SILENT KNIGHT
by Honeywell

Model SK-5208

Fire Control / Communicator

Installation and Operations Manual Sections 5 & 7

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Section 5
Operation

To operate the SK-5208 you can use either the on-board touchpad or the Model SK-5235 Remote Annunciator.

Figure 5-1 Model SK-5235 Remote Annunciator

Important! Upon initial power up there is a 45 second delay before the initiation circuits become active. The system will be ready to receive alarms once the display indicates "System Normal**"**

5.1 Installer & User Keys

An installer key ships with the panel and an operator's key ships with the SK-5235 (Figure 5-2). The installer key opens the panel door and can be used to perform user operations without a user code at the panel and the SK-5235. The operator's key can be used to perform user operations without a user code but will not open the panel door. All installer operations require an installer code. To perform user operations without a user code, insert and turn the key as shown in Figure 5-2. See Table 5-1 for a list of user and

Installer Key: Perform user operations without a user code and open panel door.

User Key: Perform user operations without a user code.

Normal Operation

User Operations Enabled

Note: The key can not be removed when in the user operations position.

installer operations.

Figure 5-2 Keys & Key Operation

5.2 On-board Touchpad and SK-5235 Operation

Basic operations for the on-board annunciator (touchpad) and SK-5235 are described in Table 5-1. If you are using an annunciator key or the Flex Door option, you are not required to enter a code for operator level functions.

If no keys are pressed for 4 minutes while in program mode, the system will time out and resume normal operation.

Table 5-1: Basic Panel Operations Using the On-Board Annunciator and the SK-5235

How To	Do This			Comments
	Press	Display Message	Press*	
Test the system	0 ENTER	System Test Enter Code	Enter Code	System performs a display lamp test, a communication test, and displays the firmware number and revision. See 5.2.1 for an example.
Reset Alarms	1 ENTER or RESET	Reset Alarm Enter Code	Enter Code	Resets system.
Clear History	2 ENTER	Clear History Enter Code	Enter Installer Code	Clears event history of all events.
Reset the Dialer	3 ENTER	Reset Dialer Enter Code	Enter Code	Resets the dialer and aborts the call to central station.
Call Computer to Up/ Download	4 ENTER	Call Computer Enter Code	Enter Installer Code	Will dial the programmed phone number for the computer to initiate an up or download.
Display History Events	5 ENTER	History Events Enter Code	Enter Code	Displays panel history, including alarms, supervisories, troubles, reports, time and date changes, etc.
Show Status	6 ENTER	Show Status Enter Code	Enter Code	View existing system status. List Alarms first, supervisories and then troubles.
Silence Troubles or Alarms	7 ENTER or SILENCE	Silence Enter Code	Enter Code	
Set the Date	8 ENTER	Set Date Enter Code	Enter Code	Enter 8 digits for the date. For example, to set the date 08/31/1999 enter 08311999. Press # to clear incorrect entries.
Set the Time	9 ENTER	Set Time Enter Code	Enter Code	Enter the time in 24 hour increments. For example, 1:00 pm = 13:00.
Disable/Enable a Zone	Zone # + *	Disable Zone Enter Code	Enter Code	Repeat the process to enable the zone.
Disable/Enable NAC	10 NAC # *	Disable NAC Enter Code	Enter Code	Repeat the process to enable the NAC.
Conduct a Fire Drill	20 ENTER	Fire Drill Enter Code	Enter Code	To End the Fire Drill press RESET then code.
Reset Detectors	21 ENTER	Rst Smk Pwr Enter Code	Enter Code	Resets all smoke detector power.
Walk Test the System	22 ENTER	Walk Test Enter Code	Enter Code	To End the Walk Test press REST.
Menu of Options	Press ▽ or △ to scroll through list.			To exit press ENTER or wait 15 seconds.

** Code = any valid operator or installer code.*

5.2.1 View Control Panel Firmware Number and Revision

When 0 ENTER and the code is entered The system will perform a display lamp test and a communication test.

Also displays Firmware number and revision as shown in Figure 5-3.

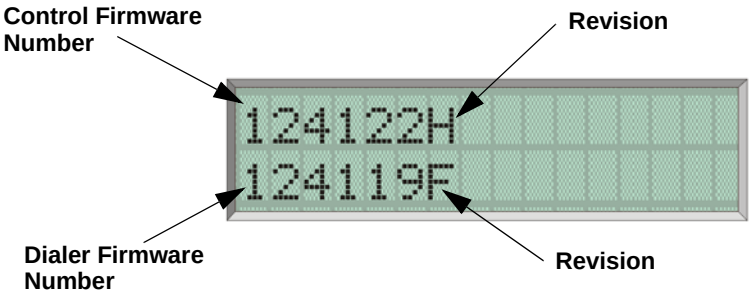


Figure 5-3 Firmware Numbers and Revisions

5.3 Acknowledge Operation

To display an event, first press the ENTER, while the event is displayed the event can be acknowledged by pressing the ENTER button again. No code is required to acknowledge events. The status LEDs (Alarm, Supervisory and Trouble) will flash when an un-acknowledged alarm, supervisory, or trouble condition exists.

After each event has been acknowledged its associated LED (Alarm, Supervisory, or Trouble LED) stop flashing and turn on steady. When viewing system status the LCD displays “Acked” for each individual event once has been acknowledged. The control panel piezo will silence after all alarms have been acknowledged.

Note: The control panel piezo will continue to sound for Supervisories and Troubles even after the event has been acknowledged. Supervisories and troubles will silence once the event is restored.

After the event is acknowledged an event is added to the event history buffer. Acknowledged events in the history buffer will be preceded with an asterisk “*”.

5.4 LED Indicators

Five light emitting diodes (LEDs) appear in the SK-5208 built in annunciator and remote annunciator. The chart below explains the meaning of these LEDs.

Table 5-2

LED	Status	Condition
ALARM (red)	Off	Normal condition
	On	System in alarm and all alarms have been acknowledged.
	Flashing	LED will flash when a alarm condition exists that has not been acknowledged.
SUPERVISORY (yellow)	Off	Normal condition
	On	If a supervisory condition exist on the system.
	Flashing	LED will flash when a supervisory condition exists that has not been acknowledged.
TROUBLE (yellow)	Off	Normal condition
	On	Trouble condition exists
	Flashing	LED will flash when a trouble condition exists that has not been acknowledged.
SILENCED (yellow)	Off	Normal condition.
	On	Alarm or trouble condition has been silenced but condition still exists.
AC (green)	On	Panel is running on AC (normal condition); standby battery fully charged.
	Off	Panel has lost all power.
	Flashing	Panel is running on battery power only or AC power only.

5.5 Releasing Operation

This system can perform two types of releasing operation, cross alarm releasing, and double interlock releasing operations. Install in accordance with NFPA 72 paragraphs 3-8.3.2.3.3 and 3-8.3.2.3.3.2.

5.5.1 Cross Alarm Operation

The fire alarm control panel has two cross alert groups to select from, Cross Alert A and Cross Alert B that accommodate releasing water systems.

When two or more zones are programmed to one of these groups then a single activation of one zone in the group will cause a cross alert condition at the local annunciator and the pre-alert signal output for that group. (**Note:** the local annunciator and the pre-alert signal will continue to sound until it is silenced or until another cross alarm zone within the same group activates.) If a second zone in the same group activates then both will become active alarm zones.

If the second zone is not in the same group as the first zone then the cross alert zone will remain in the cross alert condition and the system will signal the second by how it is programmed.

The fire alarm control panel has four NAC and relay options that allow NACs and relays to be selected to indicate the cross alert condition and assign release circuits for each group.

5.5.1.1 Default NAC Settings for Releasing

When “Cross Alert A” is selected in “Zone Options” the NACs are defaulted to the following settings:

NAC 1 Releasing Circuit
NAC 3 Pre-Alert Signal Circuit
NAC 4 General Alarm Circuit

When “Cross Alert B” is selected in “Zone Options” the NACs are defaulted to the following settings:

NAC 2 Releasing Circuit
NAC 3 Pre-Alert Signal Circuit
NAC 4 General Alarm Circuit

Table 5-3: Cross Alarm Operation

Inputs	Output Results							
Cross Zone 1		x		x		x		x
Cross Zone 2			x	x			x	x
Pull Station					x	x	x	x
	Normal	**Pre-Alert**	**Pre-Alert**	**Release and General Alarm**	**Release and General Alarm**	**Release and General Alarm**	**Release and General Alarm**	**Release and General Alarm**

A Model 7641 EOL resistor/diode assembly is required when connecting the FACP to releasing solenoids. The 7641 allows the FACP to supervise the wiring between its NACs and the releasing solenoid.

Table 5-4: Approved Releasing Solenoids

Manufacturer	Part Number	Rating
Asco	T8210A107	24 VDC, 16.8 W
	8210G207	24 VDC, 10.6 W

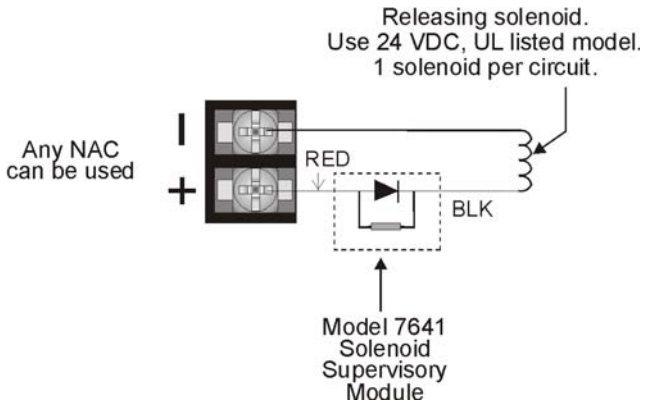


Figure 5-4 Solenoid Wiring Configuration

Do not mix cross alarming zones with smoke verification zones. There must be at least two automatic detection devices in each protected space. Spacing must be reduced to 0.7 tines the linear spacing in accordance with NFPA72. See Section 4.2.1 for zone option programming.

Figure 5-5 is an example of how cross alarming may be programmed.

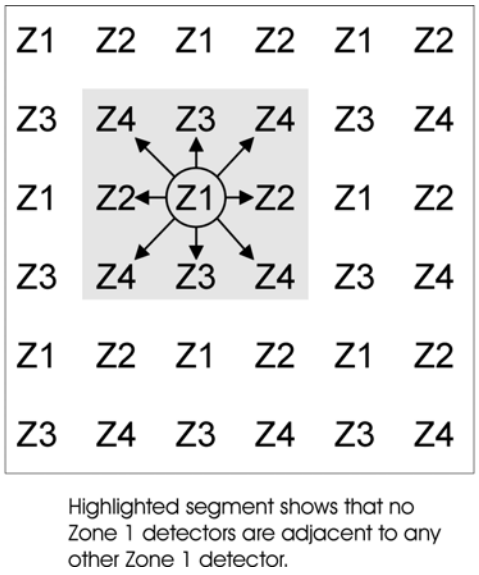


Figure 5-5 Example Showing Smoke Detector Cross Alarm Application

5.5.2 Double Interlock Releasing Operation

A typical double interlock releasing system would be programmed with a minimum of two zones selected for "Cross Alert A", one zone selected as "Man. Release A", and one selected as "Interlock A". Additional zones can be selected as Cross Alert or Manual Release.

This double interlock system requires both cross alert and manual release verification zones. A single manual release and interlock zone can be used without any cross alert zones. In this system configuration an active manual release and the interlock zone is required to initiate the release.

Table 5-5 illustrates what will cause a Pre-alert, General Alarm, and a Release.

Table 5-5: Double Interlock Operation

Inputs	Output Results															
Cross Zone 1		X		X		X		X		X		X		X		X
Cross Zone 2			X	X			X	X			X	X			X	X
Manual Release A					X	X	X	X					X	X	X	X
Interlock									X	X	X	X	X	X	X	X
	Normal	**Pre-Alert**	**Pre-Alert**	**General Alarm**	**General Alarm**	**General Alarm**	**General Alarm**	**General Alarm**	**General Alarm**	**General Alarm**	**General Alarm**	**Release and General Alarm**	**Release and General Alarm**	**Release and General Alarm**	**Release and General Alarm**	**Release and General Alarm**

If no zones are selected for "Interlock" verification then the system will operate as a standard cross alarm releasing system (see Section 5.5.1).

See Section 5.5.1.1 for default NAC settings for releasing systems.

5.6 Smoke Alarm Verification

Figure 5-6 illustrates how the Smoke Alarm Verification cycle operates.

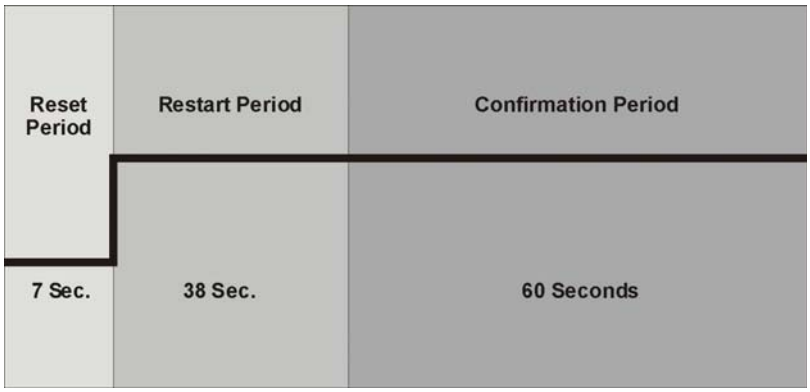


Figure 5-6 Smoke Verification Cycle

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

5.7 System Testing

This section describes operation of fire drills, zone testing, and the 24-hour automatic test.

5.7.1 Fire Drills

Fire drills can be run from either the on-board touchpad or the Model SK-5235 Remote Annunciator. To initiate a fire drill, press 20 ENTER + Code. The system will sound an alarm and report a fire test. To end the fire drill, press RESET + Code.

5.7.2 Walk Test

The walk test is designed to be used for on-site testing only.

To enter walk test mode, press 22 ENTER + Installer Code.

Select the following test parameters:

Test Feature	Enable or Disable	Comments
Use Verify:	Yes or No	If Yes is selected then this option will be enabled during walk test. If No is selected this option will be disabled during walk test.
Mapped Rlys:	Yes or No	
Mapped NACs:	Yes or No	

The LCD will indicate that you are in walk test mode. When a zone is tripped, the SK-5208 will activate the bell outputs for approximately six second and will cycle smoke power off and on for the programmed time interval. When smoke power is restored, there is a two-second power up delay before the zone will respond to additional test inputs.

The system will time out and resume normal operation in 30 minutes if no keys are pressed or no zones are tripped during the walk test.

To exit walk test mode, press RESET.

5.7.3 Automatic Self Test

The Model SK-5208 lets you select the time of day and the interval that the automatic that the test signal will be sent to the central station. See Sections 4.2.10 and 4.3 for additional information on automatic test time.

5.7.4 Watchdog Circuit

During normal operation, the control microprocessor of the SK-5208 is constantly running programs to check inputs and carry out other routine functions. If the program should ever stop running, the watchdog circuit will automatically detect this and attempt to resume normal operation by resetting the microprocessors. Each time the watchdog circuit initiates a reset signal, it will also sound the audible trouble signal for approximately four seconds.

5.8 Communicating with a Programming Computer

An installer at the panel site can initiate communications between the panel and a computer running the Silent Knight Software Suite SKSS. In order for this communication to function properly both the computer (running the software) and the control panel must have matching computer account numbers and computer access codes.

Before you program in this location you should know how your control panel will communicate with the downloading computer, either through direct connect (RS232) or via the phone lines (Internal Modem).

5.8.1 Programming From a Remote Computer Location

The panel can communicate with a Up/Downloading computer using two methods. The control panel can call the programming computer or the programming computer can call the control panel.

The programming information for the control panel will be stored in the queue of the downloading software SKSS P/N 5660. This data packet will have been pre-configured for the control panel that you are about to program. SKSS is available to download on www.silentknight.com. For more information also see *SKSS Installation Manual* P/N 151240.

5.8.1.1 Having the Control Panel Call the Remote Computer

If the panel initiates the call to a downloading computer, a phone number must be programmed in the computer accounts area (see Section 4.2.8).

To initiate communication:

1. From the SKSS Up/Downloading software File Menu, select the download or upload menu item you want to perform.
2. In the appropriate locations in the dialog box, enter your information.
3. When ready, select “Wait for Call” in the “Call how often” drop down list.
4. Press “OK” to stage SKSS for an Up/Download.
5. Press the 4 ENTER or the ^ up arrow until the display reads Call Computer.
6. Enter the Installer Code.

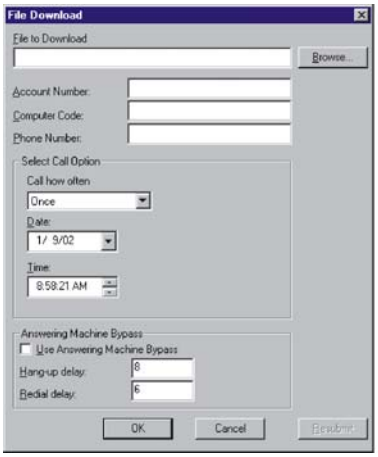
The control panel will then begin the communication process with the remote computer.

5.8.1.2 Having Remote Computer Call the Control Panel

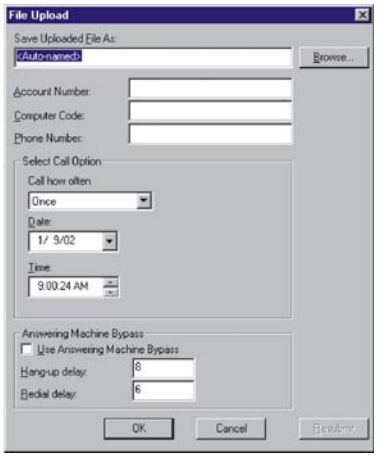
If the computer initiates the call then answering machine bypass (see Section 4.2.8) may need to be selected.

To initiate communication:

1. From the SKSS Up/Downloading software File Menu, select the download or upload menu item you want to schedule.



Download Menu



Upload Menu

2. In the appropriate locations in the dialog box, enter your selections for the following options:

   File Name:To download, select the file that you want to download. To upload assign a name to the file that will be uploaded from the panel. You can use the Browse option to select from the list of available files. If

you do not select a name for the file, it will be automatically named with the panel model and the date and time of the download.

For downloads, the latest saved version of the file will be sent. This means if the file you want to send is currently open and has been changed, save it before you attempt to download.

Account

Number:Enter the panel account number.

Computer Code:Enter the code that allows access to the panel from a PC.

Phone Number:Enter the panel phone number.

Call Option:Select how often and when the call should be placed.

Answering:Select the preferred options if the phone line used by the control panel has an answering machine installed. This feature is not used when connecting directly to a panel.

3. Click **OK** to begin downloading/uploading or to post the job to the Queue.

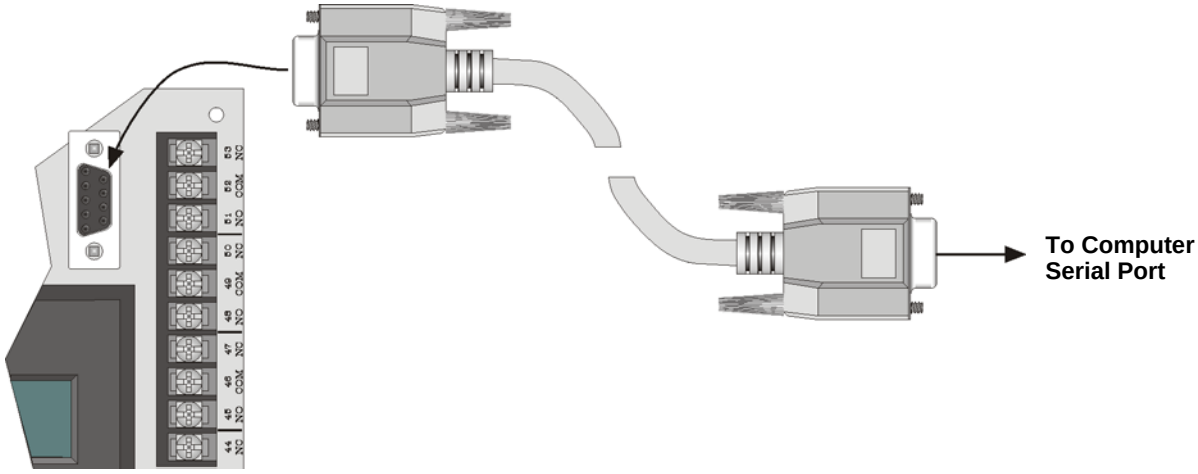
5.8.2 Directly Connecting to a Programming Computer

The control panel can be up or downloaded from a computer that is directly connected to the control panel.

Note: This connection is to be used as a temporary connection and should be disconnected after programming is completed.

To initiate communication:

1. Connect a serial cable from the control panel to the computer.



2. Make sure SKSS software is running and that the up/download task is in the queue, by selecting the Call Option to “Wait for Call”.
3. Initiate an up/download from SKSS

The control panel will then begin the communication process with the computer.

Section 7
Troubleshooting

This section of the manual contains information that can be used to isolate and correct installation problems encountered in the field.

7.1 System Error Messages

Table 7-1 contains a list of possible error messages along with their meaning and possible solution.

Table 7-1: Error Messages

Error Message	Description	Solution
FLASH Defaulted	On power up the SK-5208 will check the flash for an "option record".	If an "option record" is not found during power up, one will be created and the display will indicate "Flash Defaulted" for approximately one second.
Earth Fault Trb	The SK-5208 has built-in earth ground fault detection that will detect an earth ground fault connection between earth and any panel terminal. When an earth ground fault is detected the SK-5208 display will indicate Earth Fault Trb. The SK-5208 will also add two events to the history buffer Expand Trb 38 and Earth ###. The Earth ### is a debug event number between 0 and 255.	See Section 7.2 for earth ground fault troubleshooting procedure.
Key BUS Trouble	This message will display when communication is lost between the 5235 and the control panel.	Check for a short or an open on either the SKI or SKO terminals.
NAC # Trb	This message indicates that a short or an open is detected on a Notification Appliance Circuit. The # indicates which NAC has the trouble.	Check for a short or an open on the indicated NAC wire run.
Remote # Trb	Each 5235 can be programmed to be supervised (see Section 4.2.2). If the SK-5208 is unable to communicate with the 5235 it will indicate this message. # indicates the ID number of the faulted touchpad.	Check the wire connections between the indicated touchpad and the control panel.
5217 Trb #	If the SK-5208 is unable to communicate with a 5217 expander it will display this message. The # indicates the ID number of the expander in trouble.	Check all wire connections between the control panel and the 5217 expander in trouble.
5280 Trb #	If the control panel is unable to communicate with a SK-5280 Status Display Module this message will be displayed. # indicates the ID number of the SK-5280 in trouble.	Check all wire connections between the control panel and the SK-5280 in trouble.
Smk Pwr Trb	Smoke power terminals 11, 14, 17, and 20 are supervised. If the voltage between circuit ground (terminals 9, 22, 26, 33) and loop power is less than 20VDC this message will display.	This may occur when the maximum current draw for the initiation circuit is exceeded. See Section 3.11 for initiation circuit current requirements.
5235 Pwr Trb	The power terminal for the 5235 is supervised and a trouble indication will occur if the voltage between circuit ground and terminal 32 drops below 20 VDC.	This may occur if the maximum current rating (1Amp) for this circuit is exceeded.

Table 7-1: Error Messages

Error Message	Description	Solution
Aux Pwr Trb	The SBUS power terminal (27) is supervised and will display this message when the voltage between SBUS power and circuit ground drops below 20 VDC.	This may occur if the maximum current rating (1Amp) for this circuit is exceeded.
AC Trb	This message is displayed when the AC voltage drops below 98 VAC.	Check the AC power connection. This report will be sent to the central station after the AC delay time has expired. See Section 4.2.10 to program AC delay time.
Battery Trb	This message will be displayed when the battery voltage drops below 20.4 VDC under load. The control panel performs a load test every minute.	Check battery connection. Verify that the control panel has AC power.
Ph Line # Trb	This message is displayed when the phone line voltage drops below 2 VDC or can not supply a minimum of 4 mA of current. The # indicates which phone line is in trouble.	
Data Lost	This event will be reported to the central station if the reporting buffer fills. This may occur if more that 24 events need to be reported. When the report buffer is full and additional events are added to the report buffer, the oldest event will be overwritten and the data lost event will be added.	
Com # Trb	The SK-5208 must use alternating phone lines (according to NFPA) when reporting auto tests and manual tests. If the control panel can not communicate using the selected phone line, the Com # Trb message will be displayed. The # indicates which line had the trouble.	The trouble condition will clear after the control panel is successful in communicating using the phone line.

7.2 Earth Ground Fault Troubleshooting

An Earth Fault Trb indicates that the panel has detected a short between any terminal on the panel and earth ground. To determine the location of the short, place a DC volt meter with ground on terminal 22 (circuit ground) and positive on any of the screws that secure the circuit board to the cabinet (earth ground).

A typical meter reading should alternate between 0 VDC and 11.7 VDC. Any other voltage will put the panel into Earth Fault Trb (see also Table 7-1). Remove and leave off field wiring from the panel until the meter alternates between 0 VDC and 11.7 VDC.

When an Earth Fault is indicated at the touchpad two messages will be added to the event history buffer, Earth Fault 38 and Earth ###. This information can be very helpful to identify where an earth ground fault exists in an intermittent earth ground situation.

If the Earth ### is lower than 133 this typically would indicate an earth ground short to a low voltage source (13.1 VDC or less). For example, any circuit ground terminal or zone input terminal.

If the Earth ### is higher than 134 this typically would indicate an earth ground to a higher voltage source (13.1 VDC or higher). For example, any circuit power, standby battery, phone lines, or AC power.

7.3 Earth Fault Resistance

Table 7-2 list the earth fault resistance values for each applicable terminal on the FACP.

Table 7-2: Earth Fault Resistance Values by Terminal

Function	Terminal Number	Terminal Label		Earth Fault Resistance Value (in Ohms)
Zone 1 input.	1	A	Z1	0K
	2	B		0K
	3	C		0K
	4	D		0K
Zone 2 input	5	A	Z2	0K
	6	B		0K
	7	C		0K
	8	D		0K
Ground	9	GND		0K
Zone 3 input	10	Z3		0K
Power (Zone 3 & 4)	11	PWR		0K
Zone 4 input	12	Z4		0K
Zone 5 input	13	Z5		0K
Smoke Power	14	PWR		0K
Zone 6 input	15	Z6		0K
Zone 7 input	16	Z7		0K
Smoke Power	17	PWR		0K
Zone 8 input	18	Z8		0K
Zone9 input	19	Z9		0K
Smoke Power	20	PWR		0K
Zone 10 input	21	Z10		0K
Ground	22	GND		0K
AC Power Connections	23	B		NA
	24	Earth		NA
	25	W		NA
SBUS Connections	26	GND		0K
	27	+24DC		0K
	28	A		0K
	29	B		0K
Remote Annunciator Connections	30	SKI		0K
	31	SKO		0K
	32	PWR		0K
	33	GND		0K
Notification Appliance Circuit 4	34	+	NAC4	0K
	35	_		0K
Notification Appliance Circuit 3	36	+	NAC3	0K
	37	_		0K
Notification Appliance Circuit 2	38	+	NAC2	0K
	39	_		0K
Notification Appliance Circuit 1	40	+	NAC1	0K
	41	_		0K

Silent Knight Fire Product Warranty and Return Policy

General Terms and Conditions

- All new fire products manufactured by Silent Knight 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 Silent Knight for credit or repair require a RMA (Return Authorization) number. Call Silent Knight 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.
- Silent Knight 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 to Silent Knight must be sent freight pre-paid. After product is processed, Silent Knight will pay for shipping product back to customer via UPS ground.
- Return the 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**. Silent Knight 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 Silent Knight repair charge for that model.

Advanced Replacement Policy

- Silent Knight 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 Silent Knight distributor or call 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 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.
- Repairs and returns should be sent to:
  Silent Knight / Honeywell
  Attn: Repair Department / RA Number_____
  12 Clintonville Road
  Northford, CT 06472 USA

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.

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SILENT KNIGHT by Honeywell

Model SK5208 Basic Operating Instructions

These Instructions must be framed and displayed next to the SK-5208 panel in accordance with NFPA 72 fire code for Local Protected Fire Alarm Systems.

Operation	Task to Perform
Test the system	Press 0 ENTER them enter a code if prompted. The system will perform a display lamp test and a communication test. Displays Firmware Revisions.
Reset Alarms	Press 1 ENTER or RESET then enter a code if prompted.
Reset the Dialer	Press 3 ENTER, then enter a code if prompted Resets the dialer and aborts the call to central station.
Display History Events	Press 5 ENTER then enter a code if prompted. Displays the panel history, which includes alarms, supervisories, troubles, reports, time and date changes, etc.
Show Status	Press 6 ENTER then enter a code if prompted. View existing system status. List Alarms first, supervisories and then troubles.
Silence Troubles or Alarms	Press 7 ENTER or SILENCE then enter a code if prompted. Silence LED will light.
Disable/Enable a Zone	1. Press Zone # + * 2. Enter Code. Repeat the process to enable the zone.
Disable/Enable NAC	1. Press 1 0 NAC # + * 2. Enter Code. Repeat the process to enable the NAC.
Conduct a Fire Drill	1. Press 2 0 ENTER then enter a code 2. Press RESET then code to end the drill.
Reset Detectors	1. Press 2 1 ENTER then enter a code. Resets all smoke detector power.
Walk Test the System	1. Press 2 2 ENTER then enter a code 2. Press RESET to end the Walk Test.
Acknowledge Events	Events can be acknowledged by pressing the ENTER button. No code is required to acknowledge events. The status LEDs (Alarm, Supervisory and Trouble) will flash when an un-acknowledged alarm, supervisory, or trouble condition exists. After each event has been acknowledged its associated LED (Alarm, Supervisory, or Trouble LED) stop flashing and turn on steady. When viewing system status the LCD displays “Acked” for each individual event once it has been acknowledged. The control panel piezo will silence after all alarms have been acknowledged. **Note:** The control panel piezo will continue to sound for Supervisories and Troubles even after the event has been acknowledged. Supervisories and troubles will silence once the event is restored. After the event is acknowledged an event is added to the event history buffer. Acknowledged events in the history buffer will be preceded with an asterisk “*”.

LED Meanings

LED	Status	Condition
ALARM (red)	Off	Normal condition
	On	System in alarm.
	Flashing	LED will flash when a alarm condition exists that has not been acknowledged.
SUPERVISORY (yellow)	Off	Normal condition
	On	If a supervisory condition exist on the system.
	Flashing	LED will flash when a supervisory condition exists that has not been acknowledged.
TROUBLE (yellow)	Off	Normal condition
	On	Trouble condition exists
	Flashing	LED will flash when a trouble condition exists that has not been acknowledged.
SILENCED (yellow)	Off	Normal condition.
	On	Alarm or trouble condition has been silenced but condition still exists.
AC (green)	On	Panel is running on AC (normal condition); standby battery fully charged.
	Off	Panel has lost all power.
	Flashing	Panel is running on battery power only or AC power only.

PN 151214 Rev B
ECN 14-00

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