use the up or down arrow key to choose point and press ENTER.

5. Press right arrow to disable or enable point.

10.4.2.5 Inhibit Output Group

Inhibiting an output group prevents the group from being utilized by system mapping. While inhibited no event in the system can activate the output group.

- 1. Select 2 for Point Functions.
- 2. Press 8 to inhibit output group.
- 3. Use the up or down arrow key to select the group to be inhibited.
- 4. Press right arrow to inhibit the group.
- 5. Press right arrow again to enable the group.

10.4.3 View Event History

Use the View Event History feature to display events on LCD. From the Main Menu, press 3 to select Event History. Events will begin displaying with most recent events first.

The panel can store up to 1000 events. When it reaches its 1000-event capacity, it will delete the oldest events to make room for the new events as they occur. In networked setups, each panel stores up to 1000 of its own events. When using HFSS Honeywell Fire Software Suite, all 1000 events from every panel in the network will be uploaded.

On multi-site displays, pressing ENTER or right arrow brings you directly into View Event History and allows you to view the Event History from every panel in each of the sites that the multi-site display is assigned to.

10.4.3.1 To clear the event history

From the Installer menu select 1 for System Tests. From the test menu select 6 Clear History Buffer.

10.4.3.2 Single Key Acknowledge

This feature allows the user to press the ACK and display the oldest un-acknowledged event in the system. Pressing ACK again will acknowledge the event, then display the next oldest un-acknowledged event without pressing the arrow keys.

10.4.4 Conduct a Fire Drill

This system test initiates a Fire Drill alarm and activates Fire Drill mapping for 10 minutes or until a user manually exits the fire drill.

- 1. From the Main Menu, press 1 for System Tests.
- 2. Press 1 for Fire Drill. You will be prompted to press ENTER.
- 3. The drill will begin immediately after you press ENTER.
- 4. Press any key to end the drill. (If you do not press any key to end the fire drill manually, it will time out automatically after ten minutes.)

If a fire drill switch has been installed, activating the switch will begin the drill; deactivating the switch will end the drill.

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10.4.5 Conduct an Indicator Test

The indicator test checks the annunciator LEDs, PZT, and LCD display.

- 1. From the Main Menu, press 1 for System Tests.
- Press 2 for Indicator Test. The system turns on each LED several times, beeping the PZT as it does so. At the same time it scrolls each available character across the LCD.
 A problem is indicated if any of the following occurs:
- An LED does not turn on
- You do not hear a beep
- All four lines of the LCD are not full

This test takes approximately 15 seconds to complete. You can press any key to end manually while the test is still in progress. When the test ends, you will be returned to the <Test Menu>.

10.4.6 Conduct a Walk Test

Walk Test is a feature which allows one person to test the fire alarm system. The Walk Test will run for 4 hours or until the user manually exits. If an alarm or pre-alarm condition is occurring in the system, you will not be able to enter the walk test. A walk test may only be initiated if the test is enabled in the user profile.

1. From the Main Menu, press 1 for System Tests.

IMPORTANT!

If any alarm verification zones are being used, the user will be asked if they wish to disable alarm verification during walk test. This occurs for either walk test option.

- 2. Select 3 for Walk Test-No Rpt. Enter the time period you wish the NAC circuit to be active for each alarm (06 to 180 seconds). The LCD will display "WALK TEST STOPPED" on Line 1 and "ENTER = start test" on Line 3. By selecting this option, central station reporting is disabled while the test is in progress.
 - Select 4 for Walk Test-with Rpt. Enter the time period you wish the NAC circuit to be active for each alarm (06 to 180 seconds). The LCD will display "WALK TEST STOPPED" on Line 1 and "ENTER = start test" on Line 3. By selecting this option, central station reporting will occur as normal during the walk test.
 - The panel generates a TEST report to the central station when the walk test begins. During a walk test, the panel's normal fire alarm function is completely disabled, placing the panel in a local trouble condition. All zones respond as 1-Count zones (respond when a single detector is in alarm) during a walk test. Each alarm initiated during the walk test will be reported and stored in the event history buffer.
- 3. To End the Walk test, go to the main menu. Select 1 for System Test, then press 3 or 4. Press ENTER to end the walk test. The system will reset. The panel will send a "TEST RESTORE" report to the central station.

If you do not end the walk test manually within four hours, it will end automatically. If an alarm or pre-alarm condition is occurring in the system, you will not be able to enter the walk test.

Note: The panel does not do a full 30 second reset on resettable power outputs. As soon as the device is back to normal, the panel is ready to go to the next device.

10.4.7 Conduct a Communicator Test

- 1. From the Main Menu, press 1 for System Tests.
- 2. Select 5 for Communicator Test. The screen will display "Manual Communicator Test started". When the test is completed, you will be returned to the <Test Menu>.

3. The Manual communicator test will be communicated out both Phone Lines and Ethernet/Cellular paths if they are all programmed. Each manual communicator test will alternate between one of the Phone Line paths and one of the AlarmNet paths.

10.4.8 Manual AlarmNet Registration

- 1. From the Main Menu, press 1 for System Tests.
- 2. Select 8 for Register AlarmNet. The screen will display and ask for confirmation. Feedback will be given if the command was sent or not.

10.4.9 Silence Alarms or Troubles

Press SILENCE and enter your code or rotate the key at the prompt. If an external silence switch has been installed, activating the switch will silence alarms or troubles. If you are already using system menus when you press SILENCE, you will not need to enter your code or rotate the key.

Note: Alarm and trouble signals that have been silenced but the detector remains un-restored will un-silence every 4 or 24 hours depending on user selection (see section 9.6.2.6) until it is restored.

Note: Multi-Site displays do not allow for silencing multiple sites. Pressing SILENCE will only locally silence the PZT built into the annunciator.

10.4.10 Reset Alarms

Press RESET and enter your code or rotate the key at the prompt. If an external reset switch has been installed, activating the switch will reset alarms. If you are already using system menus when you press RESET, you will not need to enter your code or rotate the key.

Note: Multi-Site displays do not allow for resetting multiple sites.

10.4.10.1 Reset Communicator

This options allows the user to Reset the Communicator. The LCD will display:

"Resetting Communicator... Please Wait"

You will be returned to the Main Menu when the reset is complete.

The communicator is not allowed to be reset when alarms or supervisories are active. Communicator reset is not allowed if any of the following are active:

- Fire Alarm
- Fire Supervisory
- Fire Pre-Alarm
- CO Alarm
- CO Supervisory

10.4.11 Check Detector Sensitivity Through Point Status

The control panel constantly monitors smoke detectors to ensure that sensitivity levels are in compliance with NFPA 72.

If sensitivity for a detector is not in compliance, the panel goes into trouble, generating a CAL TRBLE condition. A detector enters a CAL MAINT state to indicate that it is approaching an out of compliance condition (but is currently still in compliance).

When a CAL TRBLE condition occurs, the central station receives a detector trouble report ("373" and the zone

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or point for Contact ID format; "FT" and the zone or point in SIA format).

To check sensitivity for an individual detector, follow the steps below. Section 8 provides instructions for printing the status of all detectors in the system.

- 1. From the Main Menu, press 2 for Point Functions.
- 2. Press 2 for Point Status.
- 3. Select the module where the point you want to check is located.
- 4. Enter the number of the point you want to check and press ENTER.
- 5. A screen similar to those shown in Figure 10-3 will display.

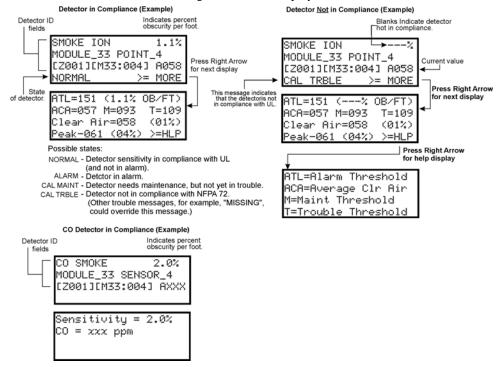


Figure 10-3 Checking Detector Sensitivity Compliance

You can print detector status by uploading the detector status to and printing from HFSS Honeywell Fire Software Suite.

10.4.12 View Status of a Point

- 1. From the Main Menu, select 2 for Point Functions.
- 2. Select 2 for Point Status
- 3. From the list that displays, press ENTER to select the module where this point is located. Next, enter the point to display. The screen that displays will show you if the point has a trouble and will provide sensitivity compliance information. (See Section 10.4.11 for complete information about detector sensitivity compliance.)

10.4.13 View Alarms or Troubles

When the system is in alarm or trouble, you can press down arrow to view the location of an alarm or trouble.

10.4.14 System Information

Press 8 from the Main Menu to view the panel model and serial number and system version number and date. Press the left arrow to return to the main menu.

About Panel

Press 1 to access About Panel to view the panel model, serial number and system version number and date.

Send/Receive firmware updates

The 6808 has the ability to be updated in the field. The latest 6808 Firmware Update Utility can be downloaded from the Silent Knight Web Site, www.silentknight.com. Once a panel has been updated using the Firmware Update Utility, you can use Send/Receive firmware updates to propagate the firmware to the other panels in the network.

- 1. Press 2 to send a firmware update or press 3 to receive a firmware update from the System Information menu. Available panels are listed in the menu.
- 2. Use the up or down arrow key to select a panel to send/receive an update to/from. Press ENTER to start the update process.

Ethernet Info

1. Press 5 from the System Information menu for Ethernet Information.

```
<Ethernet Info>
   MAC:00D0.2D73.489C
   IP:000.000.000.000
   DHCP: Y Next →

<Ethernet Info>
   Sub: 000.000.000.000
   GW: 000.000.000.000
   Hack MAC CRC:0000
```

AlarmNet Info

- 1. Press 6 from the System Information menu for AlarmNet Info
- 2. Cell Strength: 0 to 100%
- 3. Status: Registered/Not Registered

AlarmNet Temporary PIN

Press 7 from the System Information menu for AlarmNet Temporary PIN. This is used in case the FACP is replaced on the CCP.

10.5 Operation Mode Behavior

The control panel can be in one or more of seven conditions at any given moment: Normal, Alarm, Prealarm, Supervisory, Trouble, Silenced, and Reset. Table 10-1 describes the behavior of the panel in each of these modes.

When looking at the LCD, the screen will display FIRE for the "Fire System", CO for the "CO System". The highest priority event will display first and include the event count (see Figure 10-4).

Press the down arrow to view the location and type of alarm, supervisory, or trouble. If the panel is programmed to Auto Display Event, information describing the highest priority active event will display on the first two lines. The 3 and 4th line will show the status of which event types are active for each system (fire and CO). Auto Display Event activates after two minutes of annunciator inactivity.



Figure 10-4 Highest Priority Event Display

```
FIRE: ALRM SUPR TRBL
CO: ALRM
SYS: TRBL
```

Figure 10-5 This Screen will display when more that 3 event types are active

The control panel can be in one of seven conditions at any given moment: Normal, Alarm, Prealarm, Supervisory, Trouble, Silenced, and Reset. Table 10-1describes the behavior of the panel in each of these modes.

Operation Mode	Occurs When	System Behavior	In This Mode You Can
Normal	No alarm, supervisory or trouble con- dition exists and menus are not in use.	SYSTEM POWER LED is on. The All Systems Normal display indicates that the system is in normal mode. Silent Knight Model 6808 ALL SYSTEMS NORMAL 02/04/16 01:45:52PM The current date and time display on the last line of the LCD.	Enter the appropriate code, or rotate the key to activate the Main Menu.

Table 10-1: Operation Mode Behavior

Table 10-1: Operation Mode Behavior

Operation Mode	Occurs When	System Behavior	In This Mode You Can
Alarm	A smoke detector goes into alarm or a pull station is activated. CO detector goes into alarm. If more than 3 categories are active at a single time this screen will display.	The communicator seizes control of the phone line and calls the central station. The on-board annunciator sounds a loud, steady beep (any notification devices attached to the system will also sound). GENERAL ALARM LED flashes. The LCD displays a screen similar to this one. FIRE: ALARM Waterflow Sw Zone_1 Info Pressing right or Info will display the location macro, date time stamp, and site/panel number if applicable. Site 1 CO: ALRM EPress for status Press the down arrow to view the type and location of alarm. (message will alternate with the date/time display). FIRE: ALRM SUPR TRBL CO: ALRM SYS: TRBL	Press the down arrow to view the alarm. A screen similar to this one displays. Module and Point name Pevice type ALARM: MAN_PULL MODULE_33 POINT_2 ZONE_2 Shows which event is currently being displayed. In this example, there are 5 alarms, the third is being displayed. Press SILENCE and enter an access code (or activate the key) to silence the annunciator (and any notification devices attached to the system). When the alarm condition clears, press RESET and enter a code (or activate the key) to restore the panel to normal.

Table 10-1: Operation Mode Behavior

Operation Mode	Occurs When	System Behavior	In This Mode You Can				
Supervisory	The system detects a supervisory condition.	The communicator seizes control of the phone line and calls the central station. The on-board annunciator sounds a loud, pulsing beep in the sequence one second on, one second off. SUPERVISORY LED flashes. The LCD displays a screen similar to this one. FIRE: SUPERVISORY Supervisory Sw SBUS_97 MODULE_2 1 of 1 Info> Pressing right or Info will display the location macro, date time stamp, and site/panel if applicable.	Press down arrow to view the supervisory condition. A screen similar to this one displays. Device type Module and Point name SUPERUSY: MAN_PULL MODULE_33 POINT_2 [Z002] [M33] Shows which event is currently being displayed. Press SILENCE and enter an access code (or activate the key) to silence the annunciator. Once the supervisory condition has been corrected, the system will restore itself automatically.				
	The system detects a supervisory condition with a CO detector. Press the down arrow to view the type and location of Supervisory. (message will alternate with the date/time display).						

Table 10-1: Operation Mode Behavior

Operation Mode	Occurs When	System Behavior	In This Mode You Can
Trouble	A system trouble condition occurs. A trouble condition occurs.	The communicator seizes control of the phone line and calls the central station. The on-board annunciator sounds a loud, pulsing beep in the sequence one second on, nine seconds off. SYSTEM TROUBLE LED flashes. The LCD displays a screen similar to this one. Site 1 FIRE: TRBL Press for status Press the down arrow to view the type and location of trouble condition. (message will alternate with the date/time display). CO = CO Detector Site 1 CO: TRBL Press the down arrow to view the type and location of trouble condition. (message will alternate with the date/time display).	Press down arrow to view the trouble. A screen similar to this one displays. Device type TROUBLE: CO Smoke SBUS_33 Sensor_2 Zone # [Z001] [M33: S002] Module and Point name of this example, the panel does not see a detector that should be on the loop. Press SILENCE and enter an access code (or activate the key) to silence the annunciator. Once the trouble condition has been fixed, the system will restore itself automatically.
Prealarm	A single detector trips in a 2-Count zone. (2-Count means two detectors must trip before an alarm is reported.)	Touchpad PZT beeps. The LCD displays a screen similar to this one. FIRE:PREALARM Det-Photo SBUS_97 SENSOR_33 1 of 1 Info> Pressing right or Info will display the location macro, date time stamp, and site/panel if applicable.	Press the down arrow to view the Prealarm. A screen similar to this one displays. Module and Point name PREALARM: SMOKE-PHOTO MODULE_33 POINT_2 Zone # [2002] Shows which event is currently being displayed. All system operations are available in this mode.
Reset	The RESET button is pressed followed by a valid code or rotation of the key.	All LEDs are on briefly then the LCD displays "RESET IN PROGRESS". If the reset process completes normally, the date and time normal mode screen displays.	Menus are not available during the reset process.

Table 10-1: Operation Mode Behavior

Operation Mode	Occurs When	System Behavior	In This Mode You Can
Silenced	An alarm or trouble condition has been silenced but still exists. To silence alarms and troubles, press SILENCE followed by the Installer or User Code or rotate the key.	SYSTEM SILENCE LED is on. SYSTEM TROUBLE, SUPERVISORY or GENERAL ALARM LED (depending on condition) is on. The annunciator (and any notification devices attached to the system) will be silenced.	Press down arrow to view the location of the alarm or trouble. When the condition no longer exists, the SYSTEM SILENCED and SYSTEM TROUBLE LED, SUPERVISORY or GENERAL ALARM LEDs turn off.

10.5.1 Multi-Site Annunciator and Multi-Site User Access

Multi-site Annunciators are unique as they can display the status and event history of all sites they are assigned to. These displays can be especially useful in guard shacks or security centers. A multi-site display is indicated by the words "Multi-Site Display" at the top of the idle screen.

- The F-Macro key is disabled until a multi-site user access code has been entered and a specific site has been selected.
- 2. Multi-site Annunciator silencing rules:
 - If any new troubles, supervisory, pre-alarms, or alarms are triggered in any assigned sites, Locally Silenced annunciator will resound.
 - If a multi-site annunciator is locally silenced for 4 or 24 hours depending on user selection, the locally silenced annunciator will resound.
- 3. The 6808 menu disabled on a multi-site annunciator. Pressing the Right or Enter keys will bring you straight into event history for assigned sites. To get into the menu system, a multi-site user password must be entered and then a site must be selected from the site selection menu. Once this is done you will have access to the idle screen of that site and the annunciator will temporarily act like a single site annunciator.
- 4. A multi-site annunciator will sound the highest priority tone from the sites it is assigned to.

Note: A multi-site display is created in Module programming in the edit properties menu for an 6860, 5860, 6855 See section 9.2.1.

Victaulic

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10.6 Releasing Operations

The control panel supports two types of releasing: Double Interlock Zone, and Single Interlock Zone. The Double Interlock Zone operation requires an interlock switch input in the system, and the Single Interlock Zone does not. An interlock switch is typically a dry-contact pressure switch.

When Single or Double Interlock Zone releasing is selected using the HFSS Honeywell Fire Software Suite, the software suite will automatically default the following system parameters:

Note: The defaults created can be modified through programming if desired.

- Output Group 2 is created. Output Group 2 will be defaulted as a "Detector Alarm" output group for all releasing zones. NAC [98:001] is assigned to Output Group 2.
- Output Group 3 is created. Output Group 3 will be defaulted as a "Interlock Release Alert" output group for all releasing zones. NAC [98:002] is assigned to Output Group 3.
- Output Group 4 is created. Output Group 4 will be defaulted as "Interlock Release Alarm" output group for all releasing zones. NAC circuit [98:003] is assigned to Output Group 4.

Note: The installer must define which input points will be used for detectors, manual release switches, or interlock/pressure switches.

Note: For manual release operation, Installer must use an FM approved/ UL listed releasing manual station.

Rated Voltage, Rated Current, Manufacturer **Part Number** DC Milliamp T8210A107 24 VDC 700 8210G207 24 VDC 442 HV2740607 24 VDC 375 Asco HV2838521 24 VDC 375 HV2740608 24 VDC 375 701X7028 24 VDC Honeywell/Skinner 917 Barnbrook System EA45 24 VDC 200 890181 24 VDC 2000 486500 24 VDC 290 Kidde Fenwal 895630 24 VDC 2000 897494 24 VDC 1500 88 7363 24 VDC 1040 Minimax 88 5738 24 VDC 1040 88 9323 24 VDC 500 R85M10 24 VDC Nohmi Bosai 1200 70610006 24 VDC 417 Parker Hannifin 10610707 24 VDC 417 2823A-2NB-A4F6 24 VDC 458 Snap-tite 2823A-2NB-A4F5 12 VDC 917 PA0036-A TLX 24 VDC 600 Versa Valves CGS-4232-NB3-S2 24 VDC 438 753E 24 VDC 364

Table 10-2: Approved Releasing Solenoids

24 VDC

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Table 10-2: Approved Releasing Solenoids

Manufacturer	Part Number	Rated Voltage, DC	Rated Current, Milliamp	
	11591	24 VDC	417	
Viking	11595	24 VDC	417	
Viking	11592NC	24 VDC	416	
	16360	24 VDC	500	

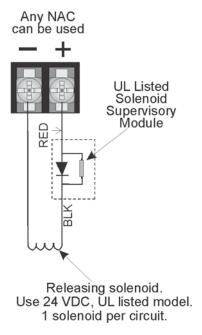


Figure 10-6 Wiring Configuration for Solenoid

Important!

Detectors must be installed at 0.7 times the linear spacing as described in NFPA 72, Chapter 2.

10.6.1 Single Interlock Zone Releasing

A single interlock zone utilizes a minimum of two addressable detectors, and a designated manual release switch.

Important!
Only addressable detectors can be used. No conventional detectors can be used.
Each Single Interlock Zone input requires at least one manual release switch.

Conditions Required for an Pre-Alert Output Activation

If any single addressable detector is activated, the "Pre-Alert" output will activate. This alerts the user that the initial stages required for a release condition are present. (Also refer to Table 10-3.)

Conditions required for an General Alarm and Release Output Activation

If two or more addressable detectors, or a manual release switch activate, the "Alarm" and the "Release" outputs will activate and the "Pre-Alarm" output will deactivate. (Also refer to Table 10-3.)

Table 10-3: Single Interlock Zone Operation

Inputs	Output Results							
1st Addressable Detector		X		X		X		X
2nd Addressable Detector			Х	Х			Х	Х
Manual Release Station					Х	Х	Х	Х
	Normal	Pre-Alert	Pre-Alert	Release and General Alarm				

Reduce detector spacing to 0.7 times the linear spacing in accordance with NFPA 72.

Note: Refer to Table 10-2 for approved releasing solenoids and ratings.

10.6.2 Double Interlock Zone Releasing

A Double Interlock Zone uses a minimum of two Addressable detectors, a designated manual release switch, and an interlock switch input. An interlock switch is typically a dry-contact pressure switch and will be referred to as an interlock/pressure switch in this document.

Important!
Only addressable detectors can be used. No conventional detectors can be used.
Each Single Interlock Zone input requires at least one manual release switch.
Each Double Interlock Zone input requires at least one Interlock/pressure switch

Conditions Required for a Pre-Alert Output Activation

If any single addressable detector is activated, the "Pre-Alert" output will activate. This alerts the user that the initial stages required for a release condition are present. (Also refer to Table 10-3.)

Conditions Required for a General Alarm Output Activation

If two addressable detectors, a manual release switch is activated, or an interlock switch is active, the "Pre-Alert", and "General Alarm" outputs will activate.

Conditions Required for a Release Output Activation

Any release requires the activation of an interlock switch, and either a manual release switch or 2 activated addressable detectors. When these conditions are met, the "Release" and "General Alarm" outputs will activate, and the "Alert" outputs will deactivate.

Inputs **Output Results** 1st Addressable Detector Χ Χ Χ Χ Χ 2nd Addressable Detector Χ **Manual Release Station** X X X X X X X Interlock/Pressure Switch Alarm Alarm Alarm Alarm Alarm and General Alarm Pre-Alert and General Alarm Alarm Pre-Alert and General Alarm Release and General Alarm Alar General General General General General General General and General General **Pre-Alert Pre-Alert** and and and **Pre-Alert and Pre-Alert and** Pre-Alert **Pre-Alert Pre-Alert**

Table 10-4: Double Interlock Zone Operation

Reduce detector spacing to 0.7 times the linear spacing in accordance with NFPA 72.

Note: Refer to Table 10-2 for approved releasing solenoids and ratings.

10.7 Smoke Alarm Verification

Figure 10-7 illustrates how the Smoke Alarm Verification cycle operates.

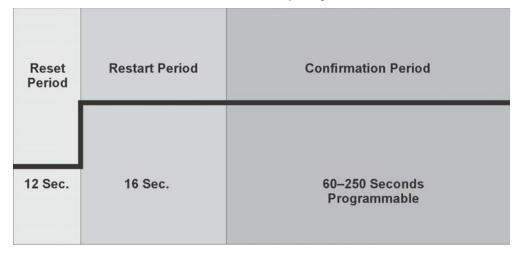


Figure 10-7 Smoke Verification Cycle

During the Confirmation Period if there is no alarm indication then the system will return to normal operation.

10.8 Function Keys

The function keys (on 6860 only) have multiple features. Their macro key functionality can simplify the disabling, activating, or inhibiting points or groups respectively. They can also be used as a status type activation event and for activating Map Inhibit. Each F-Key macro can hold 50 events.

To access the F-Key Recording menu:

- 1. From the idle screen, press and hold the F-Key for 5 seconds.
- 2. Enter a PIN with F-Key macro recording privileges, if prompted.

10.8.1 Recording an F-Key Macro

- 1. Access the F-Key Recording menu and select the 'Start F-KEY Recording' option.
- 2. The panel will return to the idle screen. Notice the 4th line on the display now alternates with <F# Key Recording>, where # is the number of the F-Key being recorded.
- 3. Any Disabling or Activating of points, output groups, or templates from the site at this point will be programmed into the macro. Do this by going to any annunciator within the site and entering Main Menu -> Point Functions and use Disable/Enable Point or use I/O Point Control to: disable output groups or individual points, or activate individual points.
- 4. Once you are finished with disabling or activating points/output groups, enter the F-Key Recording Menu again and select the 'End F-KEY Recording' option.
- 5. The panel will return to the idle screen.

10.8.2 Aborting an F-Key Macro Recording Session

1. After an F-Key macro recording session has been started, the session can be canceled at any time by accessing the F-Key Recording menu and selecting 'Abort FKEY Recording' option.

2. The panel will return to the idle screen.

10.8.3 Erasing an F-Key Macro

- 1. If an F-Key macro has already been recorded, you can erase it by accessing the F-Key Recording menu and selecting the 'Erase F-KEY Macro' option.
- 2. The panel will return to the idle screen.

10.8.4 Using a Recorded F-Key Macro

- 1. From the idle screen on any annunciator in the site, press the F-Key you want to activate.
- 2. Once finished, to de-activate the macro press the F-Key again.

10.8.5 F-Key Status Event

When an F-Key is enabled, it activates its corresponding F-Key Active event. This is a status type event that can activate outputs without showing any status on annunciator displays. This should be used for ancillary purposes only.

10.8.6 F-Key Map Inhibit

The F-Keys have the ability to disable event - output group mapping for the purpose of simulating that the map doesn't exist. This can be setup to allow for testing purposes where notification of an entire building is not desired during the test. This option is programmable for each output group map through HFSS Honeywell Fire Software Suite.

When an F-Key is active and a map in the system is set to be disable by Map Inhibit, the system will show a trouble event indicating it as such.

Section 11 Reporting

This section lists receivers that are compatible with this control panel, and the reporting codes sent by the control panel for SIA and Contact ID formats.

11.1 Receivers Compatible with the Control Panel

Table 11-1 shows receivers compatible with the control panel.

Table 11-1: Receivers Compatible with the Control Panel

Manufacturer	Model	Format
Honeywell	Model 9800	SIA and Contact ID
	Model 9000 (SIA formats)	SIA
Honeywell Security	AlarmNet 7810-ir	IP and Cellular Receiver, Contact ID only
Ademco	MX8000	SIA and Contact ID
Ademco	Model 685 (Contact ID)	Contact ID
Sur-Gard	SG-MLR2-DG (V. 1.64 or higher)	SIA and Contact ID
Osborne Hoffman	Quickalert	SIA and Contact ID

Table 11-2: Reporting Formats Table

		Reporting Fo	rmat	Contact ID Reporting Format				
	SIA pi Modifier			SIA				
Event Description Module ID # (If Event Codes Codes) Module ID # (If Event Codes)		Fixed Length Format NN - panel ID XX- SBUS ID ZZZ- Zone # PPPP- Point # GGG- Group # E- Emergency # RRRR-Receiver #	Qualifier	Event Code	Group #	Contact #		
System Events			n Events ne is selec	are reported w	hen eith	er "Rep	ort by Poi	nt" or
AC power low trouble		AT	0	ATNN000000	1	301	00	000
AC power low trouble restore		AR	0	ARNN000000	3	301	00	000
Auto dialer test communications trouble line 1		YC	1	YCNN00001	1	350	Receiver #	001
Auto dialer test communications trouble line 1 restore		YK	1	YKNN000001	3	350	Receiver #	001
Auto dialer test communications trouble line 2		YC	2	YCNN000002	1	350	Receiver #	002
Auto dialer test communications trouble line 2 restore		YK	2	YKNN000002	3	350	Receiver #	002
Automatic test normal		RP	0	RPNN000000	1	602	00	000

Table 11-2: Reporting Formats Table

		Reporting Fo	rmat	Contact ID Reporting Format				
	S	IA pi Mod	ifier	SIA				
Event Description	Module ID # (If Any)	SIA Event Codes	Parameter	Fixed Length Format NN - panel ID XX- SBUS ID ZZZ- Zone # PPPP- Point # GGG- Group # E- Emergency # RRRR-Receiver #	Qualifier	Event Code	Group #	Contact #
Automatic test off normal		RY	0	RYNN000000	1	608	00	000
Battery voltage trouble		ΥT	Exp. ID	YTNNXX0000	1	302	Exp. ID	000
Battery voltage trouble restore		YR	Exp. ID	YRNNXX0000	3	302	Exp. ID	000
Date changed event	1	JD	0	JDNN000000	1	625	00	000
ECS Reset		OR	1	ORNN00001	1	401	00	001
Emergency System Overridden		QS	0	QSNN000000	1	244	00	000
Emergency System Overridden Restore		QR	0	QRNN000000	3	244	00	000
Fire drill has begun		FI	0	FINN000000	1	604	00	000
Fire drill has ended		FK	0	FKNN000000	3	604	00	000
F1 Mapping Inhibited		FT	2001	FTNN002001	1	570	00	001
F1 Mapping Inhibited Restoral		FJ	2001	FJNN002001	3	570	00	001
F2 Mapping Inhibited		FT	2002	FTNN002002	1	570	00	002
F2 Mapping Inhibited Restoral		FJ	2002	FJNN002002	3	570	00	002
F3 Mapping Inhibited		FT	2003	FTNN002003	1	570	00	003
F3 Mapping Inhibited Restoral		FJ	2003	FJNN002003	3	570	00	003
F4 Mapping Inhibited		FT	2004	FTNN002004	1	570	00	004
F4 Mapping Inhibited Restoral		FJ	2004	FJNN002004	3	570	00	004
Fire Reset		OR	0	ORNN000000	1	401	00	000
Fire System Overridden		FS	0	FSNN000000	1	245	00	000
Fire System Override Restore		FR	0	FRNN000000	3	245	00	000
Ground fault condition trouble		YP	Exp. ID	YPNNXX0000	1	310	Exp. ID	000
Ground fault condition trouble restore		YQ	Exp. ID	YQNNXX0000	3	310	Exp. ID	000
Initial power up		RR	0	RRNN000000	1	305	00	000
Local programming aborted or ended with errors		LU	0	LUNN000000	1	628	00	000
Local programming begin		LB	0	LBNN000000	1	627	00	000
Local programming ended normally		LS	0	LSNN000000	1	628	00	000
Network node trouble (panel missing)		EM	Panel ID	EMNNNN0000	1	334	Panel ID	000
Network node trouble restore (panel no longer missing)		EN	Panel ID	ENNNNN0000	3	334	Panel ID	000
OPG Inhibit Trouble		FT	Group # + 1000	FTNN001GGG	1	320	00	Group #

Table 11-2: Reporting Formats Table

		SIA	Reporting Fo	rmat	Contact ID Reporting Format			
	SI	A pi Modi	ifier	SIA				
Event Description	Module ID # (If Any)	SIA Event Codes	Parameter	Fixed Length Format NN - panel ID XX- SBUS ID ZZZ- Zone # PPPP- Point # GGG- Group # E- Emergency # RRRR-Receiver #	Qualifier	Event Code	Group #	Contact #
OPG Inhibit Trouble Restore		FJ	Group # + 1000	FJNN001GGG	3	320	00	Group #
OPG Inhibit of Releasing Group		SS	Group # + 1000	SSNN001GGG	1	203	00	Group #
OPG Inhibit of Releasing Group Restore		SR	Group # + 1000	SRNN001GGG	3	203	00	Group #
Phone line 1 trouble detected		LT	1	LTNN000001	1	351	00	000
Phone line 1 trouble restore		LR	1	LRNN000001	3	351	00	000
Phone line 2 trouble detected		LT	2	LTNN000002	1	352	00	000
Phone line 2 trouble restore		LR	2	LRNN000002	3	352	00	000
Printer is off-line trouble		VZ	Exp. ID	VZNNXX0000	1	336	Exp. ID	000
Printer is off-line trouble restore		VY	Exp. ID	VYNNXX0000	3	336	Exp. ID	000
Printer is out of paper trouble		VO	Exp. ID	VONNXX0000	1	335	Exp. ID	000
Printer is out of paper trouble restore		VI	Exp. ID	VINNXX0000	3	335	Exp. ID	000
Releasing Notif/Control Circuit Disabled	pi Exp. ID	SS	Point #	SSNNXXPPPP	1	203	Exp. ID	Point #
Releasing Notif/Control Circuit enabled	pi Exp. ID	SR	Point #	SRNNXXPPPP	3	203	Exp. ID	Point #
Remote programming aborted or ended with errors		RU	0	RUNN000000	1	413	00	000
Remote programming ended nor- mally		RS	0	RSNN000000	1	412	00	000
Repeater ground fault trouble		EM	0103	EMNN000103	1	334	Panel ID	103
Repeater ground fault trouble restore		EN	0103	ENNN000103	3	334	Panel ID	103
Repeater missing trouble		EM	0100	EMNN000100	1	334	Panel ID	100
Repeater missing trouble restore		EN	0100	ENNN000100	3	334	Panel ID	100
Repeater Rx1 communication trouble		EM	0101	EMNN000101	1	334	Panel ID	101
Repeater Rx1 communication trouble restore		EN	0101	ENNN000101	3	334	Panel ID	101
Repeater Rx2 communication trouble		EM	0102	EMNN000102	1	334	Panel ID	102
Repeater Rx2 communication trouble restore		EN	0102	ENNN000102	3	334	Panel ID	102
SBUS Class A supervision lost		ET	Exp. ID	ETNNXX0000	1	333	Exp. ID	000
SBUS Class A supervision restore		ER	Exp. ID	ERNNXX0000	3	333	Exp. ID	000

Table 11-2: Reporting Formats Table

		SIA	Reporting Fo	rmat	Contact ID Reporting Format			
	s	IA pi Mod	ifier	SIA				
Event Description	Module ID # (If Any)	SIA Event Codes	Parameter	Fixed Length Format NN - panel ID XX- SBUS ID ZZZ- Zone # PPPP- Point # GGG- Group # E- Emergency # RRRR-Receiver #	Qualifier	Event Code	Group #	Contact #
SBUS expander trouble		ET	Exp. ID	ETNNXX0000	1	333	Exp. ID	000
SBUS expander trouble restore		ER	Exp. ID	ERNNXX0000	3	333	Exp. ID	000
SLC class A supervision trouble		ET	Exp. ID	ETNNXX0000	1	331	Exp. ID	000
SLC class A supervision trouble restore		ER	Exp. ID	ERNNXX0000	3	331	Exp. ID	000
SLC programming ended, system active		TE	0	TENN000000	3	607	00	000
SLC programming started, system shut down		TS	0	TSNN000000	1	607	00	000
SLC short circuit trouble		ET	Exp. ID	ETNNXX0000	1	332	Exp. ID	000
SLC short circuit trouble restore		ER	Exp. ID	ERNNXX0000	3	332	Exp. ID	000
Time changed event		JT	0	JTNN000000	1	625	00	000
Unable to report to account trouble		RT	Receiver #	RTNN00RRRR	1	354	00	Receiver #
Unable to report to account trouble restore		YK	Receiver #	YKNN00RRRR	3	354	00	Receiver #
User access code changed		JV	0	JVNN000000	1	602	00	000
User initiated manual dialer test		RX	0	RXNN000000	1	601	00	000
Walk test begin		TS	0	TSNN000000	1	607	00	000
Walk test end		TE	0	TENN000000	3	607	00	000
Zone Events	Note:	Zone ev	ents are repo	orted only when "Re	port by Zor	e" is sele	cted	
Auxiliary power trouble		FT	0000	FTNN000000	1	320	00	000
Auxiliary power trouble restore		FJ	0000	FJNN000000	3	320	00	000
CO Detector Alarm		GA	Zone #	GANN000ZZZ	1	162	00	Zone #
CO Detector Alarm Restore		GH	Zone #	GHNN000ZZZ	3	162	00	Zone #
CO Detector Supervisory Alarm		GS	Zone #	GSNN000ZZZ	1	200	00	Zone #
CO Detector Supervisory Alarm Restore		GR	Zone #	GRNN000ZZZ	3	200	00	Zone #
CO Detector Trouble		GT	Zone #	GTNN000ZZZ	1	373	00	Zone #
CO Detector Trouble Restore		GJ	Zone #	GJNN000ZZZ	3	373	00	Zone #
Detector Alarm		FA	Zone #	FANN000ZZZ	1	110	00	Zone #
Detector Alarm Restore		FH	Zone #	FHNN000ZZZ	3	110	00	Zone #
Detector trouble		FT	Zone #	FTNN000ZZZ	1	373	00	Zone #
Detector trouble restore		FJ	Zone #	FJNN000ZZZ	3	373	00	Zone #
ECS Switch Trouble		QT	0	QTNN000000	1	242	00	000
ECS Switch Trouble Restore		QJ	0	QJNN000000	3	242	00	000

Table 11-2: Reporting Formats Table

		SIA	Reporting Fo	rmat	Contact ID Reporting Format			
	S	IA pi Mod	ifier	SIA				
Event Description	Module ID # (If Any)	SIA Event Codes	Parameter	Fixed Length Format NN - panel ID XX- SBUS ID ZZZ- Zone # PPPP- Point # GGG- Group # E- Emergency # RRRR-Receiver #	Qualifier	Event Code	Group #	Contact #
ECS Supervisory/Tamper Alarm		QS	0	QSNN000000	1	241	00	000
ECS Supervisory/Tamper Alarm Restore		QR	0	QRNN000000	3	241	00	000
ECS Output Group Trouble		QT	Group # +1000	QTNN001GGG	1	320	00	Group #
ECS Output Group Trouble Restore		QJ	Group # +1000	QJNN001GGG	3	320	00	Group #
External Reset/Silence/Fire Drill switch trouble		UT	0000	UTNN000000	1	373	00	000
External Reset/Silence/Fire Drill switch trouble restore		UJ	0000	UJNN000000	3	373	00	000
LOC Mic Activated ECS Alarm		QA	0	QANN000000	1	220	00	000
LOC Mic Activated ECS Alarm Restore		QH	0	QHNN000000	3	220	00	000
LOC/Point ECS # Alarm		QA	Emergen- cy #	QANN0E0000	1	220 + Emer- gency #	00	000
LOC/Point ECS # Alarm Restore		QH	Emergen- cy #	QHNN0E0000	3	220 + Emer- gency #	00	000
Manual pull switch alarm		FA	Zone #	FANN000ZZZ	1	115	00	Zone #
Manual pull switch alarm restore		FH	Zone #	FHNN000ZZZ	3	115	00	Zone #
Manual pull switch trouble		FT	Zone #	FTNN000ZZZ	1	373	00	Zone #
Manual pull switch trouble restore		FJ	Zone #	FJNN000ZZZ	3	373	00	Zone #
Notification output trouble		FT	Group # + 1000	FTNN001GGG	1	320	00	Group #
Notification output trouble restore		FJ	Group # + 1000	FJNN001GGG	3	320	00	Group #
Positive Alarm Sequence ac- knowledge switch trouble		FT	Zone #	FTNN000ZZZ	1	373	00	Zone #
Positive Alarm Sequence ac- knowledge switch trouble restore		FJ	Zone #	FJNN000ZZZ	3	373	00	Zone #
SLC LED Module trouble		ET	0000	ETNN000000	1	333	00	000
SLC LED Module trouble restore		ER	0000	ERNN000000	3	333	00	000
Status Point Types Trouble		UT	0	UTNN000000	1	379	00	000
Status Point Types Trouble Restore		UJ	0	UJNN000000	3	379	00	000
Supervisory Detector Alarm		FS	Zone #	FSNN000ZZZ	1	200	00	Zone #

Table 11-2: Reporting Formats Table

		SIA	Reporting Fo	rmat	С	ontact ID	Reporting Fo	rmat
	SI	A pi Modi	ifier	SIA				
Event Description	Module ID # (If Any)	SIA Event Codes	Parameter	Fixed Length Format NN - panel ID XX- SBUS ID ZZZ- Zone # PPPP- Point # GGG- Group # E- Emergency # RRRR-Receiver #	Qualifier	Event Code	Group #	Contact #
Supervisory Detector Alarm Restore		FR	Zone #	FRNN000ZZZ	3	200	00	Zone #
Supervisory/Tamper Alarm		FS	Zone #	FSNN000ZZZ	1	200	00	Zone #
Supervisory/Tamper alarm condition restore		FR	Zone #	FRNN000ZZZ	3	200	00	Zone #
Supervisory/Tamper switch trouble		FT	Zone #	FTNN000ZZZ	1	373	00	Zone #
Supervisory/Tamper switch trouble restore		FJ	Zone #	FJNN000ZZZ	3	373	00	Zone #
System-based AUX1 switch alarm		UA	1000	UANN001000	1	140	01	000
System-based AUX1 switch alarm restore		UH	1000	UHNN001000	3	140	01	000
System-based AUX1 switch trouble		UT	1000	UTNN001000	1	373	01	000
System-based AUX1 switch trouble restore		UJ	1000	UJNN001000	3	373	01	000
System-based AUX2 switch alarm		UA	2000	UANN002000	1	140	02	000
System-based AUX2 switch alarm restore		UH	2000	UHNN002000	3	140	02	000
System-based AUX2 switch trouble		UT	2000	UTNN002000	1	373	02	000
System-based AUX2 switch trouble restore		UJ	2000	UJNN002000	3	373	02	000
Voice Aux ECS 1 Alarm		UA	3	UANN003000	1	171	00	000
Voice Aux ECS 1 Alarm Restore		UH	3	UHNN003000	3	171	00	000
Voice Aux ECS 2 Alarm		UA	4	UANN004000	1	172	00	000
Voice Aux ECS 2 Alarm Restore		UH	4	UHNN004000	3	172	00	000
Voice Aux ECS 3 Alarm		UA	5	UANN005000	1	173	00	000
Voice Aux ECS 3 Alarm Restore		UH	5	UHNN005000	3	173	00	000
Voice Aux ECS 4 Alarm		UA	6	UANN006000	1	174	00	000
Voice Aux ECS 4 Alarm Restore		UH	6	UHNN006000	3	174	00	000
Water flow switch alarm		SA	Zone #	SANN000ZZZ	1	113	00	Zone #
Water flow switch alarm Restore		SH	Zone #	SHNN000ZZZ	3	113	00	Zone #
Water flow switch trouble		ST	Zone #	STNN000ZZZ	1	373	00	Zone #
Water flow switch trouble Restore		SJ	Zone #	SJNN000ZZZ	3	373	00	Zone #

Table 11-2: Reporting Formats Table

		SIA	Reporting Fo	rmat	С	ontact ID	Reporting Fo	rmat
	SI	A pi Mod	ifier	SIA				
Event Description	Module ID # (If Any)	SIA Event Codes	Parameter	Fixed Length Format NN - panel ID XX- SBUS ID ZZZ- Zone # PPPP- Point # GGG- Group # E- Emergency # RRRR-Receiver #	Qualifier	Event Code	Group #	Contact #
Zone-based AUX1 switch alarm		UA	Zone # + 1000	UANN001ZZZ	1	140	01	Zone #
Zone-based AUX1 switch alarm restore		UH	Zone # + 1000	UHNN001ZZZ	3	140	01	Zone #
Zone-based AUX1 switch trouble		UT	Zone # + 1000	UTNN001ZZZ	1	373	01	Zone #
Zone-based AUX1 switch trouble restore		UJ	Zone # + 1000	UJNN001ZZZ	3	373	01	Zone #
Zone-based AUX2 switch alarm		UA	Zone # + 2000	UANN002ZZZ	1	140	02	Zone #
Zone-based AUX2 switch alarm restore		UH	Zone # + 2000	UHNN002ZZZ	3	140	02	Zone #
Zone-based AUX2 switch trouble		UT	Zone # + 2000	UTNN002ZZZ	1	373	02	Zone #
Zone-based AUX2 switch trouble restore		UJ	Zone # + 2000	UJNN002ZZZ	3	373	02	Zone #
Point Events		e used s		only when "Report are reported as Pnt				
An unexpected SLC device has been detected	pi Exp. ID	XE	Point #	XENNXXPPPP	1	380	Exp. ID	Point #
An unexpected SLC device has been removed	pi Exp. ID	XI	Point #	XINNXXPPPP	3	380	Exp. ID	Point #
Auxiliary power disabled	pi Exp. ID	FB	Point #	FBNNXXPPPP	1	571	Exp. ID	Point #
Auxiliary power enabled	pi Exp. ID	FU	Point #	FUNNXXPPPP	3	571	Exp. ID	Point #
Auxiliary power Trouble	pi Exp. ID	FT	Point #	FTNNXXPPPP	1	320	Exp. ID	Point #
Auxiliary power trouble restore	pi Exp. ID	FJ	Point #	FJNNXXPPPP	3	320	Exp. ID	Point #
Background Music Switch is Trouble	pi Exp. ID	UT	Point #	UTNNXXPPPP	1	379	Exp. ID	Point #
Background Music Switch is								I ont
Trouble Restored	pi Exp. ID	UJ	Point #	UJNNXXPPPP	3	379	Exp. ID	Point #
	pi Exp. ID	UJ	Point #	UJNNXXPPPP UBNNXXPPPP	1	379 580	Exp. ID	
Trouble Restored Background Music Switch is								Point #
Trouble Restored Background Music Switch is Disabled Background Music Switch is	pi Exp. ID	UB	Point #	UBNNXXPPPP	1	580	Exp. ID	Point #
Trouble Restored Background Music Switch is Disabled Background Music Switch is Enabled	pi Exp. ID	UB UU	Point #	UBNNXXPPPP UUNNXXPPPP	3	580 580	Exp. ID	Point # Point #
Trouble Restored Background Music Switch is Disabled Background Music Switch is Enabled CO Detector Trouble	pi Exp. ID pi Exp. ID pi Exp. ID	UB UU GT	Point # Point #	UBNNXXPPPP UUNNXXPPPP GTNNXXPPPP	1 3	580 580 373	Exp. ID Exp. ID	Point # Point # Point #

Table 11-2: Reporting Formats Table

		SIA	Reporting Fo	rmat	С	ontact ID R	eporting Fo	rmat
	SI	A pi Mod	ifier	SIA				
Event Description	Module ID # (If Any)	SIA Event Codes	Parameter	Fixed Length Format NN - panel ID XX- SBUS ID ZZZ- Zone # PPPP- Point # GGG- Group # E- Emergency # RRRR-Receiver #	Qualifier	Event Code	Group #	Contact #
Detector Alarm	pi Exp. ID	FA	Point #	FANNXXPPPP	1	110	Exp. ID	Point #
Detector Alarm restore	pi Exp. ID	FH	Point #	FHNNXXPPPP	3	110	Exp. ID	Point #
Detector Disabled	pi Exp. ID	FB	Point #	FBNNXXPPPP	1	571	Exp. ID	Point #
Detector Enabled	pi Exp. ID	FU	Point #	FUNNXXPPPP	3	571	Exp. ID	Point #
Detector Trouble	pi Exp. ID	FT	Point #	FTNNXXPPPP	1	373	Exp. ID	Point #
Detector Trouble restore	pi Exp. ID	FJ	Point #	FJNNXXPPPP	3	373	Exp. ID	Point #
Detector CO Alarm	pi Exp. ID	GA	Point #	GANNXXPPPP	1	162	Exp. ID	Point #
Detector CO Alarm Restore	pi Exp. ID	GH	Point #	GHNNXXPPPP	3	162	Exp. ID	Point #
Detector CO Supervisory Alarm	pi Exp. ID	GS	Point #	GSNNXXPPPP	1	200	Exp. ID	Point #
Detector CO Supervisory Alarm Restore	pi Exp. ID	GR	Point #	GRNNXXPPPP	3	200	Exp. ID	Point #
ECS Alarm # Point Alarm	pi Exp. ID	QA	(EPPP) E - Emergen- cy # PPP - Point #	QANNXXEPPP	1	220 + Emer- gency #	Exp. ID	Point #
ECS Alarm # Point Alarm Restore	pi Exp. ID	QH	(EPPP) E - Emergen- cy # PPP - Point #	QHNNXXEPPP	3	220 + Emer- gency #	Exp. ID	Point #
ECS Alarm # Point Trouble	pi Exp. ID	QT	Point #	QTNNXXPPPP	1	242	Exp. ID	Point #
ECS Alarm # Point Trouble Restore	pi Exp. ID	QJ	Point #	QJNNXXPPPP	3	242	Exp. ID	Point #
ECS Alarm # Point Disabled	pi Exp. ID	QB	Point #	QBNNXXPPPP	1	243	Exp. ID	Point #
ECS Alarm # Point Enabled	pi Exp. ID	QU	Point #	QUNNXXPPPP	3	243	Exp. ID	Point #
ECS Supervisory/Tamper Alarm	pi Exp. ID	QS	Point #	QSNNXXPPPP	1	241	Exp. ID	Point #
ECS Supervisory/Tamper Alarm Restore	pi Exp. ID	QR	Point #	QRNNXXPPPP	3	241	Exp. ID	Point #
ECS Supervisory/Tamper Trouble	pi Exp. ID	QT	Point #	QTNNXXPPPP	1	242	Exp. ID	Point #
ECS Supervisory/Tamper Trouble Restore	pi Exp. ID	QJ	Point #	QJNNXXPPPP	3	242	Exp. ID	Point #
ECS Supervisory/Tamper Disabled	pi Exp. ID	QB	Point #	QBNNXXPPPP	1	243	Exp. ID	Point #
ECS Supervisory/Tamper Enabled	pi Exp. ID	QU	Point #	QUNNXXPPPP	3	243	Exp. ID	Point #
ECS NAC Trouble	pi Exp. ID	QT	Point #	QTNNXXPPPP	1	320	Exp. ID	Point #

Table 11-2: Reporting Formats Table

		SIA	Reporting Fo	rmat	С	ontact ID R	eporting Fo	rmat
	SI	A pi Modi	ifier	SIA				
Event Description	Module ID # (If Any)	SIA Event Codes	Parameter	Fixed Length Format NN - panel ID XX- SBUS ID ZZZ- Zone # PPPP- Point # GGG- Group # E- Emergency # RRRR-Receiver #	Qualifier	Event Code	Group #	Contact #
ECS NAC Trouble Restored	pi Exp. ID	QJ	Point #	QJNNXXPPPP	3	320	Exp. ID	Point #
ECS Control Circuit Trouble	pi Exp. ID	QT	Point #	QTNNXXPPPP	1	320	Exp. ID	Point #
ECS Control Circuit Trouble Restored	pi Exp. ID	QJ	Point #	QJNNXXPPPP	3	320	Exp. ID	Point #
ECS Relay Trouble	pi Exp. ID	QT	Point #	QTNNXXPPPP	1	320	Exp. ID	Point #
ECS Relay Trouble Restored	pi Exp. ID	QJ	Point #	QJNNXXPPPP	3	320	Exp. ID	Point #
ECS Notification Trouble	pi Exp. ID	QT	Point #	QTNNXXPPPP	1	320	Exp. ID	Point #
ECS Notification Trouble Restored	pi Exp. ID	QJ	Point #	QJNNXXPPPP	3	320	Exp. ID	Point #
External Reset/Silence/Fire Drill switch disabled	pi Exp. ID	UB	Point #	UBNNXXPPPP	1	571	Exp. ID	Point #
External Reset/Silence/Fire Drill switch enabled	pi Exp. ID	UU	Point #	UUNNXXPPPP	3	571	Exp. ID	Point #
External Reset/Silence/Fire Drill switch trouble	pi Exp. ID	UT	Point #	UTNNXXPPPP	1	373	Exp. ID	Point #
External Reset/Silence/Fire Drill switch trouble restore	pi Exp. ID	UJ	Point #	UJNNXXPPPP	3	373	Exp. ID	Point #
Interlock switch alarm (Water Release Zone)	pi Exp. ID	FA	Point #	FANNXXPPPP	1	110	Exp. ID	Point #
Interlock switch alarm restore (Water Release Zone)	pi Exp. ID	FH	Point #	FHNNXXPPPP	3	110	Exp. ID	Point #
Interlock switch disabled	pi Exp. ID	FB	Point #	FBNNXXPPPP	1	571	Exp. ID	Point #
Interlock switch enabled	pi Exp. ID	FU	Point #	FUNNXXPPPP	3	571	Exp. ID	Point #
Interlock switch trouble (Water Release Zone)	pi Exp. ID	FT	Point #	FTNNXXPPPP	1	373	Exp. ID	Point #
Interlock switch trouble restore (Water Release Zone)	pi Exp. ID	FJ	Point #	FJNNXXPPPP	3	373	Exp. ID	Point #
LOC Mic Activated ECS Alarm	pi Exp. ID	QA	0	QANNXX0000	1	220	Exp. ID	000
LOC Mic Activated ECS Alarm Restore	pi Exp. ID	QH	0	QHNNXX0000	3	220	Exp. ID	000
LOC ECS # Alarm	pi Exp. ID	QA	Emergen- cy #	QANNXXE000	1	220 + Emer- gency #	Exp. ID	000
LOC ECS # Alarm Restore	pi Exp. ID	QH	Emergen- cy #	QHNNXXE000	3	220 + Emer- gency #	Exp. ID	000
Manual pull switch alarm	pi Exp. ID	FA	Point #	FANNXXPPPP	1	115	Exp. ID	Point #
Manual pull switch alarm restore	pi Exp. ID	FH	Point #	FHNNXXPPPP	3	115	Exp. ID	Point #
Manual pull switch disabled	pi Exp. ID	FB	Point #	FBNNXXPPPP	1	571	Exp. ID	Point #

Table 11-2: Reporting Formats Table

		SIA	Reporting Fo	rmat	С	ontact ID	Reporting Fo	rmat
	SI	A pi Modi	ifier	SIA				
Event Description	Module ID # (If Any)	SIA Event Codes	Parameter	Fixed Length Format NN - panel ID XX- SBUS ID ZZZ- Zone # PPPP- Point # GGG- Group # E- Emergency # RRRR-Receiver #	Qualifier	Event Code	Group #	Contact #
Manual pull switch enabled	pi Exp. ID	FU	Point #	FUNNXXPPPP	3	571	Exp. ID	Point #
Manual pull switch trouble	pi Exp. ID	FT	Point #	FTNNXXPPPP	1	373	Exp. ID	Point #
Manual pull switch trouble restore	pi Exp. ID	FJ	Point #	FJNNXXPPPP	3	373	Exp. ID	Point #
Manual release switch alarm (Water Release Zone)	pi Exp. ID	FA	Point #	FANNXXPPPP	1	110	Exp. ID	Point #
Manual release switch alarm restore (Water Release Zone)	pi Exp. ID	FH	Point #	FHNNXXPPPP	3	110	Exp. ID	Point #
Manual release switch disabled	pi Exp. ID	FB	Point #	FBNNXXPPPP	1	571	Exp. ID	Point #
Manual release switch enabled	pi Exp. ID	FU	Point #	FUNNXXPPPP	3	571	Exp. ID	Point #
Manual release switch trouble (Water Release Zone)	pi Exp. ID	FT	Point #	FTNNXXPPPP	1	373	Exp. ID	Point #
Manual release switch trouble restore (Water Release Zone)	pi Exp. ID	FJ	Point #	FJNNXXPPPP	3	373	Exp. ID	Point #
Notification output point disabled	pi Exp. ID	FB	Point #	FBNNXXPPPP	1	571	Exp. ID	Point #
Notification output point enabled	pi Exp. ID	FU	Point #	FUNNXXPPPP	3	571	Exp. ID	Point #
Notification output point trouble	pi Exp. ID	FT	Point #	FTNNXXPPPP	1	320	Exp. ID	Point #
Notification output point trouble restore	pi Exp. ID	FJ	Point #	FJNNXXPPPP	3	320	Exp. ID	Point #
Positive Alarm Sequence ac- knowledge switch disabled	pi Exp. ID	FB	Point #	FBNNXXPPPP	1	571	Exp. ID	Point #
Positive Alarm Sequence ac- knowledge switch enabled	pi Exp. ID	FU	Point #	FUNNXXPPPP	3	571	Exp. ID	Point #
Positive Alarm Sequence ac- knowledge switch trouble	pi Exp. ID	FT	Point #	FTNNXXPPPP	1	373	Exp. ID	Point #
Positive Alarm Sequence ac- knowledge switch trouble restore	pi Exp. ID	FJ	Point #	FJNNXXPPPP	3	373	Exp. ID	Point #
Status Point Trouble	pi Exp. ID	UT	Point #	UTNNXXPPPP	1	379	Exp. ID	Point #
Status Point Trouble Restored	pi Exp. ID	UJ	Point #	UJNNXXPPPP	3	379	Exp. ID	Point #
Status Point is Disabled	pi Exp. ID	UB	Point #	UBNNXXPPPP	1	580	Exp. ID	Point #
Status Point is Enabled	pi Exp. ID	UU	Point #	UUNNXXPPPP	3	580	Exp. ID	Point #
Supervisory/Tamper Alarm	pi Exp. ID	FS	Point #	FSNNXXPPPP	1	200	Exp. ID	Point #
Supervisory/Tamper Alarm Restore	pi Exp. ID	FR	Point #	FRNNXXPPPP	3	200	Exp. ID	Point #
Supervisory/Tamper point disabled	pi Exp. ID	FB	Point #	FBNNXXPPPP	1	571	Exp. ID	Point #
Supervisory/Tamper point enabled	pi Exp. ID	FU	Point #	FUNNXXPPPP	3	571	Exp. ID	Point #
Supervisory/Tamper point trouble	pi Exp. ID	FT	Point #	FTNNXXPPPP	1	373	Exp. ID	Point #

Table 11-2: Reporting Formats Table

		SIA	Reporting Fo	rmat	С	ontact ID	Reporting Fo	rmat
	SI	A pi Mod	ifier	SIA	-			
Event Description	Module ID # (If Any)	SIA Event Codes	Parameter	Fixed Length Format NN - panel ID XX- SBUS ID ZZZ- Zone # PPPP- Point # GGG- Group # E- Emergency # RRRR-Receiver #	Qualifier	Event Code	Group #	Contact #
Supervisory/Tamper point trouble restore	pi Exp. ID	FJ	Point #	FJNNXXPPPP	3	373	Exp. ID	Point #
System-based AUX1 switch alarm	pi Exp. ID	UA	Point #	UANNXXPPPP	1	140	Exp. ID	Point #
System-based AUX1 switch alarm restore	pi Exp. ID	UH	Point #	UHNNXXPPPP	3	140	Exp. ID	Point #
System-based AUX1 switch disabled	pi Exp. ID	UB	Point #	UBNNXXPPPP	1	571	Exp. ID	Point #
System-based AUX1 switch enabled	pi Exp. ID	UU	Point #	UUNNXXPPPP	3	571	Exp. ID	Point #
System-based AUX1 switch trouble	pi Exp. ID	UT	Point #	UTNNXXPPPP	1	373	Exp. ID	Point #
System-based AUX1 switch trouble restore	pi Exp. ID	UJ	Point #	UJNNXXPPPP	3	373	Exp. ID	Point #
System-based AUX2 switch alarm	pi Exp. ID	UA	Point #	UANNXXPPPP	1	140	Exp. ID	Point #
System-based AUX2 switch alarm restore	pi Exp. ID	UH	Point #	UHNNXXPPPP	3	140	Exp. ID	Point #
System-based AUX2 switch disabled	pi Exp. ID	UB	Point #	UBNNXXPPPP	1	571	Exp. ID	Point #
System-based AUX2 switch enabled	pi Exp. ID	UU	Point #	UUNNXXPPPP	3	571	Exp. ID	Point #
System-based AUX2 switch trouble	pi Exp. ID	UT	Point #	UTNNXXPPPP	1	373	Exp. ID	Point #
System-based AUX2 switch trouble restore	pi Exp. ID	UJ	Point #	UJNNXXPPPP	3	373	Exp. ID	Point #
Voice Aux ECS 1 Point Alarm	pi Exp. ID	UA	(3PPP) PPP - Point #	UANNXX3PPP	1	171	Exp. ID	Point #
Voice Aux ECS 1 Point Alarm Restore	pi Exp. ID	UH	(3PPP) PPP - Point #	UHNNXX3PPP	3	171	Exp. ID	Point #
Voice Aux ECS 2 Point Alarm	pi Exp. ID	UA	(4PPP) PPP - Point #	UANNXX4PPP	1	172	Exp. ID	Point #
Voice Aux ECS 2 Point Alarm Restore	pi Exp. ID	UH	(4PPP) PPP - Point #	UHNNXX4PPP	3	172	Exp. ID	Point #
Voice Aux ECS 3 Point Alarm	pi Exp. ID	UA	(5PPP) PPP - Point #	UANNXX5PPP	1	173	Exp. ID	Point #

Table 11-2: Reporting Formats Table

		SIA	Reporting Fo	rmat	Contact ID Reporting Format			
	SI	A pi Modi	ifier	SIA				
Event Description	Module ID # (If Any)	SIA Event Codes	Parameter	Fixed Length Format NN - panel ID XX- SBUS ID ZZZ- Zone # PPPP- Point # GGG- Group # E- Emergency # RRRR-Receiver #	Qualifier	Event Code	Group #	Contact #
Voice Aux ECS 3 Point Alarm Restore	pi Exp. ID	UH	(5PPP) PPP - Point #	UHNNXX5PPP	3	173	Exp. ID	Point #
Voice Aux ECS 4 Point Alarm	pi Exp. ID	UA	(6PPP) PPP - Point #	UANNXX6PPP	1	174	Exp. ID	Point #
Voice Aux ECS 4 Point Alarm Restore	pi Exp. ID	UH	(6PPP) PPP - Point #	UHNNXX6PPP	3	174	Exp. ID	Point #
Voice Aux ECS Point Trouble	pi Exp. ID	UT	Point #	UTNNXXPPPP	1	379	Exp. ID	Point #
Voice Aux ECS Point Trouble Restore	pi Exp. ID	UJ	Point #	UJNNXXPPPP	3	379	Exp. ID	Point #
Voice Aux ECS Point Disabled	pi Exp. ID	UB	Point #	UBNNXXPPPP	1	580	Exp. ID	Point #
Voice Aux ECS Point Enabled	pi Exp. ID	UU	Point #	UUNNXXPPPP	3	580	Exp. ID	Point #
Voice Aux Status 1 Switch is Trouble	pi Exp. ID	UT	Point #	UTNNXXPPPP	1	379	Exp. ID	Point #
Voice Aux Status 1 Switch is Trouble Restored	pi Exp. ID	UJ	Point #	UJNNXXPPPP	3	379	Exp. ID	Point #
Voice Aux Status 1 Switch is Disabled	pi Exp. ID	UB	Point #	UBNXXPPPP	1	580	Exp. ID	Point #
Voice Aux Status 1 Switch is Enabled	pi Exp. ID	UU	Point #	UUNXXPPPP	3	580	Exp. ID	Point #
Voice Aux Status 2 Switch is Trouble	pi Exp. ID	UT	Point #	UTNNXXPPPP	1	379	Exp. ID	Point #
Voice Aux Status 2 Switch is Trouble Restored	pi Exp. ID	UJ	Point #	UJNNXXPPPP	3	379	Exp. ID	Point #
Voice Aux Status 2 Switch is Disabled	pi Exp. ID	UB	Point #	UBNNXXPPPP	1	580	Exp. ID	Point #
Voice Aux Status 2 Switch is Enabled	pi Exp. ID	UU	Point #	UUNNXXPPPP	3	580	Exp. ID	Point #
Water flow switch alarm	pi Exp. ID	SA	Point #	SANNXXPPPP	1	113	Exp. ID	Point #
Water flow switch alarm restore	pi Exp. ID	SH	Point #	SHNNXXPPPP	3	113	Exp. ID	Point #
Water flow switch disabled	pi Exp. ID	SB	Point #	SBNNXXPPPP	1	571	Exp. ID	Point #
Water flow switch enabled	pi Exp. ID	SU	Point #	SUNNXXPPPP	3	571	Exp. ID	Point #
Water flow switch trouble	pi Exp. ID	ST	Point #	STNNXXPPPP	1	373	Exp. ID	Point #
Water flow switch trouble restore	pi Exp. ID	SJ	Point #	SJNNXXPPPP	3	373	Exp. ID	Point #
Zone-based AUX1 switch alarm Zone-based AUX1 switch alarm restore	pi Exp. ID pi Exp. ID	UA	Point #	UANNXXPPPP UHNNXXPPPP	3	140 140	Exp. ID	Point #

Table 11-2: Reporting Formats Table

		SIA	Reporting Fo	rmat	С	ontact ID	Reporting Fo	rmat
	SI	A pi Modi	ifier	SIA				
Event Description	Module ID # (If Any)	SIA Event Codes	Parameter	Fixed Length Format NN - panel ID XX- SBUS ID ZZZ- Zone # PPPP- Point # GGG- Group # E- Emergency # RRRR-Receiver #	Qualifier	Event Code	Group #	Contact #
Zone-based AUX1 switch disabled	pi Exp. ID	UB	Point #	UBNNXXPPPP	1	571	Exp. ID	Point #
Zone-based AUX1 switch enabled	pi Exp. ID	UU	Point #	UUNNXXPPPP	3	571	Exp. ID	Point #
Zone-based AUX1 switch trouble	pi Exp. ID	UT	Point #	UTNNXXPPPP	1	373	Exp. ID	Point #
Zone-based AUX1 switch trouble restore	pi Exp. ID	UJ	Point #	UJNNXXPPPP	3	373	Exp. ID	Point #
Zone-based AUX2 switch alarm	pi Exp. ID	UA	Point #	UANNXXPPPP	1	140	Exp. ID	Point #
Zone-based AUX2 switch alarm restore	pi Exp. ID	UH	Point #	UHNNXXPPPP	3	140	Exp. ID	Point #
Zone-based AUX2 switch disabled	pi Exp. ID	UB	Point #	UBNNXXPPPP	1	571	Exp. ID	Point #
Zone-based AUX2 switch enabled	pi Exp. ID	UU	Point #	UUNNXXPPPP	3	571	Exp. ID	Point #
Zone-based AUX2 switch trouble	pi Exp. ID	UT	Point #	UTNNXXPPPP	1	373	Exp. ID	Point #
Zone-based AUX2 switch trouble restore	pi Exp. ID	UJ	Point #	UJNNXXPPPP	3	373	Exp. ID	Point #
System-based Wireless Gateway Trouble	pi Exp. ID	UT	Point #	UTNNXXPPPP	1	373	Exp. ID	Point #
System-based Wireless Gateway Trouble - restore	pi Exp. ID	UJ	Point #	UJNNXXPPPP	3	373	Exp. ID	Point #
Wireless Gateway Trouble	pi Exp. ID	UT	Point #	UTNNXXPPPP	1	373	Exp. ID	Point #
Wireless Gateway Trouble restore	pi Exp. ID	UJ	Point #	UJNNXXPPPP	3	373	Exp. ID	Point #

11.2 SIA / Panels PI Modifier Reporting:

Events are sent to the central station as a variable length string:

The event format is:

EEZZZZ

Where:

EE Event code (2 characters)

ZZZZ Event parameter (up to four digits – not zero filled)

- 1. The account number is sent using an account block that is separate from the event block
- 2. Multiple events can be sent within a single event block. Events are separated by a "/" character.

- 3. Event parameter can be either a zone, point or module number.
- 4. When reporting by point is enabled, the communicator uses a "pi" event to supersedes the actual point event to report the module the point is linked to.
- 5. Panel ID is not sent in the SIA event parameters.

For Example see Table 11-3:

Table 11-3: SIA- Panels - PI Modifier Reporting Examples

Event	Report Zone/ Point	Panel ID	Module	Zone ZZZZ	Point ZZZZ	Fields Sent	SIA Event Data
Fire Alarm-Zone	Zone	n/a	n/a97	15	n/a	EE-ZZ	FA15
Fire Alarm-Zone	Zone	n/a	n/a	05	n/a	EE-Z	FA5
Fire Alarm-Point	Point	n/a	01	n/a	123	EE-ZZ /EE- ZZZ	pi01/FA123
Fire Alarm-Point	Point	n/a	33	n/a	203	EE-ZZ /EE- ZZZ	pi11/FA203
Expander Trouble	n/a	n/a	11	n/a	n/a	EE-ZZ	ET11
Auto Test	n/a	n/a	n/a	n/a	n/a	EE-Z	RP0
Battery Trouble-Panel 32	n/a	n/a	98	n/a	n/a	EE-ZZ	YT98
Battery Trouble-Expander 18	n/a	n/a	18	n/a	n/a	EE-ZZ	YT18
SLC Loop Shorted	n/a	n/a	44	n/a	n/a	EE-ZZ	ET44
Program Begin Panel ID=32	n/a	n/a	n/a	n/a	n/a	EE-Z	LB0
Program Begin Panel ID= 22	n/a	n/a	n/a	n/a	n/a	EE-Z	LB0
AC Power Loss - Panel 22	n/a	n/a	98	n/a	n/a	EE-Z	AT0
Fire Trouble	Point	n/a	97	n/a	200	EE-ZZ /EE- ZZZ	pi97/FT200
Fire Trouble	Zone	n/a	97	01	n/a	EE-Z	FT1
Fire Trouble-Nac	Point	n/a	98	n/a	Nac Circuit 7	EE-ZZ /EE- Z	pi98/FT7 Z=Pt. #
Fire Trouble-Nac	Zone	n/a	98	n/a	Nac Circuit 7	EE-ZZZ	FT400 ZZZ=OPG#

11.3 SIA - Panel Communicator:

(Differences/additional features are underlined)

Events are sent to the Central Station Receiver as a fixed length string:

The event format is:

EEPPMMZZZZ

Where

EE Event code (2 characters)

PP Panel number (2 digits – Zero Filled) (valid range from 1 to 64)

MM Module number (2 digits – Zero Filled) (valid range from 1 to 98, typically Module information)

ZZZZ Event parameter (4 digits – <u>Zero Filled</u>) (typically Point, Zone or Circuit information)

- 1. The Event field will contain 10 digits including the 2 digit event code (EE), 2 digit panel ID (PP), 2 digit Module Number (MM) and a 4 digit Event Parameter (ZZZZ).
- 2. Based on the actual Event Code, the Module Number or Event Parameter fields might not contain pertinent information. In that case the field will contain zeros.
- 3. The account number is sent using an account block that is separate from the event block.
- 4. Multiple events can be sent within a single event block. Events are separated by a "/" character.
- 5. Event parameter can be a Zone, Point or Circuit Number.
- 6. "pi" modifier event is not used.
- 7. Panel can be set to report by either Point or Zone.

For examples see Table 11-4.

Table 11-4: SIA REPORTING EXAMPLES

Event	Report Zone/ Point	Panel ID PP	Module MM	Zone	Point ZZZZ	Fields Sent	SIA Event Data
Fire Alarm-Zone	Zone	32	n/a	15	n/a	EE-PP-MM-ZZZZ	FA32000015
Fire Alarm-Zone	Zone	32	n/a	05	n/a	EE-PP-MM-ZZZZ	FA32000005
Fire Alarm-Point	Point	32	01	n/a	123	EE-PP-MM-ZZZZ	FA32010123
Fire Alarm-Point	Point	21	33	n/a	203	EE-PP-MM-ZZZZ	FA21330203
Expander Trouble	n/a	15	11	n/a	n/a	EE-PP-MM-ZZZZ	ET15110000
Auto Test	n/a	32	n/a	n/a	n/a	EE-PP-MM-ZZZZ	RP32000000
Battery Trouble-Panel 32	n/a	32	98	n/a	n/a	EE-PP-MM-ZZZZ	YT32980000
Battery Trouble-Expander 18	n/a	32	18	n/a	n/a	EE-PP-MM-ZZZZ	YT32180000
SLC Loop Shorted	n/a	01	44	n/a	n/a	EE-PP-MM-ZZZZ	ET01440000
Program Begin	n/a	32	n/a	n/a	n/a	EE-PP-MM-ZZZZ	LB32000000
Program Begin	n/a	22	n/a	n/a	n/a	EE-PP-MM-ZZZZ	LB22000000
AC Power Loss- Panel 22	n/a	22	98	n/a	n/a	EE-PP-MM-ZZZZ	AT22980000 MM = 00
Fire Trouble	Point	22	97	n/a	200	EE-PP-MM-ZZZZ	FT22970200
Fire Trouble	Zone	22	97	1	n/a	EE-PP-MM-ZZZZ	FT22970001 MM = 00
Fire Trouble-Nac	Point	22	98	n/a	Nac Circuit 7	EE-PP-MM-ZZZZ	FT22980007 ZZZZ=Pt. #
Fire Trouble-Nac	Zone	22	98	n/a	Nac Circuit 7	EE-PP-MM-ZZZZ	FT22980007 ZZZZ=OPG #

Section 12 Testing and Troubleshooting

12.1 Troubleshooting

This section of the manual offers suggestions for troubleshooting hardware problems. Please read this section if you encounter a problem when installing the control panel. If these suggestions do not solve your problem or if you encounter a problem that is not listed here, contact Honeywell Silent Knight Technical Support at 800-446-6444 for assistance.

12.2 Common Problems

Problem	Possible Cause / Suggested Actions
Trouble message "DBL ADDR" (Double Address) displays on LCD.	An address has been assigned to more than one detector. Correct the address following the procedure described in Section 7.9 is using SD devices or Section 7.8 if using SK devices.
Auxiliary power or notification circuits have incorrect polarity.	Correct polarity. For notification and auxiliary power circuits: When in alarm or powered, terminals labeled "X" are positive, terminals labeled "O" are negative.
SLC devices are not being recognized (trouble message "Missing" displays).	Check hardware connections. If devices are physically connected, make sure wiring is correct (see Section 7.5). For the main panel, the positive side of device must be connected to terminal 34; the negative side must be connected to Terminal 33. For SLC devices, make sure the device connects to the SLC loop via the SLC OUT terminals.
	Make sure SLC devices have been addressed properly following the procedure described in Section 7.8 or 7.9. For contact monitor modules, which are addressed using DIP switches, the DIP switch must be set to the correct address before power is applied to the SLC loop. If this procedure is not followed, the device will have an incorrect address.
	Make sure correct polarity has been observed for SLC device wiring. Section 7.9 is using SD devices or Section 7.8 if using SK devices.
SLC devices are not being recognized (trouble message "Missing" displays on the annunciator).	Check that SLC loop impedance is within the required range. To measure impedance, use the following procedure. 1. Disconnect both wires from the terminal block at the panel (SLC devices can remain connected).
	 Measure the impedance from positive to negative and from negative to positive. Both measurements should be greater than 500 K ohms. If the installation uses T-taps, test each T-tap individually.
	3. Temporarily connect the positive wire to the negative wire of the SLC loop at the point farthest from the panel (SLC devices can remain connected).
	4. Measure the impedance from positive to negative and from negative to positive. Both measurements must be less than 50 ohms.

Problem	Possible Cause / Suggested Actions
The panel indicates a ground fault trouble condition (trouble message "GROUND FAULT" displays).	An earth ground fault occurs when the panel senses an unexpected flow of current from one or more of its terminals to the earth connection (Terminal 2). Isolate the wiring that is causing the fault by removing wiring connections one at a time until the earth fault is no longer present. Pause at least five seconds after removing a wire before removing the next one. The panel will also go into ground fault if a computer is connected to the panel via a serial cable attached to the panel's 9-pin connector or USB. This is a correct method for on-site communication between a panel and a computer. Ignore the ground fault message in this case. The trouble will clear automatically when you disconnect the computer from the cable
5496 module that has been physically connected to the panel but is not being recognized.	Check the status of the 5496 green LED. If it flashes in the pattern .5 sec on / .5 sec. off, it is likely that the 5496 has not been added to the system through programming. JumpStart $^{\circledR}$ will add any 5496s connected to the panel. If you have already run JumpStart $^{\circledR}$ 5496s can be added manually (see Section $9.2.2$). Check that the correct ID for the 5496 module has been set through the DIP switches. Assign ID#1 to the first 5496 and ID#2 to the second 5496. See Section 4.11 for complete details. If the wiring between the 5496 and the panel is correct, measure the voltage from 5496 Terminal (+) to Terminal (-). Voltage should be in the range 27.2-27.4V when AC power is present. If the green LED is not flashing, the likely cause is incorrect wiring from between the 5496 and the panel. See Section 4.4 for wiring details.

12.3 Periodic Testing and Maintenance

To ensure proper and reliable operation, it is recommended that system inspection and testing be scheduled monthly or as required by national and/or local fire codes. Testing should be done by a qualified service representative if a malfunction is encountered.

Before Testing:

- 1. Notify the fire department and/or central alarm receiving station if an alarm condition is transmitted.
- 2. Notify facility personnel of a test so that alarm sounding devices are ignored during the test period.

Testing:

- 1. Rotate the key or enter a code to access the Main menu.
- 2. Press 1 for System Test.
- 3. Press 1 to select Fire Drill.
- 4. Press ENTER to begin the drill. To end the drill, press any key.

To conduct a fire drill from a remote fire drill switch: Activate the switch to begin the drill; de-activate the switch to end the drill.

Measure battery voltage while the Notification Appliances are sounding. Replace any battery with terminal voltage less then 85% of rating. Reapply AC power and press RESET.

Note: Note: Replace Batteries every 5 years.

Return all switches to their normal outward positions. Notify fire department, central station and/or building personnel that the test is complete.

12.4 Event History

The event history can be useful for tracking or recalling a trouble condition.

To view event history:

- 1. Press 3 to select Event History.
- 2. Press the up or down arrow key to view events in the history buffer.

12.5 Built-in Troubleshooting and Testing Tools

The fire control panel has several built-in testing and troubleshooting tools that can be utilized to save time while testing and troubleshooting points and SLC devices.

12.5.1 SLC Device Locator

SLC device locator can be used to locate a device on a SLC loop.

Follow these steps to locate a particular SLC device:

- 1. Select 2 (Point Functions) from the Main Menu.
- 2. Select 4 (SLC Dev Locator).

A message similar to the one shown in Figure 12-1 will display.

```
System will be shut
down during SLC
device locating:
Continue? NO
```

Figure 12-1 Shut Down Warning

3. Press the up or down arrow to toggle NO to YES then press ENTER.

If NO is chosen you will exit back to the Point Function menu.

If Yes is chosen the system will cease normal operation leaving the premise unprotected.

- 4. Select the SLC loop.
- 5. Enter the SLC address of the device you wish to locate.

The LED on the selected device will start flashing.

6. Press Left arrow to exit SLC device locator function.

Note: Once you exit the system will resume normal operation.

12.5.2 SLC Multi Locator

This feature is the same as SLC Device Locator, except you can locate up to 8 devices on a single search.

Follow these instructions to locate multiple SLC devices:

- 1. Select 2 (Point Functions) from the Main Menu.
- 2. Select 5 (SLC Dev Locator).

A message similar to the one shown in Figure 12-2 will display.

System will be shut down during SLC device locating: Continue? NO

Figure 12-2 Shut Down Warning

3. Press the up or down arrow to toggle NO to YES then press ENTER.

If NO is chosen you will exit back to the Point Function menu.

If Yes is chosen the system will cease normal operation leaving the premise unprotected.

- 4. Select the SLC loop.
- 5. Enter up to eight SLC addresses for the devices you wish to locate.

The LEDs on the selected devices will start flashing.

6. Press the left arrow to exit SLC multi-locator function.

Note: Once you exit the system will resume normal operation.

12.5.3 I/O Point Control

This feature allows you to toggle any output on or off and trip any input device. This can be useful to test a point's output mapping.

Follow these steps to control a I/O point:

- 1. Select 2 (Point Functions) from the Main Menu.
- 2. Select 6 (I/O Point Control).
- 3. Select the Module the point is on.
- 4. Enter the point number, or press the up or down arrow to select the point you wish to test, then press ENTER.
- 5. Press ENTER to generate an alarm for an input point or activate an output point.
- 6. To exit press the left arrow key.

12.6 Impedances that Cause Earth Ground Faults

Table 12-1 show the minimum impedances that cause an earth ground fault on this system.

Table 12-1: Earth Ground Faults in Ohms

TERMINAL	LOW BIASED		HIGI	H BIASED
(values in kohms)	high trip	high restore	low trip	low restore
NAC 1 -	0	0		
NAC 1 +			0	0
NAC 2 -	0	0		
NAC 2 +			0	0
NAC 3 -	0	0		
NAC 3 +			0	0
NAC 4 -	0	0		
NAC 4 +			0	0
SBUS -			0	0
SBUS +	0	0		
SBUS A			0	0
SBUS B			0	0
SLC IN -			0	0
SLC IN +	0	0		
SLC OUT -			0	0
SLC OUT +	0	0		

LS10146-001SK-E Installation Records

Section 13 Installation Records

This section of the manual is for you to use if you wish to track of how points, zones, and groups have been programmed.

13.1 SLC Device Point Record

You can use Table 13-1 to keep track of SLC device points. Default addresses for ID:On-board: = 33

Table 13-1: Installation Record

Module	Addr	Zone / Group	Description
On-board	1		
On-board	2		
On-board	3		
On-board	4		
On-board	5		
On-board	6		
On-board	7		
On-board	8		
On-board	9		
On-board	10		
On-board	11		
On-board	12		
On-board	13		
On-board	14		
On-board	15		
On-board	16		
On-board	17		
On-board	18		
On-board	19		
On-board	20		
On-board	21		
On-board	22		
On-board	23		
On-board	24		
On-board	25		
On-board	26		
On-board	27		
On-board	28		
On-board	29		
On-board	30		

Module	Addr	Zone/ Group	Description
On-board	31		
On-board	32		
On-board	33		
On-board	34		
On-board	35		
On-board	36		
On-board	37		
On-board	38		
On-board	39		
On-board	40		
On-board	41		
On-board	42		
On-board	43		
On-board	44		
On-board	45		
On-board	46		
On-board	47		
On-board	48		
On-board	49		
On-board	50		
On-board	51		
On-board	52		
On-board	53		
On-board	54		
On-board	55		
On-board	56		
On-board	57		
On-board	58		
On-board	59		
On-board	60		

Table 13-1: Installation Record

Module	Addr	Zone / Group	Description
On-board	61		
On-board	62		
On-board	63		
On-board	64		
On-board	65		
On-board	66		
On-board	67		
On-board	68		
On-board	69		
On-board	70		
On-board	71		
On-board	72		
On-board	73		
On-board	74		
On-board	75		
On-board	76		
On-board	77		
On-board	78		
On-board	79		
On-board	80		
On-board	81		
On-board	82		
On-board	83		
On-board	84		
On-board	85		
On-board	86		
On-board	87		
On-board	88		
On-board	89		
On-board	90		
On-board	91		
On-board	92		
On-board	93		
On-board	94		

Module	Addr	Zone/ Group	Description
On-board	95		
On-board	96		
On-board	97		
On-board	98		
On-board	99		
On-board	100		
On-board	101		
On-board	102		
On-board	103		
On-board	104		
On-board	105		
On-board	106		
On-board	107		
On-board	108		
On-board	109		
On-board	110		
On-board	111		
On-board	112		
On-board	113		
On-board	114		
On-board	115		
On-board	116		
On-board	117		
On-board	118		
On-board	119		
On-board	120		
On-board	121		
On-board	122		
On-board	123		
On-board	124		
On-board	125		
On-board	126		
On-board	127		

LS10146-001SK-E Compatible Devices

Appendix A Compatible Devices

A.1 Notification Appliances

For proper operation, you must use polarized devices with a 4.7k ohm EOL resistor on each loop. All supervised notification appliances used with the control panel must be polarized.

Note: Not all devices can use the Sync feature, be sure to check table below to ensure the device you have chosen will work with this feature. This control is UL listed for panel wide Synchronization.

Table below lists notification appliances compatible with the fire alarm control panel. Appliances which can be synchronized indicate the type of SYNC available in the columns marked Audio and Visual.

Table A-1: Compatible Notification Appliances

Manufacturer	Model	Audio	Visual	Туре
	SH24W-153075	х	Х	Horn/Strobe
	SAD24-153075		х	Strobe
	SAD24-75110		х	Strobe
	SL24W-75110		х	Strobe
	SL24C-3075110		х	Strobe
	SLB24-75		х	Strobe
	RSD24-153075		х	Strobe
	RSD24-75110		х	Strobe
AMSECO	SH24W-75110	х	х	Horn/Strobe
	SH24W-3075110	х	х	Horn/Strobe
	SHB24-75	х	х	Horn/Strobe
	SCM24W-153075	х		Chimes/Strobe
	SCM24W-75110	х		Chimes/Strobe
	SCM24C-3075110	х		Chimes/Strobe
	SCM24C-177	х		Chimes/Strobe
	H24W	х		Horn
	H24R	х		Horn

Table A-1: Compatible Notification Appliances

Manufacturer	Model	Audio	Visual	Туре
	S2415-FC		Х	Strobe
	S241575-FC		х	Strobe
	S2430-FC		х	Strobe
	130-3117C	х		Mini Horn
	130-3147C	х		Mini Horn
	BLV-6	х		Vibrating Bell
	BLV-10	х		Vibrating Bell
	BLVCH	х		Vibrating Chime
	H12/24-FC	х		Horn
	H12/24W-FC	х		Horn
	H12/24K-FC	х		Horn
	HC12/24-FC	х		Horn
	HC12/24W-FC	х		Horn
	HC12/24K-FC	х		Horn
	P2415-FC	х	х	Horn/Strobe
	P2415W-FC	х	х	Horn/Strobe
	P2415K-FC	х	х	Horn/Strobe
	P241575-FC	х	х	Horn/Strobe
FCI	P241575W-FC	х	х	Horn/Strobe
(cont.)	P241575F-FC	х	Х	Horn/Strobe
	P241575K-FC	х	Х	Horn/Strobe
	P2430-FC	х	х	Horn/Strobe
	P2430W-FC	х	х	Horn/Strobe
	P2430K-FC	х	х	Horn/Strobe
	P2475-FC	х	х	Horn/Strobe
	P2475W-FC	х	х	Horn/Strobe
	P2475K-FC	х	х	Horn/Strobe
	P24110-FC	х	х	Horn/Strobe
	P24110W-FC	х	х	Horn/Strobe
	P24110K-FC	х	х	Horn/Strobe
	S2430W-FC		х	Strobe
	S2430K-FC		х	Strobe
	S2475-FC		Х	Strobe
	S2475W-FC		Х	Strobe
	S2475K-FC		Х	Strobe
	S24110-FC		Х	Strobe
	S24110W-FC		Х	Strobe
	S24110K-FC		Х	Strobe
Federal	450	х		Horn
Signal	VALS	x	x	Horn/Strobe

Compatible Devices LS10146-001SK-E

Table A-1: Compatible Notification Appliances

Manufacturer	Model	Audio	Visual	Туре
	GEC-24-15	Х	х	Horn/Strobe
	GEC-24-30	х	х	Horn/Strobe
	GEC-24-60	х	х	Horn/Strobe
	GEC-24-75	х	х	Horn/Strobe
	GEC-24-177	х	Х	Horn/Strobe
	GEC-24-110	х	х	Horn/Strobe
	GEC-24-15/75	х	х	Horn/Strobe
	GX91	х		MiniHorn Steady Tone
	GX93	х		MiniHorn Temporal Tone
	HG124	х		Horn
	HS24-15	х	х	Horn/Strobe
	HS24-30	x	х	Horn/Strobe
	HS24-60	x	х	Horn/Strobe
	HS24-75	x	х	Horn/Strobe
	HS24-110	x	х	Horn/Strobe
	HS24-1575	x	х	Horn/Strobe
	GCC24	x	х	Multi Candella Horn/Strobe Ceiling Mount
	GCCR24		х	Multi Candella Horn/Strobe Ceiling Mount
	GCS24		х	Multi Candella Strobe Ceiling Mount
Gentex	GCSR24		х	Multi Candella Strobe Ceiling Mount
	GECR-24	x	х	Multi Candella Horn/Strobe
	GES24-15		х	Strobe
	GES24-30		х	Strobe
	GES24-60		Х	Strobe
	GES24-75		х	Strobe
	GES24-110		х	Strobe
	GES24-15/75		х	Strobe
	GES24-177		х	Strobe
	GES3-24		х	Multi Candella Strobe
	GESR-24		х	Multi Candella Strobe
	GEH-24	х		Horn
	ST24-30		х	Strobe
	ST24-60		х	Strobe
	ST24-75		х	Strobe
	ST24-110		х	Strobe
	ST24-1575		х	Strobe
	WGEC24-75W	x	х	Weatherproof Horn/Strobe
	WGES24-75W		х	Weatherproof Strobe
	WGMS-24-X	х	х	Horn/Strobe

Table A-1: Compatible Notification Appliances

Manufacturer	Model	Audio	Visual	Туре
	CHR	х		Chime
	CHW	х		Chime
	CHSR	х	х	2-Wire Chime/Strobe
	CHSW	х	х	2-Wire Chime/Strobe
	HR	х	х	Horn
	HW		х	Horn
	HRK		х	Horn
	HWL		х	Horn WHT Wall 4x4
	HRL		х	Horn Red Wall 4x4
	HGRL		х	Horn Red Wall 2x4
	HGWL		х	Horn WHT Wall 2x4
	CHWL	х		Chime WHT Wall 4x4
	CHRL	х		Chime Red Wall 4x4
	CHSRL	х	х	Chime/Strobe Red Wall 4x4
	CHSWL	х	х	Chime/Strobe WHT Wall 4x4
	CHSCRL	х	х	Chime/Strobe Red Ceil 4x4
	CHSCWL	х	х	Chime/Strobe WHT Ceil 4x4
	P2R	х	х	2-Wire Horn/Strobe
	P2R-P	х	х	2-Wire Horn/Strobe
System	PC2R	х	х	2-Wire Horn/Strobe
Sensor	PC2R-P	х	х	2-Wire Horn/Strobe
	P2RH	х	х	2-Wire Horn/Strobe High Candela
	P2RH-P	х	х	2-Wire Horn/Strobe High Candela
	PC2RH	х	х	2-Wire Horn/Strobe High Candela
	PC2RH-P	х	х	2-Wire Horn/Strobe High Candela
	P2W	х	х	2-Wire Horn/Strobe
	P2W-P	х	х	2-Wire Horn/Strobe
	PC2W	х	х	2-Wire Horn/Strobe
	PC2W-P	х	х	2-Wire Horn/Strobe
	P2WH	х	х	2-Wire Horn/Strobe High Candela
	P2WH-P	х	х	2-Wire Horn/Strobe High Candela
	PC2WH	х	х	2-Wire Horn/Strobe High Candela
	PC2WH-P	х	х	2-Wire Horn/Strobe High Candela
	P2RK	x	х	2-Wire Horn/Strobe
	PC2RK	x	х	2-Wire Horn/Strobe
	P2RHK	x	х	2-Wire Horn/Strobe High Candela
	PC2RHK	x	х	2-Wire Horn/Strobe High Candela
	P4R	x	х	4-Wire Horn/Strobe
	PC4R	x	Х	4-Wire Horn/Strobe
	P4RH	x	х	4-Wire Horn/Strobe High Candela

Table A-1: Compatible Notification Appliances

Manufacturer	Model	Audio	Visual	Туре
	P4W	Х	Х	4-Wire Horn/Strobe
	PC4W	х	х	4-Wire Horn/Strobe
	P4WH	Х	Х	4-Wire Horn/Strobe High Candela
	PC4WH	Х	Х	4-Wire Horn/Strobe High Candela
	P4RK	Х	Х	4-Wire Horn/Strobe
	PC4RK	Х	Х	4-Wire Horn/Strobe
	P4RHK	Х	Х	4-Wire Horn/Strobe High Candela
	PC4RHK	Х	Х	4-Wire Horn/Strobe High Candela
	PC4RH	Х	Х	4-Wire Horn/Strobe High Candela
	P2RL, P2RL-P, P2RL-SP*	Х	х	Horn/Strobe 2W Red Wall 4x4
	P2WL, P2WL-P, P2WL-SP*	Х	х	Horn/Strobe 2W WHT Wall 4x4
	PC2RL	х	х	Horn/Strobe 2W Red Ceil 4x4
	PC2WL	х	х	Horn/Strobe 2W WHT Ceil 4x4
	P2GRL	х	х	Horn/Strobe 2W Red Wall 2x4
	P2GWL	Х	х	Horn/Strobe 2W WHT Wall 2x4
	P4RL	Х	х	Horn/Strobe 4W Red Wall 4X4
	P4WL	Х	х	Horn/Strobe 4W WHT Wall 4X4
	PC4RL	х	х	Horn/Strobe 4W Red Ceil 4X4
System	PC4WL	х	х	Horn/Strobe 4W WHT Ceil 4X4
Sensor (cont.)	SR		х	Strobe
,	SR-P		х	Strobe
	SCR		х	Strobe
	SCR-P		Х	Strobe
	SRH		Х	Strobe High Candela
	SRH-P		Х	Strobe High Candela
	SCRH		Х	Strobe High Candela
	SCRH-P		Х	Strobe High Candela
	SW		х	Strobe
	SW-P		Х	Strobe
	SCW		Х	Strobe
	SCW-P		Х	Strobe
	SWH		Х	Strobe High Candela
	SWH-P		Х	Strobe High Candela
	SCWH		Х	Strobe High Candela
	SCWH-P		Х	Strobe High Candela
	SRK		х	Strobe
	SCRK		х	Strobe
	SRHK		Х	Strobe High Candela

Table A-1: Compatible Notification Appliances

Manufacturer	Model	Audio	Visual	Туре
	SCRHK		Х	Strobe High Candela
	SRL, SRL-P, SRL-SP*		х	Strobe Red Wall 4x4
	SWL, SWL-P, SWL-ALERT SWL-CLR-ALERT*		х	Strobe White Wall 4x4
	SCRL		Х	Strobe Red Ceil 4x4
0 .	SCWL		Х	Strobe White Ceil 4x4
System Sensor	SCWL-CLR-ALERT		Х	Strobe WHT Ceil CLR Lens 4x4
(cont.)	SGRL		Х	Strobe Red Wall 2x4
	SGWL		Х	Strobe White Wall 2x4
	P2RH-LF	Х	Х	2-Wire Low Frequency Sounder Strobe
	P2WH-LF	Х	Х	2-Wire Low Frequency Sounder Strobe
	HR-LF	Х		Low Frequency Sounder
	HW-LF	Х		Low Frequency Sounder
* P=Plain, ALI	ERT=Pad Printing ALERT, S	SP=Fuego	L	
	AH-12	х		Horn
	AH-24	х		Horn
	AH-12WP	х		Horn Weatherproof
	AH-24WP	х		Horn Weatherproof
	AMT-241575W	х	х	Multi-Tone Horn Strobe
	AMT-24MCW		х	Mutli-Tone Horn Strobe
	AMT-241575W-NYC	х	х	Multi-Tone Horn Strobe
	AMT-12/24	Х		Multi-tone Horn
	AMT-12/24 NYC	Х		Multi-tone Horn
	AS-121575W		х	Horn/Strobe
	NH-12/24	х	х	Horn
	AS-241575W	х	х	Horn/Strobe
	AS-24MCC	х	х	Horn/Strobe
Wheelock	AS-24MCCH	х	х	Horn/Strobe
	AS-24MCW	х	х	Horn/Strobe
	AS-24MCWH	х	х	Horn/Strobe
	ASWP-2475W	х	х	Horn/Strobe Weatherproof
	ASWP-2475C	х	х	Horn/Strobe Weatherproof
	ASWP-24MCWH	х	х	Horn/Strobe
	ASWP-24MCCH	х	х	Horn/Strobe
	CH-70	х		Chime
	CH-90	х		Chime
	CH70-241575W		х	Chime/Strobe
	CH70-24MCW		х	Chime/Strobe
	CH70-24MCWH		Х	Chime/Strobe
	CH90-24MCC		х	Chime/Strobe
	CH90-24MCCH	1	х	Chime/Strobe

Table A-1: Compatible Notification Appliances

Manufacturer	Model	Audio	Visual	Туре
	HS-24	х		Horn
	HS4-241575W	х	Х	Horn/Strobe
	HS4-24MCW	х	х	Horn/Strobe
	HS4-24MCWH	х	х	Horn/Strobe
	HS4-24MCC	x	х	Horn/Strobe
	MIZ-24S	x	х	Mini Horn Strobe
	MT-121575W		х	MultitoneHorn Strobe
	MT-241575W	х	х	Multitone Horn Strobe
	MT-24MCW		х	Multitone Horn Strobe
	MTWP-2475W		х	Multitone Horn Strobe
	MTWP-2475C		х	Multitone Horn Strobe
	MTG-121575W	х	х	Multitone Horn Strobe
	MTR-121575W	х	х	Multitone Horn Strobe
	MTWPA-2475W	x	х	Multitone Horn Strobe
	MTWPB-2475W	x	х	Multitone Horn Strobe
	MTWPG-2475W	x	х	Multitone Horn Strobe
	MTWPR-2475W	x	х	Multitone Horn Strobe
	MTWPA-24MCCH	x	Х	Multitone Horn Strobe
	ZNH	x		Horn
Wheelock	NS-121575W	x	Х	Horn/Strobe
(cont.)	NS-241575W	x	х	Horn/Strobe
	NS-24MCW	x	Х	Horn/Strobe
	NS-24MCC	x	Х	Horn/Strobe
	NS-24MCCH	x	Х	Horn/Strobe
	ZNS-MCW	x	х	Horn/Strobe
	ZNS-MCWH	x	Х	Horn/Strobe
	ZNS-24MCC	x	Х	Horn/Strobe
	ZNS-24MCCH	x	Х	Horn/Strobe
	RSS-121575W		Х	Strobe
	RSS-241575W		х	Strobe
	RSS-24MCC		Х	Strobe
	RSS-24MCCR		Х	Strobe
	RSS-24MCCH		Х	Strobe
	RSS-24MCCHR		Х	Strobe
	RSS-24MCW		Х	Strobe
	RSS-24MCWH		Х	Strobe
	RSSP-121575W		Х	Strobe
	RSSP-241575W		х	Strobe
	RSSR-2415W		х	Strobe
	RSSR-2415C		x	Strobe

Table A-1: Compatible Notification Appliances

Manufacturer	Model	Audio	Visual	Туре
	RSSR-2475W		Х	Strobe
	RSSR-2475C		х	Strobe
	RSSR-24110C		х	Strobe
	RSSA-24110W		х	Strobe
	RSSB-24110W		х	Strobe
	RSSG-24110W		х	Strobe
	RSSR-24110W		х	Strobe
	RSSA-24MCC		х	Multi-Cd Strobe
	RSSB-24MCC		х	Multi-Cd Strobe
	RSSG-24MCC		х	Multi-Cd Strobe
	RSSR-24MCC		х	Multi-Cd Strobe
	RSSWPA-2475W		х	Strobe Weatherproof
	RSSWPA-24MCCH		х	Strobe Weatherproof
	RSSWPG-24MCCH		х	Strobe Weatherproof
	RSSWPR-24MCCH		х	Strobe Weatherproof
	RSSWP-2475W		х	Strobe Weatherproof
	RSSWP-2475C		х	Strobe Weatherproof
Wheelock	RSSWP-24MCWH		х	Strobe Weatherproof
(cont.)	ZRS-MCWH		х	Strobe
(COIII.)	ZRS-24MCC		х	Strobe
	ZRS-24MCCH		х	Strobe
	MB-G6-24	х		Motor Bell
	MB-G10-24	х		Motor Bell
	MB-G6-12	х		Motor Bell
	MB-G10-12	х		Motor Bell
	MIZ-24-R	х		Mini-Horn
	MT-12/24-R	х	х	Multitone Horn
	MT4-12/2z	х	х	Multitone Horn
	ZRS-MCW		х	Strobe
	MTWPR-24MCCH	х	х	Multitone Horn Strobe
	NH-12/24R	х		Horn
	HSR		х	Horn/Strobe
	HSW		х	Horn/Strobe
	STR		х	Strobe
	STW		х	Strobe
	HNR		х	Horn
	HNW		х	Horn

A.2 Two Wire Detectors

Table A-2 lists two-wire smoke detectors that are compatible with the fire control panel. The table is organized by manufacturer. The columns show the number of detectors per loop that can be used.

	6808
Identifier	24H
Operating voltage Range	17.1 - 27.3 VDC

Note: The maximum number of smoke detectors per zone is determined by both the current draw and the impedance of the smoke detector. If too many smoke detectors are used on any zone, false alarms could occur.

Do not mix different models of detectors on any zone; false alarms could occur.

Control unit Smoke Reset Time must be programmed for a number greater than or equal to the maximum.

Table A-2: Compatible Two-Wire Smoke Detectors Style B

	Model Name or Number	Compatibility ID		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Manufacturer	(Base model name or number in parenthesis.)	Head	Base	# per Loop
Apollo	55000-350 (45681-200)	55000-350	45681-200	15 / loop
	55000-250 (45681-200)	55000-250	45681-200	24 / loop
	55000-225	55000-225	45681-255, 256	15 / loop for Ion
	55000-226	55000-226		Detectors
	55000-227	55000-227	251, 252	15 / loop for
	55000-325	55000-325		Photo Electric
	55000-326	55000-326		Detectors
	55000-327	55000-327		
	55000-328	55000-328		
Hochiki	SLR-24	HD-3		15 / loop
	SLR-24H		HSC-220R(HB-72)	
	SLR-24V		NS6-220 OR NS4-220	
	SLR-835	HD-3	(HB-3)	14 / loop
	SLR-835H	HD-5		

Table A-2: Compatible Two-Wire Smoke Detectors Style B

Manufacturer	Model Name or Number (Base model name or number in parenthesis.)	Co	Compatibility ID	
wanutacturer		Head	Base	# per Loop
System Sensor	1400	А	N/A	16 / loop
	1451 (B401B)	Α	N/A	16 / loop
	2100	Α	N/A	20 / loop
	2100T	Α	N/A	20 / loop
	2151 (B401)	Α	N/A	16 / loop
	2151T (B401)	Α	N/A	16 / loop
	2400	Α	N/A	16 / loop
	2400TH	Α	N/A	16 / loop
	2451 (B401B)	Α	N/A	16 / loop
	2451TH (B401B)	Α	N/A	16 / loop
	2W-B	Α	N/A	20 / loop
	2WT-B	Α	N/A	20 / loop
	2WTA-B	Α	N/A	1 / loop
	2WTR-B	А	N/A	1 / loop

A.3 Four-Wire Smoke Detectors/Devices (UL Listed)

Table A-3 Compatible Four-Wire Smoke Detectors

Smoke Detector/Base	Detector Type	Max Standby Current (mA)	Alarm Current (mA)
Fenwal CPD-7021 (w/70-201000-005 Base)	Ionization	0.10	*
Fenwal PSD-7125	Photoelectric	0.10	*
Fenwal PSD-7126 (w/70-201000-005 Base)	Photoelectric	0.10	*
Fire-Lite BLP-12-4W	Base	*	*
Gentex 824	Photoelectric	0.50	*
Gentex 824T	Photoelectric	0.50	*
Gentex 824CP	Photoelectric	0.50	*
Gentex 824CPT	Photoelectric	0.50	*
Hochiki HSC-4R	Base	*	*
Hochiki SPB-24	Projected Beam	0.25	*
System Sensor B112LP	Base	0.12	36
System Sensor B114LP	Base	*	*
System Sensor B404B	Base	*	*
System Sensor DH100ACDC	Photoelectric	0.15	0.70
System Sensor DH100ACDCLP	Photoelectric	0.15	0.70
System Sensor DH100ACDCLWP	Photoelectric	0.15	0.70
System Sensor DH400ACDCI	Ionization Duct	25	95
System Sensor DH400ACDCP	Photoelectric Duct	25	95
System Sensor 1112/24/D	Ionization	0.05	50
System Sensor 1424	Ionization	0.10	41
System Sensor 1451 (w/B402B Base)	Ionization	0.10	39
System Sensor 2112/24ATR	Photoelectric	0.50	60/70
System Sensor 2112/24AITR	Photoelectric	0.50	60/70
System Sensor 2112/24/D	Photoelectric	0.05	50
System Sensor 2112/24R	Photoelectric	0.50	60/70

Smoke Detector/Base	Detector Type	Max Standby Current (mA)	Alarm Current (mA)
System Sensor 2112/24TR	Photoelectric	0.50	60/70
System Sensor 2112/24T/D	Photoelectric w/135° Thermal	0.05	50
System Sensor 2112/24TSRB	Photoelectric w/135° Thermal Supervisory Relay	15	45
System Sensor 2312/24TB	Photoelectric	0.12	50
System Sensor 2412 (12 volt)	Photoelectric	0.12	77
System Sensor 2412AT (12 volt)	Photoelectric	0.12	58
System Sensor 2412TH (12 volt)	Photoelectric	0.12	77
System Sensor 2424	Photoelectric	0.10	41
System Sensor 2424TH	Photoelectric	0.10	41
System Sensor 2451	Photoelectric	0.10	39
System Sensor 2451TH (with/B402B Base)	Photoelectric	0.10	39
System Sensor 2W-MOD	Loop Test/Maintenance Mod.	30	50
System Sensor 4W-B (12/24 Volt)	Photoelectric I ³	.05	23
System Sensor4WT-B (12/24 Volt)	Photoelectric I ³ w/Therm	.05	23
System Sensor 4WTA-B (12/24 Volt)	I ³ Photo w/ Therm Sounder	.05	35
System Sensor 4WTR-B (12/24 Volt)	I ³ Photo w/ Therm/Relay	.05	35
System Sensor 4WTAR-B (12/24 Volt)	I ³ Photo w/ Therm/Sounder/ Relay	.05	50
System Sensor 4WITAR-B (12/24 Volt)	I ³ Photo w/ Isolated Therm/ Sounder/Relay	.05	50
System Sensor 2W-MOD2	I ³ Loop Test/Maintenance Mod.	.05	*
System Sensor RRS-MOD	I ³ Reversing Relay/Sync Module	.05	*
System Sensor 6424	Projected Beam	10	28.4
System Sensor Beam 1224(S)	Projected Beam	17	38.5
* Contact manufacturer for current draws	•		

A.4 Door Holders (UL Listed)

Table A-4 lists door holders that are compatible with the fire control panel.

Table A-4 Compatible Door Holders

Manufacturer	Model	Туре	Current (mA)
Edwards	DH150A	Floor Mount	96
Edwards	DH154A	Flush Mount	96
Edwards	DH158A	Surface Mount	96
Rixon Firemark	FM-980	Floor Mount, single	68
Rixon Firemark	FM-996	Surface Wiring	68
Rixon Firemark	FM-998	Concealed Wiring	68

A.5 Relays (UL Listed)

Table A-5 lists relays compatible with the fire control panel.

Table A-5 Compatible Relays

Manufacturer	Model	Current (mA)
Air Products & Controls, LTD	MR-101/C MR-201/C PAM-1	15 35 15
	PAM-2 PAM-SD	15 15
System Sensor	A77-716B PR-1 PR-2 PR-3 EOLR-1 R-10T R-14T R-20T R-24T R-10E R-14E R-20E R-24E	20 15 30 30 30 23 23 40 40 23 23 40 40

A.6 Compatible 520Hz Signaling Speakers

Table A-6 520Hz Speakers

Model Number Description		
SPR	Wall High-Fidelity Speaker, Red	
SPW	Wall High-Fidelity Speaker, White	
SPCR	Ceiling High-Fidelity Speaker, Red	
SPCW	Ceiling High-Fidelity Speaker, White	
SPSR	Wall High-Fidelity Speaker Strobe, Red	
SPSRH	Wall High-Fidelity Speaker Strobe, High Candela, Red	
SPSW	Wall High-Fidelity Speaker Strobe, White	
SPSCR	Ceiling High-Fidelity Speaker Strobe, Red	
SPSCW	Ceiling High-Fidelity Speaker Strobe, White	
SPSCWH	Ceiling High-Fidelity Speaker Strobe, High Candela, White	
SPSCRH	Ceiling High-Fidelity Speaker Strobe, High Candela, Red	
SPSCW-CLR-ALERT	Ceiling High-Fidelity Speaker Strobe, Clear Lens, ALERT, White	
SPSCW-P	Ceiling High-Fidelity Speaker Strobe, Plain, White	
SPSCWH-P	Ceiling High-Fidelity Speaker Strobe, High Candela, Plain, White	
SPSR-P	Wall High-Fidelity Speaker Strobe, Plain, Red	
SPSRH-P	Wall High-Fidelity Speaker Strobe, High Candela, Plain, Red	
SPSCWH-P	Ceiling High-Fidelity Speaker Strobe, High Candela, Plain, White	
SPSW-ALERT	Wall High-Fidelity Speaker Strobe, Amber Lens, ALERT, White	
SPSW-CLR-ALERT	Wall High-Fidelity Speaker Strobe, Clear Lens, ALERT, White	
SPSW-P	Wall High-Fidelity Speaker Strobe, Plain, Red	
SPSWH	Wall High-Fidelity Speaker Strobe, High Candela, White	
SPSWH-P	Wall High-Fidelity Speaker Strobe, High Candela, Plain, Red	
SPRL	Wall High-Fidelity Speaker, Red	
SPWL	Wall High-Fidelity Speaker, White	
SPCRL	Ceiling High-Fidelity Speaker, Red	
SPCWL	Ceiling High-Fidelity Speaker, White	
SPSCRL	Ceiling High-Fidelity Speaker Strobe, Red	
SPSCWL	Ceiling High-Fidelity Speaker Strobe, White	
SPSRL	Wall High-Fidelity Speaker Strobe, Red	
SPSRL-SP	Wall High-Fidelity Speaker Strobe-FUEGO	
SPSWL	Wall High-Fidelity Speaker Strobe, White	
SPSCWL-P	Ceiling High-Fidelity Speaker Strobe, Standard, White, Plain	
SPSRL-P	Ceiling High-Fidelity Speaker Strobe, Standard, Red, Plain	
SPSWL-P	Wall High-Fidelity Speaker Strobe, Standard, White, Plain	
SPSCWL-CLR-ALERT	Ceiling High-Fidelity Speaker Strobe, Clear Lens, Standard, White, ALERT	
SPSWL-ALERT	Wall High-Fidelity Speaker Strobe, Amber Lens, ALERT, White	
SPSWL-CLR-ALERT	Wall High-Fidelity Speaker Strobe, Clear Lens, Standard, ALERT, White	
*F=FIRE, P=PLAIN, AL=A	ALERT, AG=AGENT, EV=EVAC, SP=FUEGO, PG=FOGO	

A.7 Compatible 520Hz Low Frequency Bases

Table A-7 Low Frequency Bases

Model Number	Description
B200S-LF	Low Frequency Intelligent Sounder Base
B200SR-LF	Low Frequency Intelligent Sounder Base

Appendix B Editing Text Using the Built-In Programmer

This section contains tables of programmable characters that may be used for device, module, site, template, group, and zone names or phone numbers. T9 style editing is used.

B.1 Characters Used for Editing Text

Table B-1 lists the available characters and their associated numeric designator. When programming:

- 1. Use the Up or Down arrow key to scroll to the mode wanted.
- 2. Press the number shown in Table B-1 until the character wanted is shown.
- 3. Arrow left and right for position, and press enter to accept.

Table B-1: Character Table

	Lawren Oana Lattera						
Lower Case Letters							
abc	1	def	2	ghi	3	jkl	4
mno	5	pqr	6	stu	7	vwx	8
yz	9	Spc	0				
Upper Case Letters							
ABC	1	DEF	2	GHI	3	JKL	4
MNO	5	PQR	6	STU	7	VWX	8
YZ	9	Spc	0				
Numbers and Special Characters							
1[]	1	2()	2	3.,	3	4:;	4
5 ' "	5	6?!	6	7'/	7	8 – +	8
9 = -	9	0	0	* & @	*	#\$	#

B.2 Example Name Edit

- 1. Press the up or down arrow to select upper case letters mode, Press 2 until "F" appears.
- 2. Press the up or down arrow to change mode to lower case letters, Press 3 until "i" appears.
- 3. Press 6 until "r" appears.
- 4. Press 2 until "e" appears.
- 5. Press 0 to space, then continue to next word using the same process.
- 6. Press ENTER to accept.

Note: After three seconds of no change, letter will automatically be accepted. Also pressing next number will automatically accept previous choice.

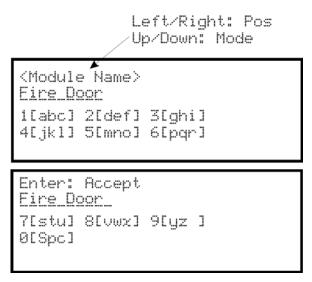


Figure B-1 Edit Name Example

Appendix C Expanded Receiver/Panel Relationship

The available receiver number will correspond with what panel number you entered. Receiver numbers are populated based on panel number and audited to allow only the 4 appropriate receivers. See Section 6.2.6.3.

Table C-1 Receiver/panel relationship

Panel	Available receiver numbers			
1	1	2	3	4
2	5	6	7	8
3	9	10	11	12
4	13	14	15	16
5	17	18	19	20
6	21	22	23	24
7	25	26	27	28
8	29	30	31	32
9	33	34	35	36
10	37	38	39	40
11	41	42	43	44
12	45	46	47	48
13	49	50	51	52
14	53	54	55	56
15	57	58	59	60
16	61	62	63	64
17	65	66	67	68

Cadence Patterns LS10146-001SK-E

Appendix D Cadence Patterns

The cadence patterns shown in Appendix D are available for use with the control panel.

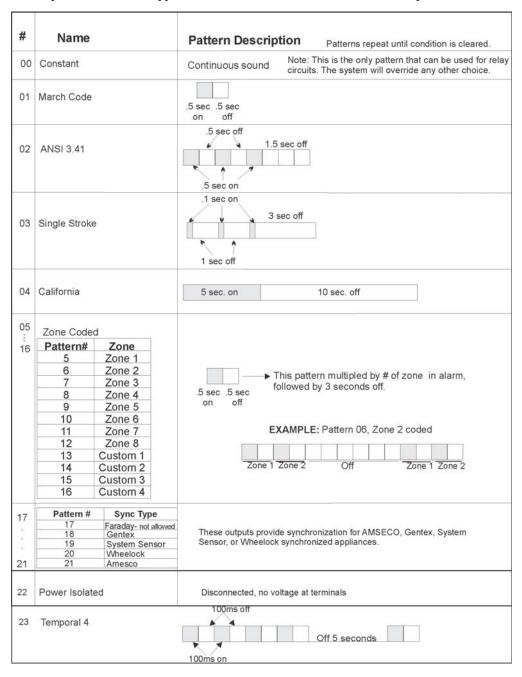


Figure C-2 Cadence Patterns Available with the Control Panel

Panel Security

Panel installation / maintenance security checklist

System Description:	
System Location:	
Installer:	Date:

Complete the following Cyber security tasks for each panel Install

- Install the panel in a secure location considering both software and hardware vulnerabilities.
- Change the default password to a unique password
- Securely configure networks and firewalls
- Assess security risks
- Develop a Disaster and Recovery Plan
- Develop a Backup and Recovery Strategy
- Install, configure and keep anti virus software updated on all computers which access the panel
- Keep operating system updated on all computers which access the panel
- Deliver all required system information upon delivery to the system owner
- Train end-users on security maintenance tasks upon system delivery
- For decommissioning, dispose of data securely.
- Ensure the Ethernet cable is removed from the FACP when not being utilized for configuration

Security and Data Protection

Communication Security - Level 1

Stored Data Security - Level 0

Physical Security - Level 1

Access Control Security - Level 1

Honeywell Fire Product Warranty and Return Policy

General Terms and Conditions

- All new fire products manufactured by Honeywell have a limited warranty period of 36 months from the
 date of manufacture against defects in materials and workmanship. See limited warranty statement for
 details.
- This limited warranty does not apply to those products that are damaged due to misuse, abuse, negligence, exposure to adverse environmental conditions, or have been modified in any manner whatsoever.

Repair and RMA Procedure

- All products that are returned to Honeywell for credit or repair require a RMA (Return Authorization) number. Call Customer Service at 800-328-0103 or 203-484-7161 between 8:00 A.M. and 5:00 P.M. EST, Monday through Friday to obtain a return authorization number.
- Honeywell Silent Knight and Farenhyt Series Technical Support is available at 800-446-6444 between 8:00 A.M. and 5:00 P.M. CST, Monday through Friday.
- All returns for credit are subject to inspection and testing at the factory before actual determination is made to allow credit.
- RMA number must be prominently displayed on the outside of the shipping box. See return address example under Advanced Replacement Policy.
- Included with each return should be: a packing slip that has the RMA number, a content list, and a detailed description of the problem.
- All products returned by Honeywell must be sent freight pre-paid. After the product is processed, Honeywell will pay for shipping product back to customer via UPS ground.
- Return the Honeywell Silent Knight product circuit board only. Products that are returned in cabinets will be charged an additional \$50 to cover the extra shipping and handling costs over board only returns. **Do not return batteries.** Honeywell has the authority to determine if a product is repairable. Products that are deemed un-repairable will be returned to the customer.
- Product that is returned that has a board date code more than 36 months from date of manufacture will be repaired and the customer will be assessed the standard Honeywell Silent Knight repair charge for that model.

Advanced Replacement Policy

- Honeywell Silent Knight and Farenhyt Series offers an option of advance replacement for fire product printed circuit boards that fail during the first 6 months of the warranty period. These items must be returned with transportation charges prepaid and must be accompanied by a return authorization.
- For advance replacement of a defective board, contact your local Honeywell Silent Knight distributor or call Honeywell Silent Knight at 800-328-0103 to obtain a RMA (Return Authorization) number and request advanced replacement.
- A new or refurbished board will be shipped to the customer. The customer will initially be billed for the
 replacement board but a credit will be issued after the repairable board is received at Honeywell Silent
 Knight. All returned products must comply with the guidelines described under "General Terms and
 Conditions" and "Repair and RMA Procedure".
- The defective board must be returned within 30 days of shipment of replacement board for customer to receive credit. No credit will be issued if the returned board was damaged due to misuse or abuse.

Manufacturer Warranties and Limitation of Liability

Manufacturer Warranties. Subject to the limitations set forth herein, Manufacturer warrants that the Products manufactured by it in its Northford, Connecticut facility and sold by it to its authorized Distributors shall be free, under normal use and service, from defects in material and workmanship for a period of thirty six months (36) months from the date of manufacture (effective Jan. 1, 2009). The Products manufactured and sold by Manufacturer are date stamped at the time of production. Manufacturer does not warrant Products that are not manufactured by it in its Northford, Connecticut facility but assigns to its Distributor, to extent possible, any warranty offered by the manufacturer of such product. This warranty shall be void if a Product is altered, service repaired by anyone other than Manufacturer or its authorized Distributors. This warranty shall also be void if there is a failure to maintain the Products and the systems in which they operate in proper working conditions.

MANUFACTURER MAKES NO FURTHER WARRANTIES, AND DISCLAIMS ANY AND ALL OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE PRODUCTS, TRADEMARKS, PROGRAMS AND SERVICES RENDERED BY MANUFACTURER INCLUDING WITHOUT LIMITATION, INFRINGEMENT, TITLE, MERCHANTABILITY, OR FITNESS FOR ANY PARTICULAR PURPOSE. MANUFACTURER SHALL NOT BE LIABLE FOR ANY PERSONAL INJURY OR DEATH WHICH MAY ARISE IN THE COURSE OF, OR AS A RESULT OF, PERSONAL, COMMERCIAL OR INDUSTRIAL USES OF ITS PRODUCTS.

This document constitutes the only warranty made by Manufacturer with respect to its products and replaces all previous warranties and is the only warranty made by Manufacturer. No increase or alteration, written or verbal, of the obligation of this warranty is authorized. Manufacturer does not represent that its products will prevent any loss by fire or otherwise.

Warranty Claims. Manufacturer shall replace or repair, at Manufacturer's discretion, each part returned by its authorized Distributor and acknowledged by Manufacturer to be defective, provided that such part shall have been returned to Manufacturer with all charges prepaid and the authorized Distributor has completed Manufacturer's Return Material Authorization form. The replacement part shall come from Manufacturer's stock and may be new or refurbished. THE FOREGOING IS DISTRIBUTOR'S SOLE AND EXCLUSIVE REMEDY IN THE EVENT OF A WARRANTY CLAIM.

Warn-HL-08-2009.fm



Model 6808 Basic Operating Instructions

These Instructions must be framed and displayed next to the 6808 panel in accordance with NFPA 72 fire code for Local Protected Fire Alarm Systems. Test the system in accordance to NFPA 72.

Operation	Task to Perform				
Silence Alarms and Troubles	Press SILENCE then rotate the key or enter a code if prompted. Silence LED will light.				
Reset Alarms	Press RESET then rotate the key or enter a code if prompted.				
	Press the up or down arrow button to view Alarms, Supervisories, and Troubles.				
View Alarms, Supervisories, and Troubles	FIRE: ALRM SUPR TRBL CO: ALRM SYS: TRBL Zone_1 1 of 1 Info>				
View a Point's Status	 Press to access Main Menu, then rotate the key or enter a code if prompted. Then press 2 to select Point Functions. Select the module the device is located on by using the up or down arrow, then press ENTER. Enter the point number. 				
Conduct a Fire Drill	 Press ENTER to access Main Menu, then rotate the key or enter a code if prompted. Press 1 to select System Tests. Enter code if prompted, then press 1 to select Fire Drill. Press ENTER to start the fire drill. Press ENTER to end the fire drill. 				
Check Detector Sensitivity	 Press ENTER to access Main Menu. Press 2 for Point Status. From the list that displays, select the SLC module where the point you want to view is located. The fourth line of the display shows the sensitivity status. "NORMAL" means the detector is in compliance with NFPA 72. "CAL MAINT" means the detector is in compliance with NFPA 72 but maintenance should be performed soon. "CAL TRBLE" means the detector is not in compliance with NFPA 72. 				
Set Time and Date	 Press ENTER to access Main Menu, then rotate the key or enter a code if prompted. Then press 4 to select Set Time & Date. Enter a code if prompted. Make changes in the fields on the screen as necessary. Press ENTER if you wish to keep the changes. Press ENTER to set the entered time and date. 				
Enable / Disable a Point	 Rotate the key or enter a code to access to access Main Menu. Press 2 to select Point Functions. Press 1 for Disable / Enable Pt Press 7 for Disable / Enable Pt. Use the up or down arrow or to move through the list. Then press ENTER to select the module where the point you want to disable/enable is located Enter the point or circuit number that you want to disable/enable. Press Right Arrow to toggle between NORMAL (enable) or DISABLE. 				
View Event History	 Press ENTER to access Main Menu, then rotate the key or enter a code if prompted. Press 3 to select Event History. Press the up or down arrow to view events in the history buffer. 				
For Service Call:					

P/N LS10164-001SK-E Rev A ECN: 16-0218

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