Section 5
Operation

To operate the 5207 you can use either the built-in touchpad or the Model 5230 Remote Annunciator.

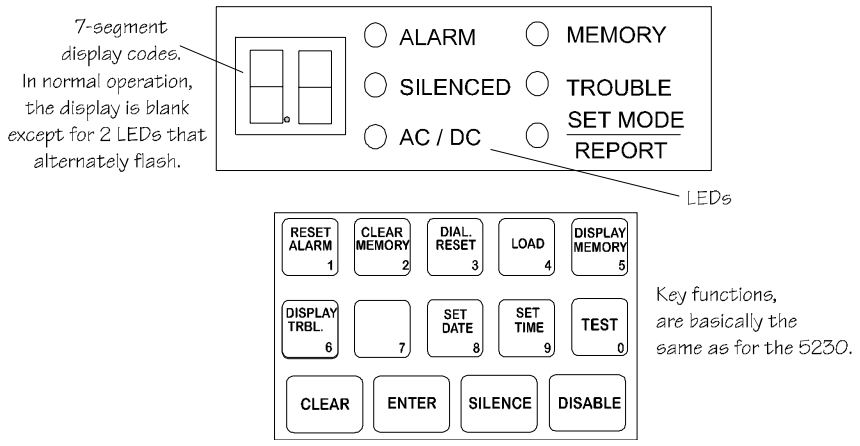

Figure 5-1 Built-in Touchpad (Seven-Segment Display)

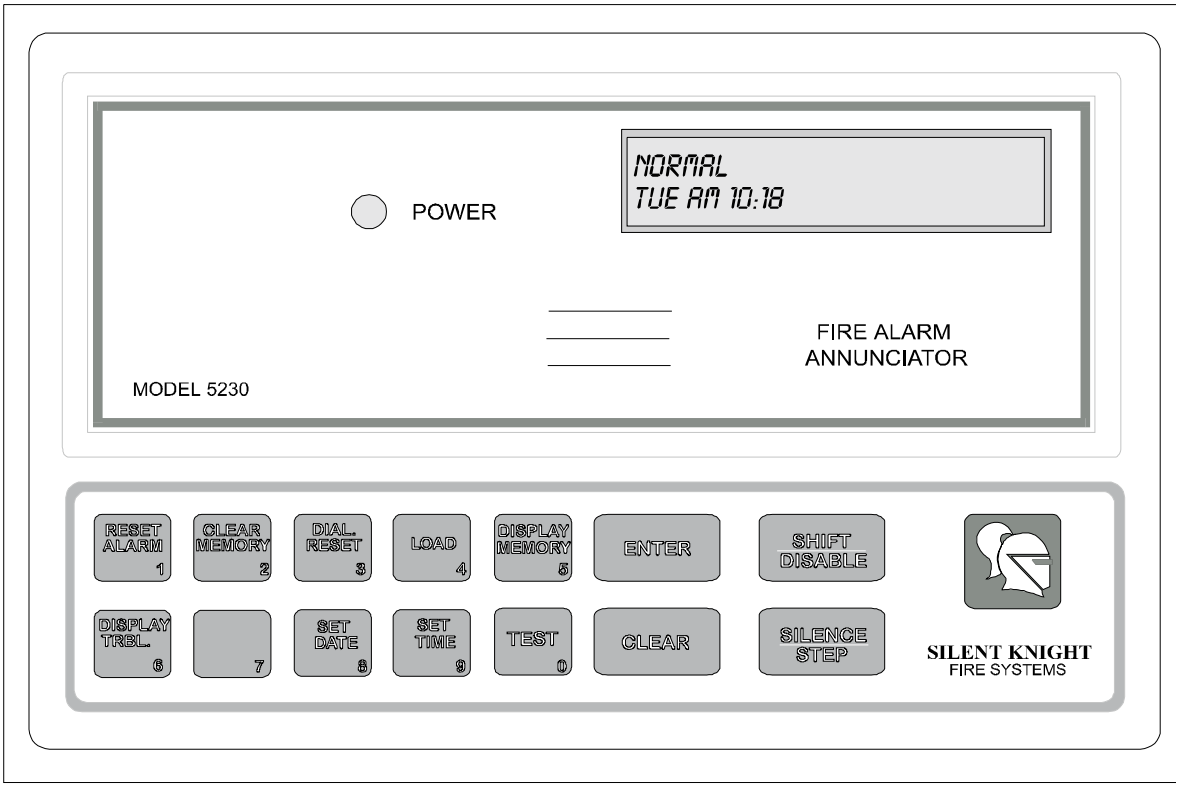

Figure 5-2 Model 5230 Remote Annunciator

5.1 Built-in Touchpad and Model 5230 Operation

Basic operation of both the 5230 and the built-in touchpad is described in Table 5-1. Note that if no keys are pressed for 15 minutes while in program mode, the system will time out and resume normal operation.

Notes: A valid operating code is required for most functions when using the 5230. In Table 5-1, code = any valid operating code, code 0 = installerís code, and code 1 = main userís code.

If the NEED CODE AT PANEL option is selected in programming (Step 3), the following operations will require a valid code when using the built-in touchpad: Silence, Reset alarms, Clear alarm memory, Test.

Table 5-1 5207 Operation

To			Additional Information
	5230 Annunciator	Built-in Touchpad	
Test the system	0 ENTER + code	0 ENTER	The system will perform a display lamp test, a bell test, and a communicator test. *(Note: Bells or relays programmed to activate on "Pre-Alarm" or "Trouble" do not activate during a test.)*
Reset alarms (or smoke detectors)	1 ENTER + code	1 ENTER	If there is no alarm, this procedure resets the smoke detectors.
When a trouble condition occurs and you reset the alarm, the trouble condition is stored in memory until you clear the alarm memory. If the alarm memory is not cleared, the trouble condition is displayed the next time a trouble condition occurs, implying incorrectly that more than one trouble condition exists.			
Clear alarm memory	2 ENTER + code	2 ENTER	Clears alarm memory and resets the 4180. (This function removes all memory of alarms.)
Reset the dialer	3 ENTER + code 0 or 1	3 ENTER + code 0 or 1	Resets the dialer (aborts a call).
Initiate download	4 ENTER + code 0 or 1	4 ENTER + code 0 or 1	Starts the downloading process. Exit downloading mode by pressing CLEAR CLEAR.
Display alarm memory	5 ENTER	5 ENTER	Displays current alarm memory. (It is recommended that you clear alarm memory after displaying it.)
Display troubles	6 ENTER	6 ENTER	Displays trouble conditions.
Silence troubles or alarms	SILENCE + code OR 7 ENTER + code	SILENCE OR 7 ENTER	If silencing audible signals, you may need to enter a code.

Table 5-1 5207 Operation

To			Additional Information
	5230 Annunciator	Built-in Touchpad	
Set date	[8] [ENTER] + code 0 or 1	[8] [ENTER]	See explanation below.
The SET MODE LED will turn on and the built-in touchpad display will flash "-8" indicating that you are in SET DATE mode. Enter six digits for the date. For example, to set the date for 08/15/97, enter the following digits: [0] [8] [1] [5] [9] [7] Once you press the last digit of the date, the SET TIME LED will turn off and the date will be changed. To exit Set Date mode, press [CLEAR] [CLEAR].			
Set time	[9] [ENTER] + code 0 or 1	[9] [ENTER]	See explanation below.
The SET MODE LED will turn on and the built-in touchpad display will flash "9" indicating that you are in Set Time mode. Enter six digits for the time. The first digit indicates day of the week ([0] = Sunday, [1] = Monday, etc.). The second digit indicates time of day ([0] = AM, [1] = PM). The last four digits are the actual time. For example, to set the time for Wednesday, 4:30 p.m., you would enter: [3] [1] [0] [4] [3] [0]. Once you press the last digit of the time, the SET TIME LED will turn off and the time will be changed. To exit Set Time mode in the middle of the sequence, press [CLEAR] [CLEAR]. Note: If you are powering up the 5207, you will be in Set Time mode with "-9" showing on the display. In thise case, you donít need to press [9]. Just enter the six digits for the time.			
Disable/Enable zones	Zone # + [DISABLE] + code	Zone # + [DISABLE] + code	Disables or enables a zone. When a zone is disabled, there will be an alert tone that cannot be silenced until the zone is enabled.
Fire drill	Begin: [2] [0] [ENTER] + code 0 or 1 End: [SILENCE] + code	Begin: [2] [0] [ENTER] + code 0 or 1 End: [SILENCE]	Complete instructions appear in Section 5.2.1.
Walk test	Enter: [2] [2] [ENTER] + code 0 or 1 Exit: [SILENCE] [SILENCE] [CLEAR] [CLEAR]	Enter: [2] [2] [ENTER] + code 0 or 1 Exit: [SILENCE] [SILENCE] [CLEAR] [CLEAR]	Complete instructions appear in Section 5.2.2.
Zone trouble-shooting mode	Enter: [2] [5] [ENTER] + code 0 or 1 Exit: [CLEAR] [CLEAR]	Enter: [2] [5] [ENTER] + code 0 or 1 Exit: [CLEAR] [CLEAR]	Complete instructions appear in Section 9.3
Step programming mode	Enter:[2] [7] [ENTER] + code 0 Exit: [STEP] [STEP] [CLEAR] [CLEAR]	Not applicable.	Step programming is explained in detail in Section 7.

5.1.1 Built-in Touchpad Display Codes

The following table briefly describes the codes that are displayed on the built-in touchpad. For complete information and for 5230 display messages, see Section 9.

Table 5-2 Built-in Touchpad Display Codes

Display	Meaning
0	Fire drill (with Alarm, Alarm Memory, or Trouble LED).
1 - 16	Zone numbers (with Alarm, Alarm Memory, or Trouble LED).
A1 - A4	Trouble with specified bell output.
AC	Low AC condition.
dC	Low battery condition.
dF	Dialer failed after programmed number of attempts have been made.
dL	Data lost during attempt to transmit to the central station. This condition occurs after total attempts to communicate have been made.
E0	Trouble with the dialer.
E7	Trouble with EEPROM.
F0	5230 annunciator power trouble.
F1 - F7	Trouble with specified annunciator (1-7).
L1 - L2	Phone line fault on specified phone line.
P0	Printer is out of paper.
P1	Trouble with smoke detector power.
P2	Accessory power (terminal 26) trouble.
P3	Earth ground fault to circuit ground. See Section 9.2 for more information.
P4	Earth ground fault to power. See Section 9.2 for more information.
-0	Fire drill
-2	Walk test
-4	Downloading
-5	Zone troubleshooting mode
-6	Hex programming mode
-7	Step programming mode
-8	Set Time mode
-9	Set Date mode
2-, 3-, etc.	Prompts indicating that the user needs to enter a code.

5.1.2 LED Indicators

Six light emitting diodes (LEDs) appear in the 5207 cabinet window. The chart below explains the meaning of these LEDs.

LED	Status	Condition
ALARM (red)	Off	Normal condition
	On	Supervisory and Tamper condition
	Flashing	Alarm
SILENCED (yellow)	Off	Normal condition.
	On	Alarm or trouble condition has been silenced but condition still exists.
AC / DC (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.
MEMORY (yellow)	Off	Normal condition
	On	An alarm condition has been reset. Alarm memory contains data.
TROUBLE (yellow)	Off	Normal condition
	On	Trouble condition exists
SET MODE (yellow) REPORT	Off	Normal condition
	On	System is in a Set (Test or Program) mode.
	Flashing	System is reporting.

5.2 System Testing

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

5.2.1 Fire Drills

Fire drills can be run from either the built-in touchpad or the Model 5230 Remote Annunciator. To initiate a fire drill, press [2] [0] [ENTER] + Code 0 or 1. The system will sound an alarm and report a fire test. To end the fire drill, press [SILENCE] + code.

5.2.2 Walk Test (Mode 22)

The walk test is designed to be used for onsite testing only.

To enter walk test mode, press [2] [2] [ENTER] + code 0 or 1. The LCD will indicate that you are in walk test mode. When a zone is tripped, the 5207 will activate the bell outputs for approximately one second and will cycle smoke power off and on for the programmed time interval. (Pre-alarm zones will not be delayed, but smoke verification zones will go through the verification delay.) 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 15 minutes if no keys are pressed or no zones are tripped during the walk test.

To exit walk test mode, press [SILENCE] [SILENCE] [CLEAR] [CLEAR].

Note: The ESL-429 series smoke detectors are NOT compatible when operating the 5207 panel in walk test mode. In walk test mode, the built-in self test on the ESL 429 series smoke detectors may be unreliable.

If the built-in self test is required, it should be done in the normal operating mode with the zone speed set to 3 seconds or higher.

Note that these smoke detectors are incompatible only for walk tests, not for any other normal 5207 system operation.

5.2.3 Automatic Self Test

The Model 5207 lets you select the time of day that the 24-hour automatic test signal will be sent to the central station.

The Auto Test dialer test sent automatically at specified times. Immediately following the test, the 5207 also sends all unrestored events as required by UL. The events will have no indication when they occurred, so central station personnel should maintain records of unrestored events, or, if that is not possible, treat all alarms, troubles, and supervisories that come in during an auto test as if they were new events.

5.3 Watchdog Circuit

During normal operation, the control microprocessor of the 5207 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.