

3.5 Board Assembly Diagram

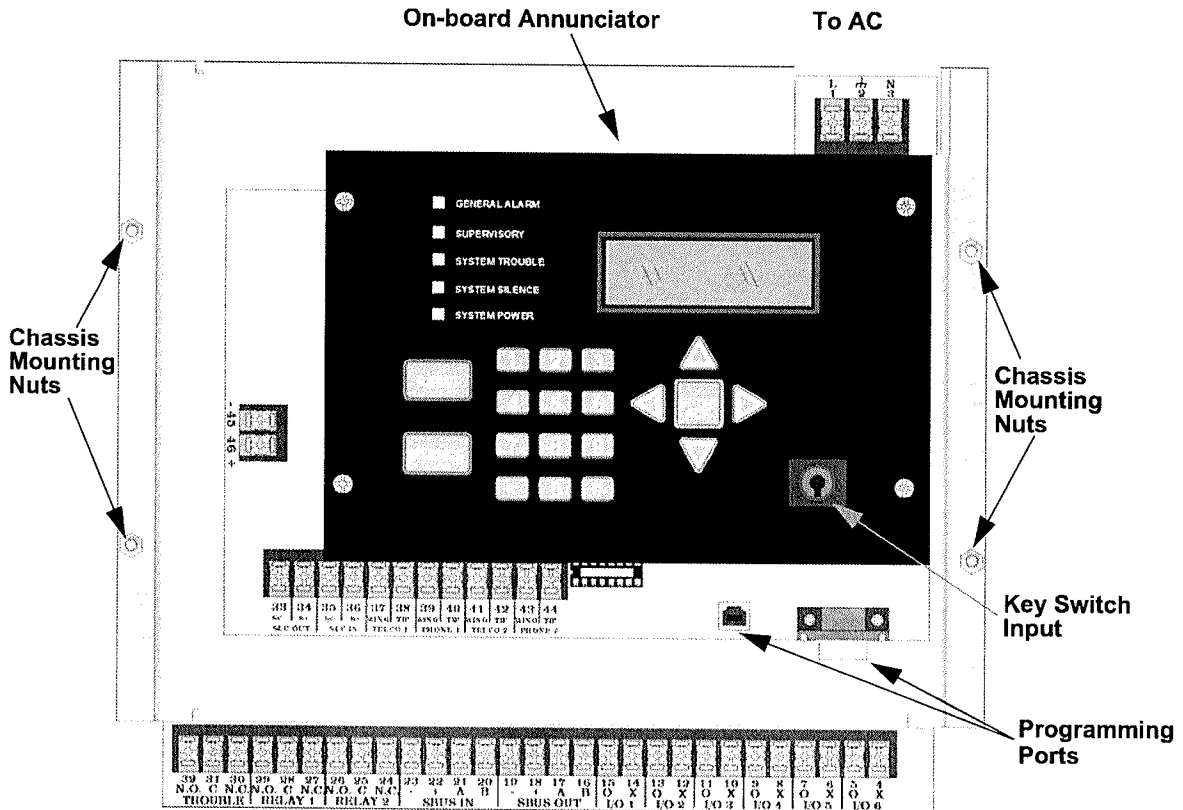


Figure 3-2 Model 5820XL / 5820XL-EVS Assembly

Figure 3-2 shows the circuit boards, metal housing and annunciator that attach the 5820XL / 5820XL-EVS assembly to the cabinet. If you should need to remove the board assembly for repair, remove the four mounting nuts which hold the assembly in the cabinet. Then lift the entire assembly out of the cabinet. Do not attempt to remove the circuit boards from the metal bracket.

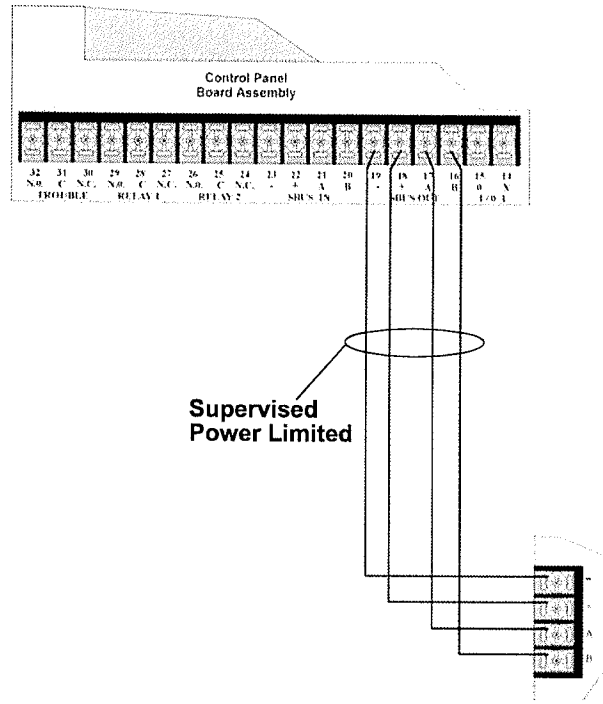


Figure 4-8 SBUS Class B Wiring

4.5 5860 Remote Annunciator Installation

The optional Model 5860 Remote Annunciator, shown in Figure 4-9, performs the same functions as the on-board annunciator. It can initiate and end fire drills with a single key press and view event history by alarms, supervisories, or troubles. Up to 12 annunciators can be added to the IntelliKnight 5820XL / 5820XL-EVS system.

Note: The EVS-RCU contains a 5860 and counts toward one of the eight annunciators.

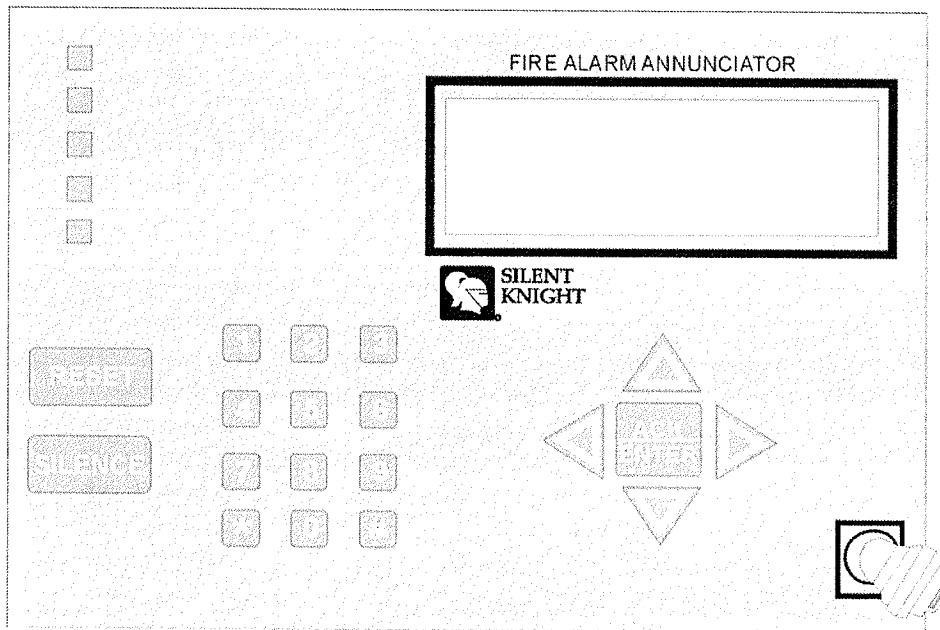


Figure 4-9 Model 5860 Remote Annunciator, Front View

Section 8

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.

Note: See Section 7.9 for information on how to modify user access code profiles.

8.1 User and Installer Default Codes

User Code (factory-programmed as 1111).

Installer Code (factory-programmed as 5820).

8.2 Annunciator Description

Figure 8-1 shows the annunciator that is part of the control panel board assembly.

Five LEDs indicate system status.

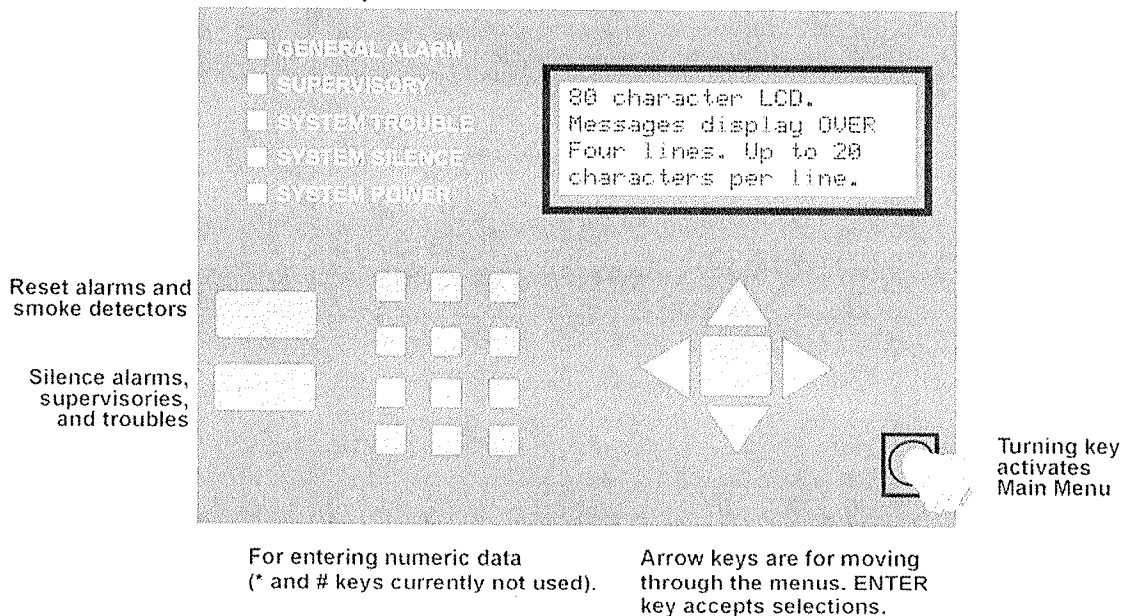


Figure 8-1 Control Panel Annunciator

8.2.1 LCD Display

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.

8.2.2 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). A custom message can be created that will display instead of

the internal (default) message. See Section 7.6.7 for information on customizing the banner.

Text of Internal Banner:

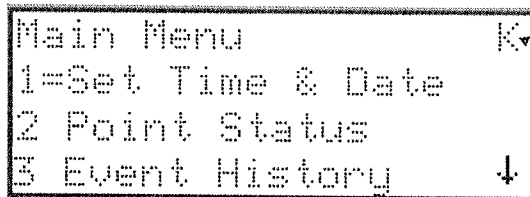
Custom Banner example:



Figure 8-2 Banner Display Examples

8.3 Key Operation


The key on the control panel board assembly is for accessing the Main Menu. The key is activated when it is turned once to the right (clockwise). If the key has been used to activate the menu, it must be turned counter-clockwise to exit the menu.



This icon indicates that the key is being used to access the user menu. (You must return the key to the vertical position to exit the menu.)

Figure 8-3 Using a Key to Access the Main Menu

8.4 Menu System

The control panel is easy to operate from the Main Menu. To view the Main Menu press the ENTER or  button on the control panel or remote annunciator, then turn the firefighters key clockwise or enter your access code. The Main Menu will appear as shown in Section 8.4.1. Select the desired option. If you have entered a code or firefighters key does not have access to the menu item you have selected the following display message will appear:

*-Access denied.-
Entered PIN does not
allow access to this
function.*

You must enter an access code with the correct profile settings to gain access to that menu item.



The control panel supports up to 20 access codes. The profile for each access code (or user) can be modified through the programming menu option (see Section 7.9 for access code programming).

8.4.1 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, Dialer Test, Clear History Buffer, and Manual Dialer Reset.
2- Point Functions	Enable/disable points, Point Status, Set SLC Address, Device Locator, and I/O Point Control.
3- Event History	Display event history on the LCD. See Section 8.5.4 for more information.
4- Set Time & Date	Set time and date for the system.
5- Printer Options	Options for controlling a printer if attached to the system. If a printer is used, the Model 5824 serial/parallel interface module must be used.
6- Reset Items	Cancel any attempt to call the central station. Any calls awaiting additional attempts will be aborted.
7- Program Menu	Brings up a set of menus for programming the panel, including changing access codes. These options are described in detail in Section 7.
8- System Info	View system information, including model number, serial number, revision number and date.
9- Up/Download	Initiate communication between the panel and a computer running the Silent Knight Software Suite.

8.4.2 Using the Menus



To move through the menus:	Use the  or  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 (Enter key) if the option has the = symbol next to it.

8.5 Basic Operation

8.5.1 Setting Time and Date

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

8.5.2 Disable / Enable a Point

1. From the Main Menu, select 2 for Point Functions.
2. Select 1 for Disable/Enable Point. A list of modules displays.
3. Use the  or  arrow to move through the list. Press ENTER to select the module where the point you want to disable/enable is located. Select the point to disable or enable on the module. A description of the point should display. The fourth line of the screen should show "NORMAL" (meaning that the point is currently enabled) or "DISABLED" (the point is currently disabled). Press the right arrow to toggle between NORMAL and DISABLE.

8.5.2.1 Disable / Enable NACs by Template

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

8.5.3 Disable / Enable NACs by Group

1. Select 1 for Disable/Enable Pt.
2. Select 3 to Disable NACs by group or 4 to Enable NACs by group.
3. Use the Up or Down arrow to move through the list of groups. Press ENTER to select the group highlighted.

8.5.3.1 Disable / Enable Zone Points

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

8.5.4 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 begins deleting, starting with the oldest events.

If a printer is attached to the system (via a Module 5824 serial/parallel interface module), you can print event history (see Section 8.5.18).

The 5660 SKSS or 5670 SKSS can be used to retain more than 1000 events and to create event history reports.

8.5.5 To clear the event history

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

8.5.6 Conduct a 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.

8.5.7 Conduct an Indicator Test

The indicator test checks the annunciator LEDs and the PZT sounder.

1. From the Main Menu, press 1 for System Tests.
2. Press 2 for Indicator Test. The system turns on each LED and beeps the PZT. A problem is indicated if any of the following occurs:
 - An LED does not turn on
 - You do not hear a PZT beep

The test will time out after 15 minutes or you can press any key on the annunciator to end the test manually.

When the test ends, you will be returned to the System Test Menu.

8.5.8 Conduct a Walk Test

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 Report. The LCD will display “WALK TEST STOPPED” on Line 1 and “ENTER = start test” on Line 3. Enter the time period you wish the NAC circuit to be active for each alarm (06 to 180 seconds). If you select this option, central station reporting will be disabled while the test is in progress.

Or

Select 4 for Walk Test-with Report. The LCD will display “WALK TEST STOPPED” on Line 1 and “ENTER = start test” on Line 3. Enter the time period you wish the NAC circuit to be active for each alarm (06 to 180 seconds). If you select 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. 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.

8.5.9 Conduct a Dialer Test

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

8.5.10 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 24 hours until the detector is restored.

Note: For EVS system, pressing silence at an LOC will only silence the System in Control. See Section 9.8.1.

8.5.11 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.

Note: For EVS Systems, pressing reset at an LOC will prompt asking which system to reset.

8.5.12 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 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 8.5.18 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 8-4 will display.

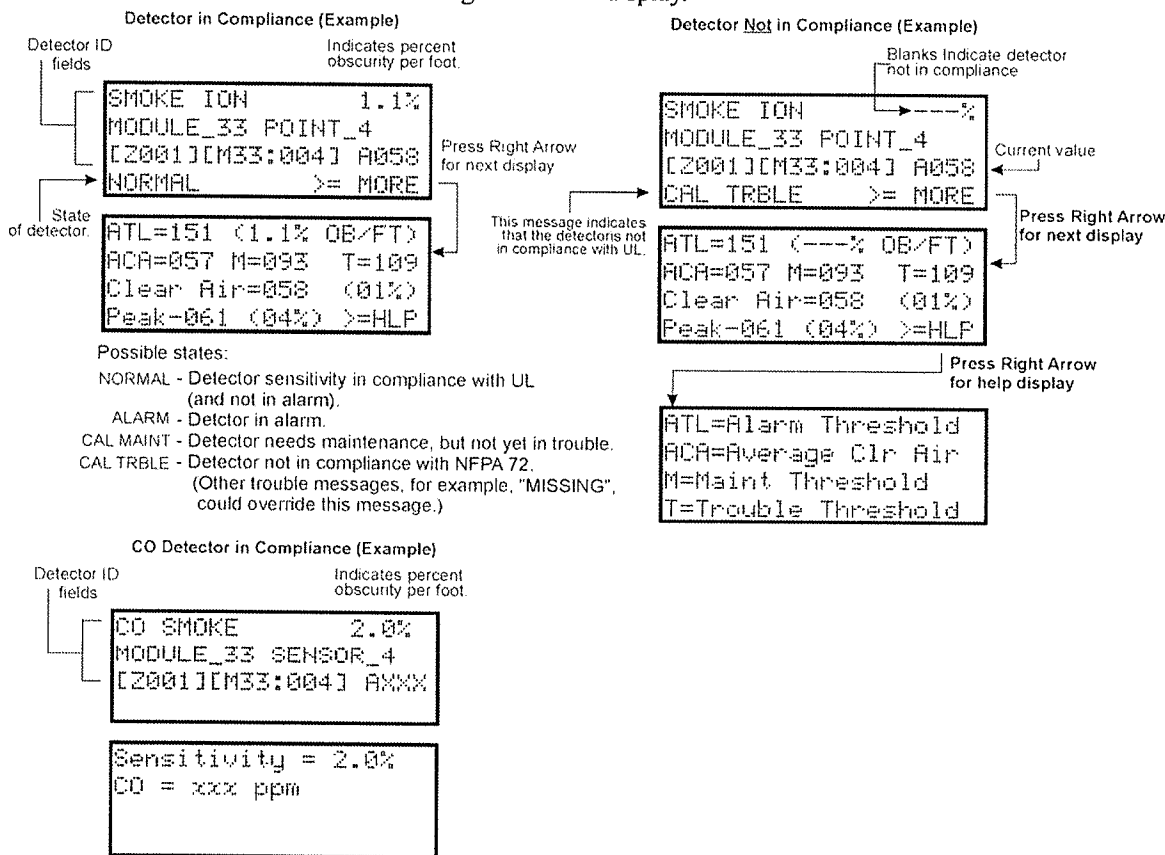


Figure 8-4 Checking Detector Sensitivity Compliance

If a printer is attached to the system (via a 5824 serial/parallel interface module), you can print detector status (see Section 8.5.18).

8.5.13 View Status of a Point

1. From the Main Menu, select 2 for Point Status.
2. 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 8.5.12 for complete information about detector sensitivity compliance.)

8.5.14 View Alarms, Supervisories or Troubles

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

8.5.15 View 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.

8.5.16 Reset Items

From the Main Menu, select 6 for Reset Items.

8.5.16.1 Reset Dialer

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

“Dialer Reset in progress... Please Wait“

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

8.5.16.2 Reset DSP USB

This options allows the user to reset both the DSP Controller and USB interface logic. The LCD will display:

“Dialer Reset in progress... Please Wait“

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

8.5.17 Communicating with a Remote Computer

An installer at the panel site can initiate communications between the panel and a computer running SKSS 5660. You can use this feature to upload a panel configuration. For example, if you have made programming changes to an installation on site using an annunciator, you can send your changes to the computer, so that the central station will have the latest data about the installation. See the software manual for more information (PN 151240).

To initiate communication:

1. From the Main Menu, select 9 for Up/Download.
2. From the next screen that displays, select the communication device. Options are:

- | | |
|----------------------|--|
| 1 = Internal Modem | If you select this option, you will use the panel's built-in modem to call the computer. |
| 2 = RS232 connection | If you select this option, the panel and a computer are both on-site connected via a 9-pin straight-through serial cable. |

3. If you are using the panel's internal modem to communicate, you will be prompted to enter a phone number. If you are communicating via the RS232 connection, a phone number is not needed and this step will be skipped.

If the phone number you will be calling is already displayed, press ENTER. Continue with step 4.

If the phone number you will be calling is not already displayed, enter the number and press ENTER. A phone number can be up to 40 digits long and can contain the following special characters.

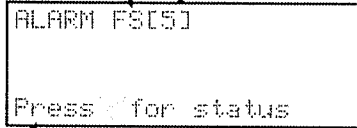


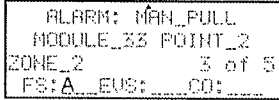

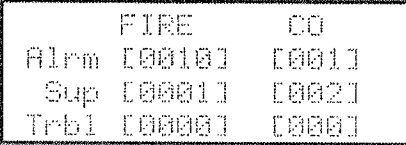
#	Pound (or number) key on the telephone
*	Star key on the telephone
,	Comma (character for 2-second pause)


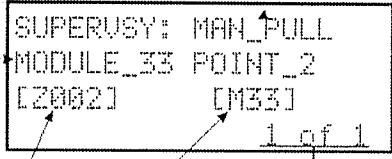



Use the number buttons on the annunciator or the up- and down-arrow keys to select special characters. Special characters begin displaying after "9".


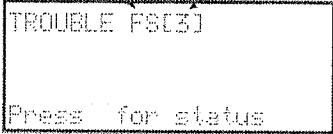

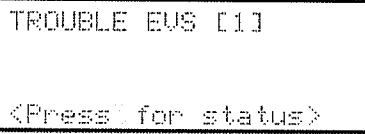
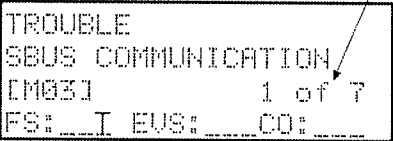
4. You will be prompted to enter an account number. If the account number you want to use is already displayed, just press ENTER to begin communication or view the next screen.
If the account number displayed is not the correct one, enter the account number and press ENTER to begin communication.
5. If you are using the panel's internal modem to communicate, you will be prompted to select a modem speed. Press ENTER on a speed to begin communication.
6. The panel will attempt to communicate with the computer. If communication was established, the upload task you created will be placed in the SKSS 5660 job queue, awaiting processing. When processing is completed, an "Unsolicited Upload" task will appear in the queue.

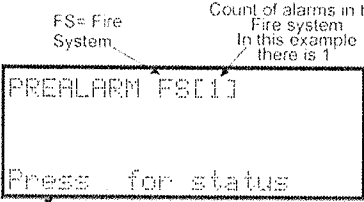
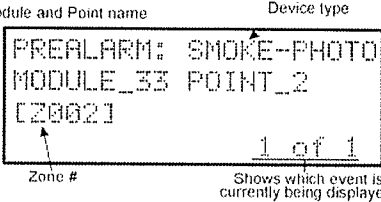
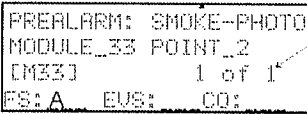
8.6 Operation Mode Behavior

Operation Mode	Occurs When	System Behavior	In This Mode You Can
Normal	No alarm or trouble condition exists and menus are not in use.	<p>SYSTEM POWER LED is on. The All Systems Normal display indicates that the system is in normal mode.</p> <div data-bbox="597 493 1008 642" style="border: 1px solid black; padding: 5px; text-align: center;"> <pre> IntelliKnight Model 6820 ALL SYSTEMS NORMAL 09/24/15 01:45:52PM </pre> </div>	Enter the appropriate code to activate the User or Installer Menu, or rotate the key to activate the User Menu.

Operation Mode	Occurs When	System Behavior	In This Mode You Can
<p>Alarm</p>	<p>A smoke detector goes into alarm or a pull station is activated.</p>	<p>The dialer 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.</p>	<p>Press the down arrow to view the alarm. A screen similar to this one displays.</p>
	<p>CO Detector goes into Alarm.</p>	<p>Count of alarms in the Fire system In this example there are 5.</p> <p>FS = Fire System</p>  <p>Press the down arrow to view the type and location of alarm. (Message alternates with the date/time display.)</p>	<p>Module and Point name Device type</p>  <p>Zone name</p> <p>Shows which event is currently being displayed. In this example, there are 5 alarms, the third is being displayed.</p>
	<p>EVS LOC or point alarm.</p>	<p>CO = CO Detector Count of CO Detectors in alarm on the system In this example there is 1</p>  <p>Press the down arrow to view the type and location of alarm. (Message alternates with the date/time display.)</p>	<p>Device type</p>  <p>3rd line Blinks between time/date & Mod/amp</p> <p>Alarm Count FIRE Alarm Count FIRE Alarm Count FIRE</p>
	<p>If more than 3 categories are active at a single time and EVS is enabled, top screen will display. If EVS in not enabled, it will look like bottom screen.</p>	 	<p>Note: Alarm and Prealarm are combines into single alarm count.</p>

Operation Mode	Occurs When	System Behavior	In This Mode You Can
<p>Supervisory</p>	<p>The system detects a supervisory condition.</p>	<p>The dialer 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.</p>  <p>FS= Fire System Count of supervisors in the Fire system In this example there is 1.</p> <p>Press the down arrow to view the type and location of alarm (Message alternates with the date/time display.)</p>	<p>Press down arrow to view the supervisory condition. A screen similar to this one displays:</p>  <p>Module and Point name Device type</p> <p>Zone # Module and Point name Shows which event is currently being displayed In this example there are 8 trouble, 5 is being displayed</p> <p>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. After sitting idle, events will display in a screen similar to this:</p>
	<p>The system detects a supervisory condition with a CO detector.</p>	 <p>CO = CO Detector Count of supervisors for the CO detectors in the Fire system In this example there is 1</p> <p>Press the down arrow to view the type and location of alarm (Message alternates with the date/time display.)</p>	 <p>Device type</p> <p>3rd line Blinks between time/date & Mod/Amp</p> <p>Alarm Supr TRB Alarm Supr TRB Alarm Supr TRB</p>
	<p>The system detects a supervisory condition with the EVS system</p>		

Operation Mode	Occurs When	System Behavior	In This Mode You Can
<p>Trouble</p>	<p>A system trouble condition occurs.</p>	<p>The dialer 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.</p>	<p>Press down arrow to view the trouble, A screen similar to this one display.</p> 
	<p>Trouble condition with a CO detector</p>	<p>FS= Fire System Count of troubles in the system in this example there are 3</p>  <p>Press the down arrow to view the type and location of trouble condition. (This message alternates with the date/time display.)</p> <p>CO = CO Detector Count of CO detectors in trouble on the system in this example there is 1</p>  <p>Press the down arrow to view the type and location of trouble condition. (This message alternates with the date/time display.)</p>	<p>Type of trouble in this example, the panel does not see a detector that should be on the loop Zone # Shows which event is currently being displayed. In this example there are 8 trouble.5 is being displayed</p> <p>Press SILENCE and enter an access code (or activate the key) to silence the annunciator.</p> <p>Once the trouble condition has been fixed, the system will restore itself automatically. After sitting idle, events will display in a screen similar to this:</p>
	<p>Trouble condition with the EVS system.</p>		 <p>Blinks between time/date & Mod/Ann</p> <p>Alarm Supr TRB Alarm Supr TRB Alarm Supr TRB</p>

Operation Mode	Occurs When	System Behavior	In This Mode You Can
<p>Prealarm</p>	<p>A single detector trips in a 2-Count zone. (2- Count means two detectors must trip before an alarm is reported.)</p>	<p>Touchpad PZT beeps. The LCD displays a screen similar to this one.</p>  <p>Press the down arrow to view the type and location of prealarm (Message alternates with the date/time display)</p>	<p>Press down arrow to view the prealarm. A screen similar to this one displays.</p>  <p>All system operations are available in this mode. After sitting idle, events will display on a screen similar to this:</p>  <p>Alarm Supr TRB Alarm Supr TRB Alarm Supr TRB</p>
<p>Reset (Fire Alarm Only)</p>	<p>The RESET button is pressed followed by a valid code or rotation of the key</p>	<p>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.</p>	<p>Menus are not available during the reset process.</p>
<p>Reset (EVS and Fire)</p>	<p>The RESET button is pressed.</p>	<p>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.</p>	<p>Menus are not available during the reset process.</p>
<p>Silenced (EVS and Fire)</p>	<p>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.</p>	<p>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.</p>	<p>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.</p>



**SILENT
KNIGHT**

by Honeywell

IntelliKnight 5820XL Basic Operating Instructions

These instructions must be framed and displayed next to the 5820XL panel in accordance with NFPA 72 fire code for Local Protected Fire Alarm Systems.

Operation	Keystrokes
Silence Alarms and Troubles	Press silence then rotate the key or enter a code
Reset alarms	Press reset then rotate the key or enter a code.
Conduct a fire drill	<ol style="list-style-type: none"> 1. Rotate the key or Enter the installer code. The panel will automatically go to the main menu. Press 1. 2. Press 1 to select Fire Drill. 3. Press ENTER to begin the drill. To end the drill, press any key. <p>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.</p>
View alarms and troubles	<p>When the system is in alarm or trouble, press Down to view location and type of alarm or trouble.</p> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <pre>Alarm FS [1] Alarm CO [1] Press [Down] For Status</pre> </div> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <pre>ALARM: MAN_PULL ZONE_1 MODULE 34 CKT_6 FS: a CO: a</pre> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <div style="text-align: center;"> <small>Alarm</small> <small>Supr</small> <small>Tro</small> </div> <div style="text-align: center;"> <small>Alarm</small> <small>Supr</small> <small>Tro</small> </div> </div>
View status of point	<ol style="list-style-type: none"> 1. Rotate the key or Enter the installer code. The panel will automatically go to the main menu. Press 2. 2. Press 2 for Point Status. 3. From the list that displays, select the 5815XL module where the point you want to view is located. The screen that displays tells the status of the point including whether detector sensitivity is in compliance (see below).
Check detector sensitivity	<ol style="list-style-type: none"> 1. Rotate the key or enter a code then press ENTER to access the menu. Press 2. 2. Press 2 for Point Status. 3. From the list that displays, select the 5815XL module where the point you want to view is located. 4. The fourth line of the display shows the sensitivity status. <ul style="list-style-type: none"> “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	<ol style="list-style-type: none"> 1. Rotate the key or enter a code then press ENTER to access the menu. Press 4. 2. Make changes in the fields on the screen as necessary. 3. When the time and date are correct, press ENTER.
Enable / Disable point	<ol style="list-style-type: none"> 1. Rotate the key or enter a code to access to access Main Menu. 2. Press 2 to select Point Functions. 3. Press 1 for Disable / Enable Pt. 4. Press 7 for Disable / Enable Pt. 5. Use the Up or Down to move through the list. Then press ENTER to select the module where the point you want to disable/enable is located 6. Enter the point or circuit number that you want to disable/enable. 7. Press the right arrow key to toggle between NORMAL (enable) or DISABLE.
View event history	Rotate the key or enter a code then press ENTER to access the menu, then press 3 to select Event History. Events will display in date order, with most recent events displaying first.
For Service Call:	

Cut Along the Dotted Line