

Electronics Line (E.L.) Ltd.

SUMMIT

3208

Installation, Operation & Programming

Second Edition

1-800-683-6835

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1. SYSTEM OVERVIEW

1.1 FCC Information

1. This equipment complies with Part 68 of the FCC rules. On the inner back panel of the control box of this equipment is a label that contains, among other information, the FCC registration number and ringer equivalence (REN) for this equipment. If requested, this information must be provided to the telephone company.
2. Provides a listing of all applicable registration jack USCOCs, any facility interface codes and service order codes associated with the services the equipment is to be connected.
3. The REN is used to determine the quality of devices which may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to the line, as determined by the total RENs contact the telephone company to determine the maximum REN for the calling area.
4. If the terminal equipment, (3208 Alarm Control Panel) causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't 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.
5. The telephone company may make changes in it's 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 the necessary modifications in order to maintain uninterrupted service.
6. If trouble is experienced with the 3208 Alarm Control Panel, please contact Electronics Line (E.L.) USA 800-683-6835 for repair and (or) warranty information. If the trouble is causing harm to the telephone network, the telephone company may request you remove the equipment from the telephone until the problem is resolved.
7. Customer service is limited to the replacement of fuses.
8. The 3208 Alarm Control Panel cannot be used on any public coin operated service operated by the telephone company. Connection to Party line Service is subject to state tariffs. (Contact the state public utility commission for information).

FCC Compliance Statement

Caution: Changes or modifications not expressly approved by Electronics Line Ltd. could void your authority to use this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient the receiving antenna.
- Increase the separation between the equipment and receiver.
- Consult the dealer or an experienced radio/television technician for help.

The user may find the following booklet prepared by the FCC useful: "How to Identify and Resolve Radio/Television Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington D.C. 20402, Stock # 004-000-0035-4.

1.2 INTRODUCTION

The Summit 3208 control panel is the first member of the 3200 family of high-tech control panels and communicators. The Summit 3208 features state of the art technology available for the first time in a low cost panel.

MAIN FEATURES INCLUDE:

- Remote Uploading/Downloading that can be performed from the central station or any other PC using the remote programming package supplied by Electronics Line. This allows programming of control panels, log reviewing and clearing, and command issuing. Toll saver features are supported, such as remote programmer callback and answering machine override.
- 8 fully programmable supervised zones that can be programmed as interior, perimeter, fire, delayed, instant, followers, 24 hour, audible or silent, and even as arm/disarm switches. Each zone is assigned with a unique zone descriptor, selected from a standard library of 60 descriptors, and 4 programmable descriptors.
- 3 keypad activated zones (Emergency, Fire, and Police).
- Quick arming keys. Pushing the "STAY" key will arm the perimeter only. Pushing the "AWAY" key will arm the perimeter and interior. Programming this feature allows the end user to arm without a user code.
- The panel can be partitioned into 4 separate systems. Each zone can be assigned to any of the partitions, and each partition can be separately armed, disarmed and displayed. Each partition can be identified with a different account number at the central station, thus allowing true separation of the partitions.
- 16 user codes, 3 to 6 digits each, with 16 different authorization levels that can be assigned to each of the passcodes. This will allow or prevent operations such as programming, disarming, or access to the different systems. Duress code capability.
- Central station communicator with 4 telephone numbers, 16 digits each, supporting pulse and tone dialing. Supports virtually all standard formats, including 3x1, 4x1, 4x2, Extended, Single Round Extended, SIA, and E.L.. Transmission speeds include 10PPS, 20PPS and 40PPS (either with or without parity).
- Message routing to different central stations can be programmed for every event type through the 4 different telephone numbers. Every message can be programmed as Primary, Backup or Duplicate.
- "Follow Me" is a programmable feature that allows direct user notification by phone that an alarm has taken place at the protected area.
- An Event log that contains up to 16 events, including time and date stamp, zone description, and user number. An event can be generated to the central station indicating that the event log is 75% full.

- Opening & Closing windows are separately programmable for each of the 4 partitions for every day of the week. This saves opening & closing reports to the central station if they were performed within the programmed window. It also supports "late to close" command by user, and automatic arming at the end of a closing window (programmable).
- Both LED (3106) and LCD (3108) keypads are supported by the control panel. Up to 8 different supervised addresses can be connected to a control panel, controlling 4 different systems, allowing simultaneous operations. Programming can be performed from keypads.
- High speed 4 wire interface bus for keypads and expansion modules. All units connected to this bus can be supervised for the integrity of the connection.
- Programmable phone supervision to allow an alarm to be sounded if the phone line is interrupted.

1.3 Parts & Options List

Standard Parts List

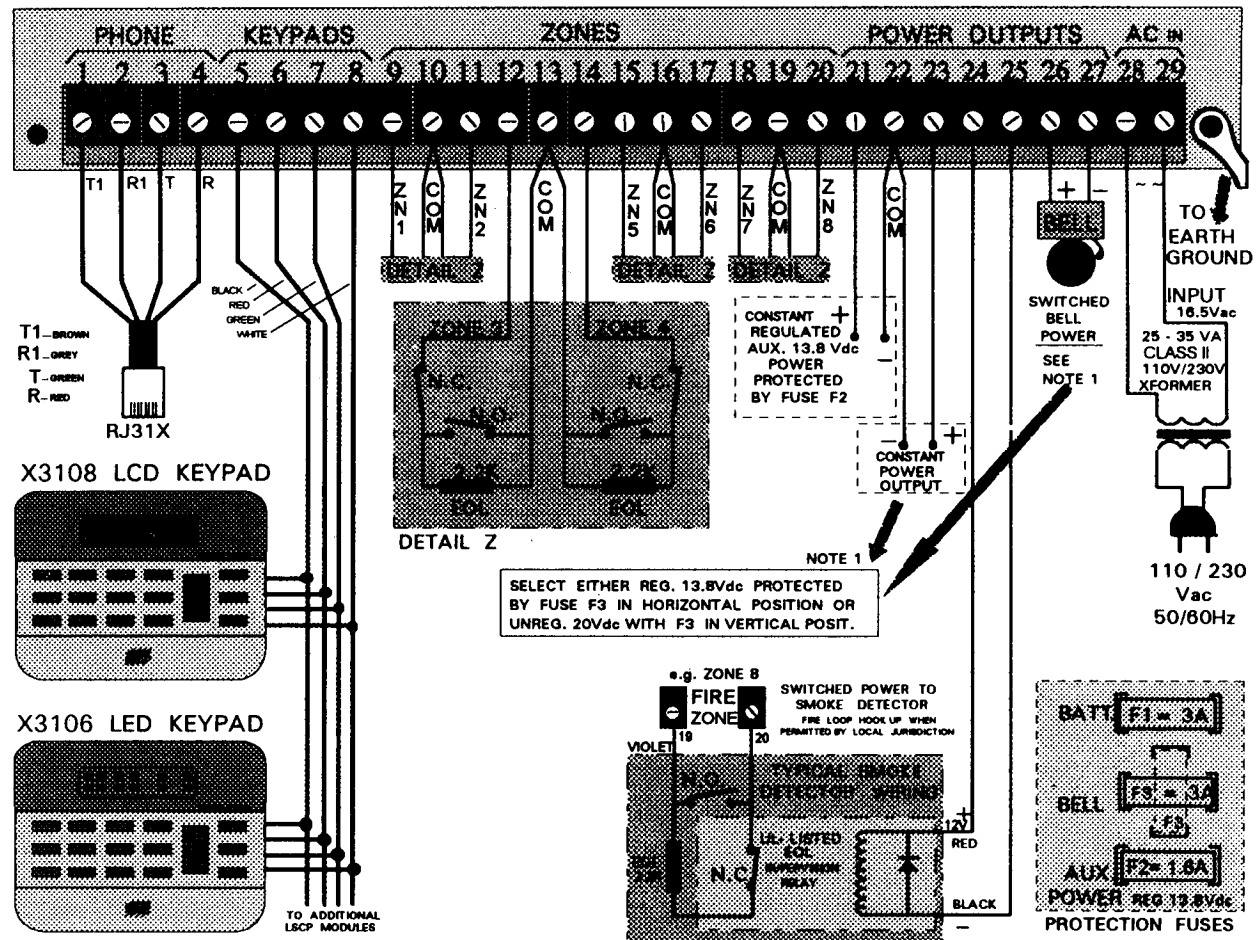
Master Control Panel without keypad	1 each
16.5 VAC 35VA Transformer	1 each
2.2K end of line resistors	8 each
Installation, Operation, and Programming Manual	1 each
User Manual	1 each

Optional Parts List

3106 LED Keypad
 3108 LCD Keypad
 Up/Downloading Software
 3911 Up/Downloading Modem & RS232 Cable
 12VDC Adapter for modem
 12VDC 4.0 AH Battery
 12VDC 7.0 AH Battery
 3900 Hand Held Local/Remote Programmer

2. INSTALLATION

2.1 Wiring Diagram



2.2 Terminal Connections

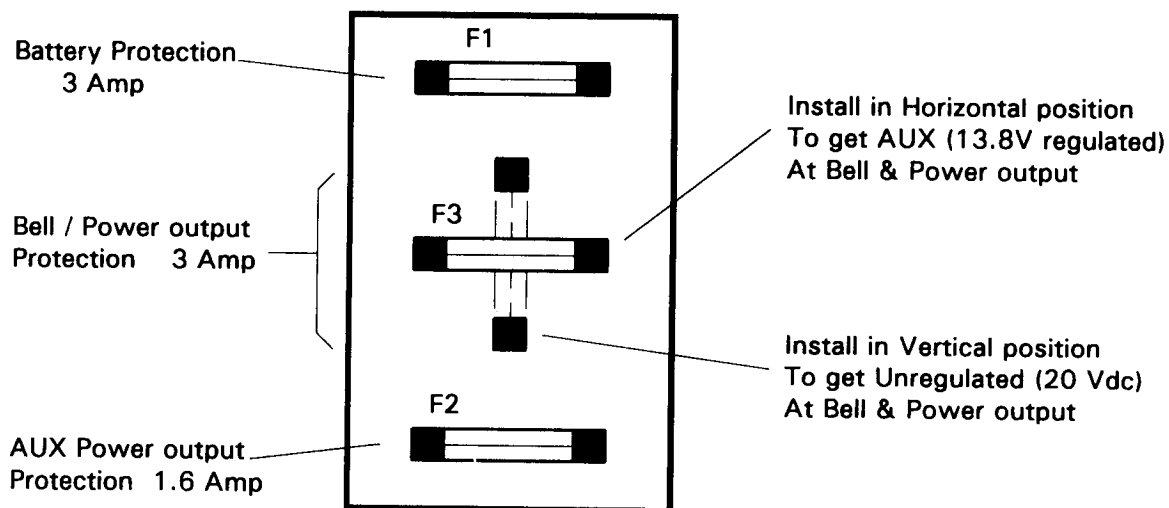
1, 2, 3, 4	TELEPHONE LINE: Telephone line should be connected as follows: 1 (Brown) Home Tip, 2 (Grey) Home Ring, 3 (Green) Telco Tip, and 4 (Red) Telco Ring.
5(-),6(+),7,8	KEYPAD & EXPANSION MODULES: Connect all high speed 4 wire bus units to these terminals; 5 (Black) Common Ground -, 6 (Red) AUX power +, 7 (Green) LSCP + signal, and 8 (White) LSCP - signal. Make sure that the wires are connected to the same connections on the keypad or expansion unit as well.
9(+),10(-) 11(+),10(-) 12(+),13(-) 14(+),13(-) 15(+),16(-) 17(+),16(-) 18(+),19(-) 20(+),19(-)	ZONE CONNECTIONS: Zone 1 terminals Zone 2 terminals Zone 3 terminals Zone 4 terminals Zone 5 terminals Zone 6 terminals Zone 7 terminals Zone 8 terminals All zones can be Normally Open, Normally Closed, or supervised via End-Of-Line Resistor of 2.2K (programmable separately for each zone). All zones are referenced to Common Ground. See Wiring diagram for zone connection examples.
21(+), 22(-)	AUXILIARY POWER OUTPUT: Supplied 10.2 to 13.8Vdc, regulated rated at 1.5 Amp (including battery charging current).
23(+), 22(-)	CONSTANT POWER OUTPUT: Constant regulated 13.8Vdc (if fuse F3 installed at horizontal position) or approx. 20Vdc unregulated (if fuse F3 installed at vertical position).
24(+), 25(-)	SMOKE DETECTOR POWER OUTPUT: This power output will supply up to 100mA for powering smoke detectors. The (-) terminal (25) is interruptible by fire alarm, and will be restored automatically or manually (Refer to programming manual).
26(+), 27(-)	BELL POWER OUTPUT: Connect to power bell. Aux power (10.2 to 13.8Vdc), rated at 1.5Amp with 35VA transformer. If a battery is present up to 4.0Amps output power is available. Pulsed signals are available for special alarm types. (Speaker rating should be 15 watts at 4 or 8 ohm, or 30 watt at 4 or 8 ohm.

Terminal Connections (cont'd)

28(+), 29(-) **16.5V AC INPUT:**
Connect a 16.5V AC type 11 transformer rated at 35VA.
Use 18awg wire for these connections.

2.3 Fuse Replacement

There are 3 fuses in the 3208 control panel board, all accessible through an opening in the circuit board metal cover. The fuses layout are:



- The AUX output protection fuse protects current drawn from terminals 6 (keypad power), 21 (AUX output and detectors) and 24 (Fire sensor power).
- The Battery protection fuse protects the battery charger circuit from a short battery, and protects the 3208 panel from a reversed polarity battery.
- The Bell / Power protection fuse protects the switched Bell output (terminal 26) and the constant Power output (terminal 23), which are driven by the same power source. Installing the fuse in horizontal position will drive the regulated 13.8Vdc output to these terminals, but will limit them to 1.5Amp (or 4Amp during alarm). Installing the fuse in vertical position will drive the unregulated (approx. 20Vdc) output to these terminals, allowing 2.5Amp (with a 35VA transformer) drawn at all times.

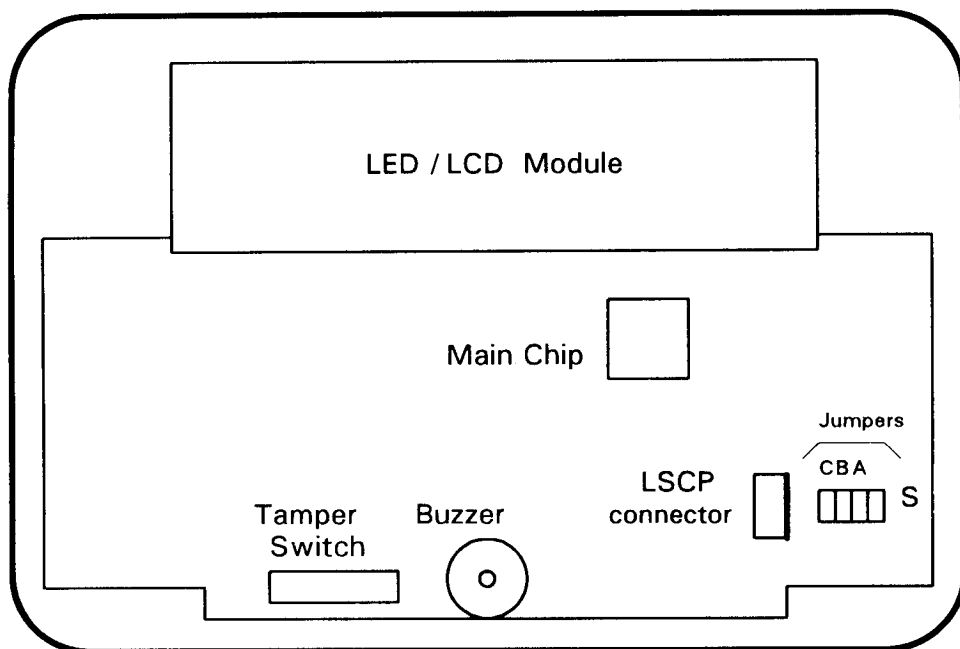
MAKE SURE YOU REPLACE A FUSE WITH THE CORRECT RATING !

2.4 Keypad Installation

Two keypad models are available for the Summit 3208 control panel: The 3106 LED keypad, and 3108 LCD keypad. Both are supplied tested and programmed to the non-supervised mode at keypad address 0. They can be connected, as supplied, to the 3208 control panel. In order to connect a keypad without changes - proceed with step 3. In order to add keypad supervision, proceed with step 2. In order to change keypad unit address, start with step 1.

1. Setting Keypad Unit Address & Supervision

LED / LCD Module - rear view, cover removed



The following address selections are available:

Keypad 1	<div>CBA</div> <div><div></div><div></div><div></div></div>	Keypad 5	<div>CBA</div> <div><div></div><div></div><div></div></div>	(Jumper installed <div></div>)
Keypad 2	<div></div> <div></div> <div></div>	Keypad 6	<div></div> <div></div> <div></div>	(Jumper removed <div></div>)
Keypad 3	<div></div> <div></div> <div></div>	Keypad 7	<div></div> <div></div> <div></div>	
Keypad 4	<div></div> <div></div> <div></div>	Keypad 8	<div></div> <div></div> <div></div>	

The following supervision selections are available:

Keypad supervised	<div>S</div> <div></div>
Keypad not supervised	<div></div>

Different keypad addresses are used to show different displays (of other systems in partitioned mode) or act differently (different tonal sounds, one key arming enable / disable, etc.). More than one keypad can be installed with the same address (only if the keypads are non-supervised - see next paragraph). To change keypad unit address - locate the jumpers marked "CBA" and program them according to the chart above. See programming section for programming features for the different keypad addresses.

2. **Keypad supervision setting:** Open the keypad unit back cover, and locate the jumper marked as S (supervise). This jumper is wired for non-supervised keypad mode (default). To allow keypad supervision, remove the jumper from the "S" position *Note: Multiple keypads can be connected in the non-supervised mode at the same address. If supervised keypads are to be connected, each **must** be programmed to a different address. A combination of supervised and non-supervised keypads can be installed, as long as supervised keypads do not share the same address with any other keypad. All keypads are physically connected in parallel.*
3. **Keypad connections:** Connect the BLACK wire from the keypad to the Common Ground (terminal 5) at the control panel. Connect the RED wire from the keypad to +AUX power (terminal 6) at the control panel. Connect the GREEN wire to signal LSCP-(terminal 7) of the control panel, and connect the WHITE wire to signal LSCP+ (terminal 8) at the control panel, All keypad units are connected in parallel.

Keypad Sounder:

Each keypad has an internal sounder, providing the following sounds (programmable):

- Long beep - For arming or disarming (see Defaults), and zone chime
- 3 beeps - For arming or disarming (see Defaults)
- 1 beep - For command acknowledgment and password acceptance
- 1 low frequency beep - For command rejection or password denial
- 1 short beep - for every key pressed
- Continuous beeps - during exit and/or entry delays - when programmed

2.5 System Testing

All system functions can be tested manually by the operator/installer. Some of the following tests are being executed at all times automatically by the control panel. These include: battery test (executed once every minute), telephone communicator and RF communicator tests (depending on the periodic test timer), bell test (every alarm or arming ring), and partial system test (which is executed all the time). The following test can be performed using the LED or LCD keypads, refer to section 3 for LCD keypad operation and section 4 for LED keypad operation.

- **Walk Test** - Press "SELECT" '4', '2', '1', followed by your authorized user code, or select main menu, service menu, test menu, walk test. All zones will generate chime beep at the keypads (even if they are not programmed for chime), and the zone number will be identified on the display (LED or LCD). ***No zone will create an alarm, even if the zone is programmed as a 24 hour zone or fire.*** Terminating the walk test is performed by pressing any key at the keypad.
- **Bell Test** - Press "SELECT" '4', '2', '2', followed by your authorized user code, or select main menu, service menu, test menu, bell test. A short bell ring is heard from the bell. The test is terminated automatically after this ring, no further action is required.
- **Telephone Communicator Test** - Press "SELECT" '4', '2', '3', followed by your user code, or select main menu, service menu, test menu, tel. test. A test message will be sent to all central stations that are programmed at the control panel. The control panel returns to normal operation, and the calls take place at this time.
- **RF Communicator Test** - Press "SELECT" '4', '2', '4', followed by your authorized user code, or select main menu, service menu, test menu, RF test. A test message will be sent over the RF link encoder/transmitter to all central stations that are programmed at the control panel. The control panel returns to normal operation while the transmissions take place.
- **System Test** - Press "SELECT", '4', '2', '5', followed by your authorized user code, or select main menu, service menu, test menu, sys. test. The control panel will be tested (all components, interfaces, etc.). If the test fails, the following message will appear (only on LCD keypad):

SYSTEM FAILURE ERROR CODE 03.45

If you have an error code call Electronics Line USA, technical support at 800-683-6835.

Note: If you are using an LED keypad - do not perform this test.

- **Battery Test** - Press "SELECT", '4', '2', '6', followed by your authorized user code, or select main menu, service menu, test menu, batt. test. The battery condition will be tested under loading conditions, the control panel will return to normal operation, and battery status display will be updated.

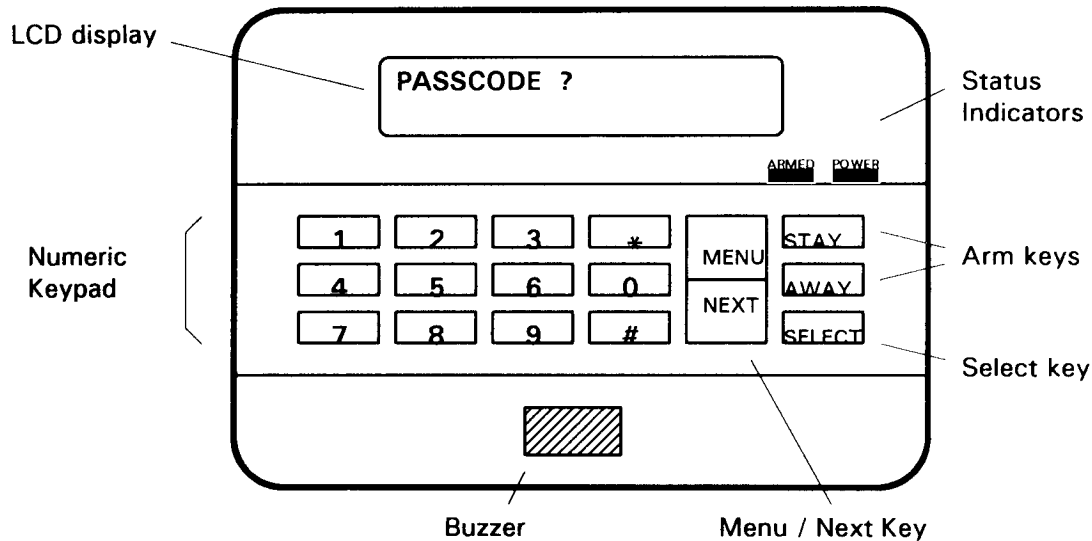
3. OPERATION WITH LCD KEYPAD 3108

3.1 General

All the parameters, user codes, telephone numbers and other options are factory programmed to default program 1 (non-partitioned operation). All parameters can also be reprogrammed through local keypads, or remote programming. Refer to section 5 for programming, and default program 1 for factory set initial parameters.

3.2 Display and Controls

Keypad Layout:



Keypad Indicators:

ARMED

On when system is armed. Off when system is disarmed. Blinking when exit and entry delay are active.

POWER

On when both AC and backup battery exist and within specified levels. Blinking slow when battery is low. Blinking fast when AC is missing. Off when both AC is missing and battery is low.

Keys and Keypad Functions:

0 - 9

The numeric keys will be used to enter user codes, to set telephone numbers, to issue commands by numbers, and to select items from the menu, when in menu mode.

* ,

These keys will be used on telephone numbers as switch to tone(*) and pause (#) operations when programming telephone numbers. These keys also have meaning when programming the control panel.

Keys (cont'd)

<u>MENU</u> NEXT	When the display is in the normal display mode, pressing this key will display the main menu. Pressing this key again will display the next item in this menu. This key is also used in conjunction with *, 0, # keys for emergency codes generation.
SELECT	When the display is in status mode, pressing this key, followed by a command code number will perform a function. When the display is in menu mode, pressing this key will select the pointed item from the menu.
STAY	Pressing this key when the system is ready to arm, will arm the system's perimeter only. Programming this button as the Quick arm key, allows the end user to arm without a user code.
AWAY	Pressing this key when the system is ready to arm, will arm the system's perimeter and interior. Programming this button as the Quick arm key, allows the end user to arm without a user code. Pressing "AWAY" will also take you back to the main menu when scrolling or programming.

3.3 System Status Display

System ready to arm display:

SYSTEM 1 READY 13:25

System ready to arm with bypassed zones display:

SYSTEM 1 READY (BYPASSED) 13:27

System not ready to arm due to open zones:

SYSTEM NOT RDY (OPEN ZONES) 13:23

System armed, exit delay counting:

SYSTEM 1 ARMED EXIT NOW ! 13:26

System armed, exit delay ended - system is fully armed:

SYSTEM 1 ARMED 13:25

Zone Status Display:

Zone status will only be displayed if detailed display is selected:

ZONE 1 OPEN
BEDROOM 13:25

-or-

ZONE 3 BYPASSED
FRONT DOOR 13:27

System Status Display:

System AC was lost:

SYSTEM AC LOSS
13:24

System Backup battery is too low (under 10.8V):

SYSTEM LOW BATT
21:43

Alarms are logged in the event log (message will be cleared after log was viewed or cleared):

LOG: NEW ALARMS
17:23

NO alarm is logged in the event log:

NO ALARM LOGGED
08:19

Communication has failed:

COMMUNICATION
FAILURE 13:25

3.4 Arming & Disarming

Normal Arming (STAY / AWAY) & Disarming:

If the "ARMED" indicator is on - the system is armed. If it is off - the system is disarmed.

To arm the system (in normal mode, perimeter + interior) press

AWAY

To arm the system (in perimeter only mode) press

STAY

To disarm the system (if it is armed - observe ARMED indicator) key in your passcode

(

1

2

3

4

5

6

 is the default passcode).

If the system is disarmed, pressing the passcode will arm the system (perimeter + interior).

Force Arming:

If some zones are unsecured (due to motion during the arming operation) but they will be within the exit delay (by the time arming is complete), the "READY" indicator will blink, but you can force arm the system by keying "SELECT" '2', '2', '1', and your user code. The central station will be notified that the system was **force** armed. If zones are still unsecured after exit delay has ended, alarm will be sounded! *Note: It is recommended to wait until all zones are secured and arm the system normally.*

Immediate Arming:

To arm immediately and eliminate the entry and exit delays, press "STAY" (for perimeter only) or "AWAY" (for perimeter + interior), according with the desired arming extent, and then press the "*" key.

3.5 Menu Selections vs. Direct Commands

The two possible ways to initiate an operation on the control panel are by menu selections (available only on the LCD keypads) or by direct commands (available on both the LCD and LED keypads).

Direct Command Codes:

Initiating a command can be performed when the keypad is in normal status display mode. Press "SELECT" key, followed by your "Command Code" from the following list. If a user code is required, key in your authorized user code (Refer to User Codes). After the command is executed, and acknowledgment tone will be heard.

Command Codes:

1X-	Disarm System X (1 - 4)	5-	User Codes
21X-	Immediate Arm System X (1 - 4)	61-	View Log
22X-	Force Arm System X (1 - 4)	62-	Print Log
23X-	Perimeter Arm System X (1 - 4)	63-	Clear Log
24X-	Normal Arm System X (1 - 4)	64X-	Detailed Display of System(1 - 4)
25X-	Late to Close - HHMM	65X-	Summarized Display of System (1-4)
31X-	Bypass Zone X (1 - 8)	66-	Detailed display of all Systems
32X-	Unbypass Zone X (1 -8)	67-	Summarized Display of all Systems
41-	Set Time HHMM, MMDDYY	71-	Manual Programming
421-	Walk Test	72-	Default Programming 1
422-	Bell Test	73-	Default Programming 2(Partit.)
423-	Telephone Test	741-	Remote Programming: off hook
424-	RF Test	742-	Remote Programming: Callback
425-	System Test	81-	Reset AUX Relay
426-	Battery Test	82-	Set AUX Relay
43-	Fire Sensor Power Reset	83X-	Reset Relay X
44-	Bell Cancel	84X-	Set Relay X
45-	Stop Telephone Call		
46-	Follow Me		

Menu Selections:

When the keypad is in normal status display mode (status messages are scrolled on the LCD display), press "MENU". The main menu will be displayed. The selection is pointed by >. Press "NEXT" to scroll through all possible selections from this menu. Press "SELECT" to choose the selection indicated by the arrow to execute the operation.

Pressing "MENU" for the first time will display:

> 1 OPEN / DISARM NEXT. . .

Pressing "NEXT" will display the next selections (from the same menu):

> 2 CLOSE / ARM NEXT. . .

Pressing "SELECT" when the CLOSE/ARM menu is selected will display:

> 21 IMMEDIATE NEXT. . .

etc..

Note: The selection numbers are actually the direct command numbers for this operation or menu. You can use the codes to execute these commands without the need to scroll through the menu. Refer to previous paragraph for direct command initiation.

The complete menu chart is given in the next page.

MAIN MENU

- | | | | |
|-----|------------|-------|---------------------------|
| 1 - | DISARM | 21 - | IMMEDIATE ARM |
| 2 - | ARM | 22 - | FORCE ARM |
| | | 23 - | PERIMETER ARM |
| | | 24 - | NORMAL ARM |
| | | 25 - | LATE TO CLOSE |
| 3 - | BYPASS | 31 - | BYPASS ZONE |
| | | 32 - | UNBYPASS ZONE |
| 4 - | SERVICE | 41 - | SET TIME & DATE |
| | | 42 - | TEST |
| | | 421 - | WALK TEST |
| | | 422 - | BELL TEST |
| | | 423 - | TELEPHONE TEST |
| | | 424 - | RF TEST |
| | | 425 - | SYSTEM TEST |
| | | 426 - | BATTERY TEST |
| | | 43 - | FIRE SENSOR RESET |
| | | 44 - | BELL CANCEL |
| | | 45 - | STOP COMMUNICATIONS |
| | | 46 - | FOLLOW ME |
| 5 - | USER CODES | | |
| 6 - | VIEW/LOG | 61 - | VIEW LOG |
| | | 62 - | PRINT LOG |
| | | 63 - | CLEAR LOG |
| | | 64 - | DETAILED SYSTEM DISPLAY |
| | | 65 - | SUMMARIZED SYSTEM DISPLAY |
| | | 66 - | DETAILED SYSTEM DISPLAY |
| | | 67 - | SUMMARIZED SYSTEM DISPLAY |
| | | 68 - | SHOW VERSIONS |
| 7 - | PROG. | 71 - | MANUAL PROGRAMMING |
| | | 72 - | DEFAULT PROGRAM #1 |
| | | 73 - | DEFAULT PROGRAM #2 |
| | | 74 - | REMOTE PROG |
| | | 741 - | OFF HOOK |
| | | 742 - | CALLBACK |
| 8 | AUX RELAY | 81 - | RESET AUX RELAY |
| | | 82 - | SET AUX RELAY |
| | | 83 - | RESET RELAY |
| | | 84 - | SET RELAY |

3.6 User Codes

User codes allow execution of operations on the control panel. Most operations will require a user code. 16 user codes are programmable on the Summit 3208 control panel. Each is 3 to 6 digits long. Each user code is associated with an authorization level (0 through 15). Changing of these authorization levels is allowed through programming. Authorization level 0 does not allow any operation and is assigned to delete a user code. The following authorization levels will allow the following operations:

Level 1	Allows only normal arming (AWAY), interior & perimeter
Level 2	Allows the same + Perimeter arming
Level 3	Allows the same + Force arming
Level 4	Allows the same + Disarming, Bell canceling, Auxiliary relay operations, and fire sensor power interrupt & reset
Level 5	Allows the same + Log view, Follow Me telephone number programming
Level 6	Allows the same + Zone bypassing, Clock change, Open/Close windows, Late to Close, Log clear, and Remote programming
Level 7	Allows the same + User code programming
Level 8	Not available at this time
Level 9	Allows the same + Tests
Level 10	Allows the same + Programming + Keypad Display Change
Level 11	Not available at this time
Level 12	Allows only Test & Programming
Level 13	Allows only Log view & clear
Level 14	Allows only Tests
Level 15	Allows Arm, Disarm, Bell cancel, and creates Duress message to the central station

Programming User Codes:

Select "USER CODES" from main menu or press "SELECT", '5'. Enter your user code (which is authorized for this operation).

The display will show:

USER 01 : > 3208?? SYS.: 1 LEVEL: 10

User number 1 is displayed, user code is 3208 - 4 digits, only system 1 is assigned to this user code, and its authorization level is 10. The user code field is pointed by >.

- To scroll through all user codes, press "NEXT"
- To scroll through the different fields, press "SELECT"
- To change value of field, key in the desired numeric value.
- User codes can be 3 to 6 digits. 3 to 5 digit user codes will display ?? for unused digits.

3.7 Emergency & Duress

In case of emergency, 3 types of codes can be generated by holding down two keys at the same time for more than 1 second. These codes will be reported to the central station and will activate the bell if programmed. These combinations are:

MENU & *	Emergency
MENU & 0	Fire alarm emergency
MENU & #	Police emergency

Duress

Duress is sent by keying the duress user code. This user code disarms all systems programmed and stops the bell, while sending a duress code to the central station. Duress user code has authorization level 15.

3.8 Zone Bypassing & Unbypassing

Bypassing can be performed only if the system is disarmed ("ARMED" indicator is off). Press Menu, Bypass, Select. Enter zone, and authorized user code. Or Select, '3', '1', zone number and your user code. Unbypassing is performed by selecting Unbypass from the bypass menu, or Select, '3', '2', zone number and your user code.

3.9 Event Log

View Event Log

From the main menu select "VIEW/LOG" and "VIEW LOG" or press "SELECT", '6', '1', followed by your user code (authorized for this operation). The events will be displayed starting with the first event in the log, and continue until the last event in the log is displayed. A report can be sent to the central station when the event log becomes 75% full (Programmable). Once the log is full the oldest event will fall off, i.e. the log will always hold the last 16 events.

The events display will look like:

23 12:45 ALARM BATHROOM ZN 2

Day 23 in month, time is 12:45, alarm from zone 2 -Bathroom

- or -

23 12:50 CLOSE-P SYS.1 BY USER 11

Day 23 in month, time is 12:50, system 1 is closed - (P) perimeter by user 11.

- or -

23 13:56 SYSTEM LOW BATTERY

System message: Low Battery

Scrolling through the messages is performed by pressing "NEXT" until the last message was viewed, and then the following message is displayed:

*** END OF LOG ***

Clear Event Log:

Select "VIEW" menu, and "CLEAR LOG" or press "SELECT", '6', '3' followed by your user code (authorized for this operation). The message ***END OF LOG*** will be displayed, and the log will be erased.

3.10 Other Operations

Set Time & Date:

Press "SELECT", '4', '1', followed by your user code, followed by the time in 24 hour format (HHMM), followed by the date (MMDDYY). The panel returns to normal operation.

Fire Sensor Reset:

Press "SELECT", '4', '3', followed by your user code. The power to the fire sensors will be interrupted momentarily, and then restored to reset smoke detector operation.

Bell Cancel:

To stop bell operation either disarm all systems (see partitioned operation, disarming systems), or press "SELECT", '4', '4', followed by your user code. The bell ringing will be stopped immediately.

Stop Communications:

To stop all communications and clear communication message buffers, press "SELECT", '4', '5', followed by your user code. All buffers will be cleared, and all communications will stop immediately.

Follow Me:

To program a telephone number for the "follow me" feature, press "SELECT", '4', '6', and your user code. Continue with keying the desired telephone number, using keys 0 through 9 as digits, key # as pause, and key * to switch to tone (DTMF) dialing. Examples: To program telephone number 9211110 using DTMF dialing, key *9211110. To dial telephone number 9211110 in pulse dialing, and then switch to tone dialing to access extension 231 after a pause, key in 9211110#*231. Up to 16 digits can be entered, including pause (#) and tone (*) keys.

Late To Close:

When the opening/closing windows are operational, the control panel will have to be armed (closed) within the programmed time frame. If the system will be cleared later (since someone is still on the premises), "late to close" condition will have to be reported to the control panel in order to delay the window. To activate "late to close" condition press "SELECT", '2', '5', system number ('1' for non-partitioned control panel, '1' through '4' for partitioned control panel), followed by your user code, and the new approximate closing time in 24 hour format (HHMM). The command will be acknowledged and the system will return to normal operation.

System Display (Partitioned)

From the main menu, select "VIEW/LOG", and the desired view of the system (detailed system, summarized system, detailed all systems, or summary of all systems) or press "SELECT", '6', and the desired option ('4' through '7').

If a specific system display was desired, "SELECT SYSTEM 1-4" will be displayed. Key in the desired system number ('1' through '4'). Followed by your user code (authorized for this operation).

- "SUMMARY DISPLAY" will show only system status (ready or not ready) and system status (any **system** troubles).
- "DETAILED DISPLAY" will show the above plus zone status (if open or bypassed).

System Arming & Disarming (Partitioned)

All arming modes are supported for all 4 systems. Pressing "STAY" or "AWAY" or simply keying your user code to arm the displayed system only, or to the system to which your user code is assigned. To disarm, your user code must be entered.

If you want to arm/disarm other systems than displayed, perform the following:

- **Disarm** "SELECT" '1', system number (1 thru 4), and user code
- **Normal Arm** "SELECT", '2', '4', system number (1 thru 4), and user code
- **Perimeter Arm** "SELECT" '2', '3', system number (1 thru 4), and user code
- **Force Arm** "SELECT" '2', '2', system number (1 thru 4), and user code
- **Immediate Arm** "SELECT" '2', '1', system number (1 thru 4), and user code

If your user code is assigned to only one system, that specific system will be armed or disarmed by your command if you do not specify any system. If you specify a system to which your user code is not assigned, your user code will be denied.

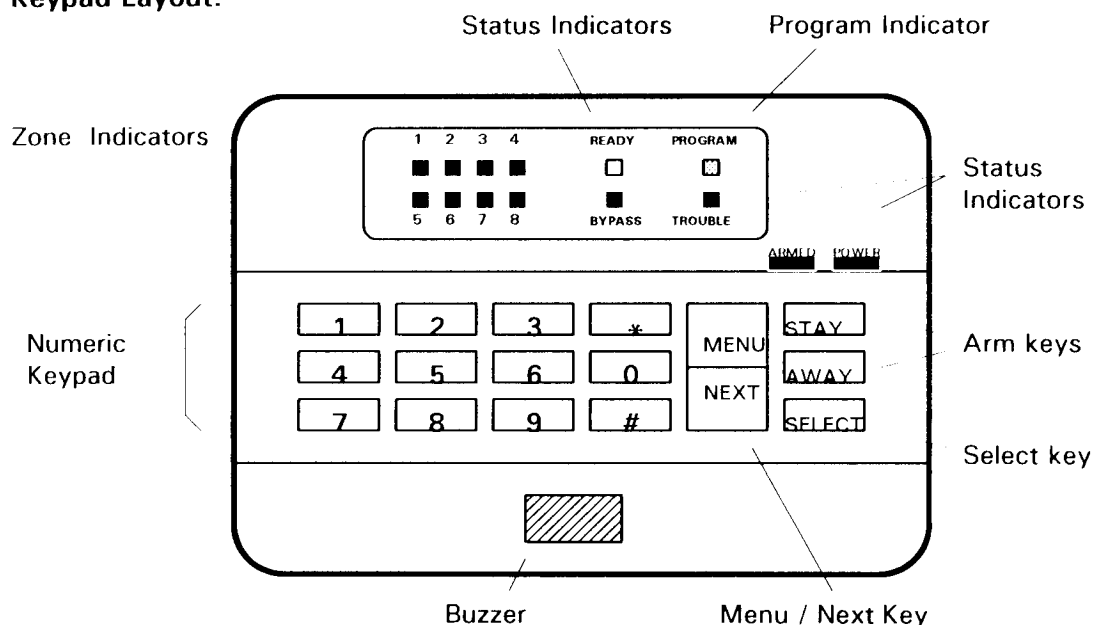
4. OPERATION WITH LED KEYPAD 3106

4.1 General

Note: All the parameters, user codes, telephone numbers and other options are factory programmed to default program 1 (non-partitioned operation). All parameters can also be reprogrammed through the local keypads, or remote programming. Refer to Section 5 for programming, and default program 1 for factory-set initial parameters.

4.2 Display and Controls

Keypad Layout:



Keypad Indicators:

(Zone) 1 - 8	Zone status indicators (all zones). On when zone is open. Blinking slow if zone is bypassed, fast if troubled, Off if zone is normal (secured).
READY	Blinking slow if system is not ready, fast if any new alarms are in the log. On when system is ready to arm.
PROGRAM	On when programming operations in progress. Blinking slow when user code is required, fast if remote programming is in progress, and off if no programming is in progress. It will also light when the keypad is waiting for user action.
BYPASS	On when system contains bypassed zones. Blinking when zone bypassing or unbypassing is in progress. Off when no zone is bypassed in this system 1 (even if other zones are bypassed in partitioned systems).
TROUBLE	Blinking when a communication trouble exists in the system. Zone troubles or any other troubles will not be indicated.

Indicators (cont'd)

ARMED	On when system is armed. Off when system is disarmed.
POWER	On when both AC and backup battery exist and within specified levels. Blinking slow when battery is low. Blinking fast when AC is missing. Off when both AC is missing and battery is low.

Keys & Keypad Functions:

0 - 9	The numeric keys will be used to enter user codes, to set telephone numbers, and to issue commands by numbers.
* , #	These keys will be used at telephone numbers as a switch to tone(*) and pause (#) operation when programming telephone numbers. These keys also have meaning when programming the control panel.
<u>MENU</u> NEXT	This key is used on the LED keypad only in conjunction with *,0, and # keys to generate emergency codes (see following page for emergency codes).
SELECT	Pressing this key, followed by a command code number will perform a function. During this time, the PROGRAM indicator will be on.
STAY	Pressing this key when the system is ready to arm, will arm the system's perimeter only. Programming this button as the Quick arm key, allows the end user to arm without a user code.
AWAY	Pressing this key when the system is ready to arm, will arm the system's perimeter and interior. Programming this button as the Quick arm key, allows the end user to arm without a user code. Pressing "AWAY" will also exit you from programming, or escape from every other operation.

4.3 Arming & Disarming

Note: Make sure that the "Program" indicator is "OFF" when you attempt to perform any arming or disarming operations. If the indicator is "ON", one of the following conditions exists:

- 1. Blinking Fast - Remote programming in progress*
- 2. Blinking Slow - User code required*
- 3. Steady On - Keypad is waiting for user action*

To turn the "Program" indicator off (unless remote programming is in progress) press "AWAY".

AWAY (Normal) Arming:

If the ready indicator is blinking slow, the system is not ready to be armed because some zones are not secured (open). Make sure all zones are secured. The "READY" indicator will remain constantly on. Press the "AWAY" key, followed by your user code. If Quick arm is programmed press "AWAY" without a user code. An arming tone will be heard (if programmed) and the "ARMED" indicator will turn on. An exit delay starts, which allows you to leave the premises without creating an alarm. You can also arm the system with your user code only (without pressing the "AWAY" key).

STAY (Perimeter) Arming:

Make sure all perimeter zones are secured (interior zones may be unsecured at this time and "READY" indicator blinking). Press "STAY", followed by your user code. If Quick arm is programmed push "STAY" without a user code. If all perimeter zones are secured, the system will be armed and the "ARMED" indicator will be on.

Disarming:

If the system is armed ("ARMED" indicator is on), the system can be disarmed by keying your user code. The "ARMED" indicator will be turned off.

Force Arming:

If some zones are unsecured (due to motion during the arming operation) but they will be secured within the exit delay (by the time arming is complete), the "READY" indicator will blink, but you can force arm the system by keying "SELECT" '2', '2', '1', and your user code. The central station will be notified that the system was **force** armed. If zones are still unsecured after exit delay has ended, alarm will be sounded! *It is recommended to wait until all zones are secured and arm the system normally.*

Immediate Arming:

To arm immediately and eliminate the entry and exit delays, press "STAY" (for perimeter only) or "AWAY" (for perimeter + interior), according with the desired arming mode, and then press the "*" key.

4.4 Direct Commands

Issuing a command from the LED keypad is performed using the command codes. The procedure is: Press "SELECT", the "Program" indicator will turn on, press the desired operation code (refer to "Command Codes", or to the desired operation description for operation codes). If a user code is required, the "Program" indicator will start to blink. Key in your authorized user code (refer to "User codes" in the next paragraph).

Command Codes:

1X-	Disarm System (1 - 4)	5-	User Codes
21X-	Immediate Arm System X (1 - 4)	61-	View Log
22X-	Force Arm System X (1 - 4)	62-	Print Log
23X-	Perimeter Arm System X (1 - 4)	63-	Clear Log
24X-	Normal Arm System X (1 - 4)	64X-	Detailed Display of System(1 - 4)
25X-	Late to Close - HHMM	65X-	Summarized Display of System (1-4)
31X-	Bypass Zone X (1 - 8)	66-	Detailed display of all Systems
32X-	Unbypass Zone X (1 -8)	67-	Summarized Display of all Systems
41-	Set Time HHMM, MMDDYY	71-	Manual Programming
421-	Walk Test	72-	Default Programming 1
422-	Bell Test	73-	Default Programming 2(Partit.)
423-	Telephone Test	741-	Remote Programming: off hook
424-	RF Test	742-	Remote Programming: Callback
425-	System Test	81-	Reset AUX Relay
426-	Battery Test	82-	Set AUX Relay
43-	Fire Sensor Power Reset	83-	Reset Relay
44-	Bell Cancel	84-	Set Relay
45-	Stop Telephone Call		
46-	Follow Me		

4.5 User Codes

User codes allow execution of operations on the control panel. Most operations will require a user code. 16 user codes are programmable on the Summit 3208 control panel. each is 3 to 6 digits long. Each user code is associated with an authorization level (0 through 15). Changing of these authorization levels is allowed through programming. Authorization level 0 does not allow any operation and is assigned to delete a user code. The following authorization levels will allow the following operations:

Level 1	Allows only normal arming (AWAY), interior & perimeter
Level 2	Allows the same + Perimeter arming
Level 3	Allows the same + Force arming
Level 4	Allows the same + Disarming, Bell canceling, Auxiliary relay operations, and fire sensor power interrupt & reset
Level 5	Allows the same + Log view, Follow me telephone number programming
Level 6	Allows the same + Zone bypassing, Clock change, Open/Close windows, Late to Close, Log clear, and Remote programming
Level 7	Allows the same + User code programming
Level 8	Not available at this time
Level 9	Allows the same + Tests
Level 10	Allows the same + Programming + Keypad Display Change
Level 11	Not available at this time
Level 12	Allows only Test & Programming
Level 13	Allows only Log view & clear
Level 14	Allows only Tests
Level 15	Allows Arm, Disarm, Bell cancel, and creates Duress message to the central station

User codes and partitioning:

User codes are associated with specific systems, or all systems. Assigning a user code to only one system (1 through 4) will default all operations to that system (e.g.: if user code 134 was assigned to system 3, then keying the code 134 will arm/disarm system 3 only, without the need to indicate the system number).

Programming User Codes:

Press "SELECT", '5', followed by your authorized user code. You will have access to user 1 programming. To program another user scroll by pressing "NEXT". The zone indicators (1 through 4) will light to identify the programmed user number, 1 thru 16 (zone 5 will be on to indicate that now you can type the user code):

User 1: None	User 2: 1	User 3: 2	User 4: 1,2
User 5: 3	User 6: 1,3	User 7: 2, 3	User 8: 1,2,3
User 9: 4	User10: 1,4	User 11: 2,4	User12: 1,2,4
User13: 3,4	User 14: 1,3,4	User 15: 2,3,4	User16: 1,2,3,4

Press "SELECT" to scroll through the different fields of the user data (zone 5 "on" indicates that the user code field can be set, zone 6 "on" points to the system field for that user, and zone 7 "on" points to the access level of the user). Key in the data for the desired field when the appropriate zone indicators are on. Press "AWAY" to leave the user programming operation.

User Code Programming Example:

To assign user 3, user code 123, for system 1, with an authorization level of 4:

Select '5' (user programming), followed by your authorized user code

Press "NEXT" until zone #2 (user 3) is on

zone #5 will be on (user code), enter 123

Press "SELECT", zone #6 will be on (system assignment), enter 1

Press "SELECT", zone #7 will be on (authorization level), enter 4, and press "AWAY".

4.6 Emergency & Duress

In case of emergency, 3 types of codes can be generated by holding down two keys at the same time for more than 1 second. These codes will be reported to the central station and will activate the bell if programmed. These combinations are:

MENU & *	Emergency
MENU & 0	Fire alarm emergency
MENU & #	Police emergency

Duress

Duress is sent by keying the duress user code. This user code disarms all programmed systems and stops the bell, while sending a duress code to the central station. Duress user code has authorization level 15.

4.7 Zone Bypassing & Unbypassing

Can be performed only if the system is disarmed ("ARMED" indicator is off). Press "SELECT" key, followed by '3', '1', zone number (1 through 8), and your user code. The "ZONE" display will show bypassed zones and the Bypass indicator will blink. To unbypass a bypassed zone press "SELECT", '3', '2', zone number (1 through 8), and your user code. The zone indicator will not show this zone as bypassed any more.

4.8 Event Log

View / Clear Event Log:

Press the key sequence "SELECT", '6', '1', and key in your user code. The "Program" indicator light will be turned on. If there are any events logged in the event log, the first event will be displayed in the following manner:

Alarm from zone:	The appropriate zone indicator will be on
Trouble from zone:	The appropriate zone indicator will be blinking
Opening System:	Zone indicator 8 and system number (1 - 4) will be on to identify the system number
Closing System (AWAY):	Zone indicator 7 and system number (1 - 4) will be on to identify the system number
Closing System (STAY):	Zone indicator 6 and system number (1 - 4) will be on to identify the system number
Closing System (FORCE):	Zone indicator 5 and system number (1 - 4) will be on to identify the system number
System Trouble:	Trouble indicator will be on, and zone 1 thru 8 indicators will identify the trouble type: 1: AC Trouble, 2: AC Restored, 3: Low Battery, 4: Battery Restored, 5: Tel Line Failure, 6: Tel Line Restored

To scroll event messages, press "MENU/NEXT" key. The next event will be displayed. The display will return to normal status after last event.

After the last event was viewed, or if the log is empty, the "Program" indicator will turn off and normal status display will resume.

To clear the event log, use the following key sequence: "SELECT", '6', '3', followed by your user code. The "Program" indicator will turn on, the command will be executed, and the "Program" indicator will turn off.

4.9 Other Operations

Set Time & Date:

Press "SELECT", '4', '1', followed by your user code, followed by the time in 24 hour format (HHMM), followed by the date (MMDDYY). The panel returns to normal operation.

Fire Sensor Reset:

Press "SELECT", '4', '3', followed by your user code. The power to the fire sensors will be interrupted momentarily, and then restored to reset smoke detector operation.

Bell Cancel:

To stop bell operation either disarm all systems (see partitioned operation, disarming systems), or press "SELECT", '4', '4', followed by your user code. The bell ringing will be stopped immediately.

Stop Communications:

To stop all communications and clear communication message buffers, press "SELECT", '4', '5', followed by your user code. All buffers will be cleared, and all communications (both telephone and RF) will stop immediately.

Follow Me:

To program a telephone number for the "follow me" feature, press "SELECT", '4', '6', and your user code. Continue with keying the desired telephone number, using keys 0 through 9 as digits, key # as pause, and key * to switch to tone (DTMF) dialing. Examples: To program telephone number 9211110 using DTMF dialing, key *9211110. To dial telephone number 9211110 in pulse dialing, and the switch to tone dialing to access extension 231 after a pause, key in 9211110#*231. Up to 16 digits can be entered, including pause (#) and tone (*) keys.

Late To Close:

When the opening/closing windows are operational, the control panel will have to be armed (closed) within the programmed time frame. If the system will be cleared later (since someone is still on the premises), "late to close" condition will have to be reported to the control panel in order to delay the window. To activate "late to close" condition press "SELECT", '2', '5', system number ('1' for non-partitioned control panel, '1' through '4' for partitioned control panel), followed by your user code, and the new approximate closing time in 24 hour format (HHMM). The command will be acknowledged and the system will return to normal operation.

Display Specific System (Partitioned)

Key in the following sequence: "SELECT", '6', '4', and system number ('1' thru '4') you want to display, followed by your user code. The display will change to the selected system. *Note: Make sure that the desired system is displayed on the keypad, or you will see other systems status mixed. Do not use multiple system display with the LED keypad.*

System Arming & Disarming (Partitioned)

All arming modes are supported for all 4 systems. Pressing "STAY" or "AWAY" or simply keying your user code to arm the displayed system only, or to the system to which your user code is assigned. To disarm, your user code must be entered.

If you want to arm/disarm other systems than displayed, perform the following:

- Disarm "SELECT" '1', system number (1 thru 4), and user code
- Normal Arm "SELECT", '2', '4', system number (1 thru 4), and user code
- Perimeter Arm "SELECT" '2', '3', system number (1 thru 4), and user code
- Force Arm "SELECT" '2', '2', system number (1 thru 4), and user code
- Immediate Arm "SELECT" '2', '1', system number (1 thru 4), and user code

If your user code is assigned to only one system, that specific system will be armed or disarmed by your command if you do not specify any system. If you specify a system to which your user code is not assigned, your user code will be denied.

5. PROGRAMMING

5.1 General

The Summit 3208 Control panel may be programmed using either the 3108 LCD or 3106 LED Keypad. Remote Programming may be done using Electronics Line Remote Upload/Download Software.

(For using LCD or LED keypads, refer to chapters 3.2 & 4.2 for keypad layouts).

5.2 Programming Procedure

The Keypad programming procedure uses the following process:

- Use the programming information below, fill in the appropriate fields on the programming form for your application.
- Select a default program (default program 1 for non-partitioned control panel or default program 2 for partitioned control panel) and program it into the control panel.
- Use the LCD or LED keypad to enter the data from the programming form into the control panels parameter memory.

The control panel has over 500 parameter addresses. All programming is stored in the EEPROM (non-volatile) memory. Most parameters will not need to be changed. Selecting and loading a default program will make programming an easier task, requiring only the re-programming of some basic parameters (such as telephone numbers, account numbers, etc..). The control panel can be programmed to custom configurations by the individual installer.

When a default program is selected and loaded, all parameters are loaded. All that has to be changed are the parameters required to customize your application. All other parameters, although not programmed by the installer, are already programmed to the appropriate values by the default program.

DEFAULT VALUES ARE LISTED IN THE "DEFAULT PARAMETERS" PAGES. IF THESE VALUES ARE APPROPRIATE FOR YOUR INSTALLATION, IT IS NOT NECESSARY TO CHANGE THEM OR ENTER THEM ON THE FORM.

The programming form indicates the specific address for each programmable parameter. A description of the function programmable at that address is given in detail and possible data values which control the function, are given. Programming changes are done by entering new values at the appropriate address.

Entering Programming Mode

Make sure the PROGRAM indicator is off (on LED keypad).

If it is on, press **AWAY**

To enter programming mode, press **SELECT** **7** **1**

The PROGRAM indicator (on LED keypad) will start to blink, indicating your passcode is required

Key in your passcode (default passcode is **1** **2** **3** **4** **5** **6**)

The PROGRAM indicator (on LED keypad) will turn on constantly. If you have not pressed any key for more than 2 minutes - you will automatically exit programming mode.

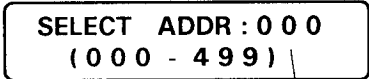
Exiting Programming Mode

To exit programming mode, press **AWAY**

The PROGRAM indicator will turn off.

Entering parameters using the LCD keypad

After entering programming mode, or after pressing **SELECT** The display will show



SELECT ADDR : 0 0 0
(0 0 0 - 4 9 9)

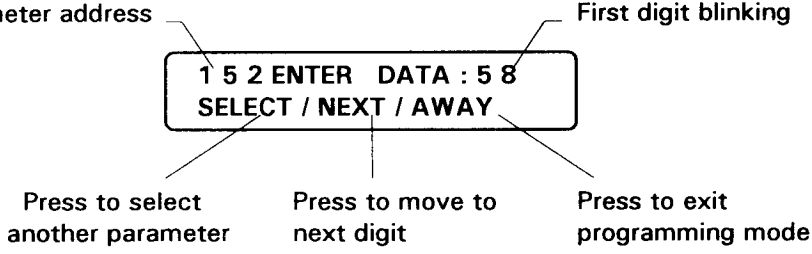
First digit blinking, any key will change this digit

Key in the 3 digit parameter address (as you will be instructed for every parameter).

The blinking digit can be modified.

Press **NEXT** to move to the next digit, or press ***** to move to the previous digit.

The display will now show the current parameter value in the following way:



Parameter address First digit blinking

1 5 2 ENTER DATA : 5 8
SELECT / NEXT / AWAY

Press to select another parameter Press to move to next digit Press to exit programming mode

(Press * to move to the previous digit)

Entering parameters using the LED keypad

After entering programming mode, press

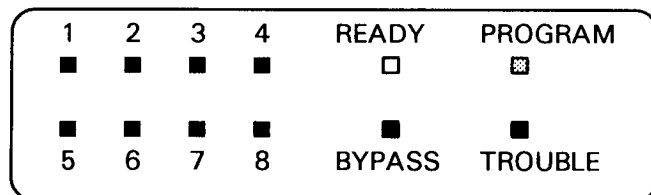
SELECT

and type the requested three digit parameter address

(e.g. **1** **5** **2**).

(This operation can be performed any time to select another parameter by it's address).

Zone Indicators



The value of the 1st digit of the data is displayed on the zone indicators as follows:

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To change the digit and move to display / modify the 2nd digit press the desired digit

(**0** to **9** , **#** **0** for A, **#** **1** for B, **#** **2** for C,

**3** for D, **#** **4** for E, and **#** **5** for F)

The parameter will be modified, and the display will show the next digit.

To move to display the next digit of the parameter without modifying, press

MENU

NEXT

To move to display the previous digit of the parameter, press

SUMMIT 3208 PROGRAMMING FORM

Customer: _____

Tel: _____

Address: _____

Installer: _____

Date: ____/____/____

Time: ____:____

ZONE DEFINITIONS

000 zone 1 (58 OC 10 05) _____ (system: _____ LCD: _____)
004 zone 2 (45 OC 20 05) _____ (system: _____ LCD: _____)
008 zone 3 (00 08 30 75) _____ (system: _____ LCD: _____)
012 zone 4 (00 08 40 05) _____ (system: _____ LCD: _____)
016 zone 5 (00 08 50 05) _____ (system: _____ LCD: _____)
020 zone 6 (00 08 60 05) _____ (system: _____ LCD: _____)
024 zone 7 (00 08 70 05) _____ (system: _____ LCD: _____)
028 zone 8 (00 00 86 A5) _____ (system: _____ LCD: _____)

LCD CUSTOM MESSAGES (60 - 63)

416 message 60 (none) _____
424 message 61 (none) _____
432 message 62 (none) _____
440 message 63 (none) _____

KEYPAD PARAMETERS

136 keypad 1 (64 B8) _____ (area: _____)
138 keypad 2 (64 B8) _____ (area: _____)
140 keypad 3 (64 B8) _____ (area: _____)
142 keypad 4 (64 B8) _____ (area: _____)
144 keypad 5 (64 B8) _____ (area: _____)
146 keypad 6 (64 B8) _____ (area: _____)
148 keypad 7 (64 B8) _____ (area: _____)
150 keypad 8 (64 B8) _____ (area: _____)

CUTOFF TIMERS

382 exit system 1 (05) _____ (_____ sec) 386 entry timer 1 (52) _____ (_____ sec)
383 exit system 2 (05) _____ (_____ sec) 387 entry timer 2 (65) _____ (_____ sec)
384 exit system 3 (05) _____ (_____ sec) 388 entry timer 3 (77) _____ (_____ sec)
385 exit system 4 (05) _____ (_____ sec)
413 bell cutoff (08) _____ (_____ sec/min)

TELEPHONE PARAMETERS

240 telephone line (45 A5) _____
152 telephone number 1 (none) _____
244 protocol (01 4D) _____ (protocol name: _____)
192 account no. area 1 (9999) _____ 195 account no. area 2 (9999) _____
198 account no. area 3 (9999) _____ 201 account no. area 4 (9999) _____

TELEPHONE PARAMETERS (cont'd)

160 telephone number 2 (none) _____
 246 protocol (01 4D) _____ (protocol name: _____)
 204 account no. sys. 1 (9999) _____ 207 account no. sys. 2 (9999) _____
 210 account no. sys. 3 (9999) _____ 213 account no. sys. 4 (9999) _____

168 telephone number 3 (none) _____
 248 protocol (01 4D) _____ (protocol name: _____)
 216 account no. sys. 1 (9999) _____ 219 account no. sys. 2 (9999) _____
 222 account no. sys. 3 (9999) _____ 225 account no. sys. 4 (9999) _____

176 telephone number 4 (none) _____
 250 protocol (00 43) _____ (protocol name: _____)
 228 account no. sys. 1 (9999) _____ 231 account no. sys. 2 (9999) _____
 234 account no. sys. 3 (9999) _____ 237 account no. sys. 4 (9999) _____

TELEPHONE EVENT CODES

452 zone burg. alarm	(00) _____	466 failed to open	(00) _____
453 zone burg. restore	(00) _____	467 failed to close	(00) _____
454 burg. zone trouble	(00) _____	468 AC loss	(00) _____
455 burg. trouble restore	(00) _____	469 AC resotral	(00) _____
456 zone fire alarm	(00) _____	470 low battery	(00) _____
457 zone fire restore	(00) _____	471 battery restoral	(00) _____
458 fire zone trouble	(00) _____	472 periodic test	(30) _____
459 fire trouble restore	(00) _____	473 log 75% full	(00) _____
460 zone tamper	(00) _____	474 clock change	(00) _____
461 zone emergency	(00) _____	475 bell cutoff	(00) _____
462 normal opening	(00) _____	476 medical key	(00) _____
463 normal closing	(00) _____	477 fire key	(00) _____
464 force closing	(00) _____	478 police key	(00) _____
465 perimeter closing	(00) _____	479 duress code	(00) _____

OPENING & CLOSING TIME WINDOWS

389 opening window 1 (3B) _____ (time: ____:____ size \pm 15 / 30 / 45 / 60 min)
 390 opening window 2 (43) _____ (time: ____:____ size \pm 15 / 30 / 45 / 60 min)
 391 opening window 3 (4B) _____ (time: ____:____ size \pm 15 / 30 / 45 / 60 min)
 392 closing window 1 (6B) _____ (time: ____:____ size \pm 15 / 30 / 45 / 60 min)
 393 closing window 2 (83) _____ (time: ____:____ size \pm 15 / 30 / 45 / 60 min)
 394 closing window 3 (8B) _____ (time: ____:____ size \pm 15 / 30 / 45 / 60 min)
 395 closing window 4 (93) _____ (time: ____:____ size \pm 15 / 30 / 45 / 60 min)
 396 monday windows (0000) _____ (sys. 1, sys. 2, sys. 3, sys. 4)
 398 tuesday windows (0000) _____ (sys. 1, sys. 2, sys. 3, sys. 4)
 400 wednesday windows (0000) _____ (sys. 1, sys. 2, sys. 3, sys. 4)
 402 thursday windows (0000) _____ (sys. 1, sys. 2, sys. 3, sys. 4)
 404 friday windows (0000) _____ (sys. 1, sys. 2, sys. 3, sys. 4)
 406 saturday windows (0000) _____ (sys. 1, sys. 2, sys. 3, sys. 4)
 408 sunday windows (0000) _____ (sys. 1, sys. 2, sys. 3, sys. 4)

MESSAGE ROUTINGS

284 burglary alarm (00 12 00 00 8C) _____
 (Tel 1: __, Tel 2: __, Tel 3: __, Tel 4: __, Log: __, Bell: __)
289 burglary trouble (00 12 00 00 80) _____
 (Tel 1: __, Tel 2: __, Tel 3: __, Tel 4: __, Log: __, Bell: __)
294 fire alarm (00 12 00 00 88) _____
 (Tel 1: __, Tel 2: __, Tel 3: __, Tel 4: __, Log: __, Bell: __)
299 fire trouble (00 12 00 00 80) _____
 (Tel 1: __, Tel 2: __, Tel 3: __, Tel 4: __, Log: __, Bell: __)
304 open/close (00 12 00 00 80) _____
 (Tel 1: __, Tel 2: __, Tel 3: __, Tel 4: __, Log: __, Bell: __)
309 service (00 12 00 00 80) _____
 (Tel 1: __, Tel 2: __, Tel 3: __, Tel 4: __, Log: __, Bell: __)

PERIODIC TEST & MISCELANEOUS

491 periodic test (00 00 C0) _____ (sync. by crystal / AC)
 (none / 1hour / 6hour / 12hour / daily / weekly / monthly , every _____ , at ____:____)
497 AC loss report delay (3C) _____ (_____ minutes)
498 fire sensor & swinger mode (08) _____ (swinger _____)
496 remote programmer (02) _____ (_____ rings, _____ callback)
184 callback number (none) _____
378 remote programmer access code (174259) _____
494 arming options (18) _____
448 LSCP units supervision (00 00 00 00) _____
 (00:Y/N 01:Y/N 02:Y/N 03:Y/N 04:Y/N 05:Y/N 06:Y/N 07:Y/N)
 (08:Y/N 09:Y/N 10:Y/N 11:Y/N 12:Y/N 13:Y/N 14:Y/N 15:Y/N)
 (16:Y/N 17:Y/N 18:Y/N 19:Y/N 20:Y/N 21:Y/N 22:Y/N 23:Y/N)
 (24:Y/N 25:Y/N 26:Y/N 27:Y/N 28:Y/N 29:Y/N 30:Y/N 31:Y/N)

USER CODES

314 user code 1: (000000 00) _____ (system __, authorization __)
318 user code 2: (000000 00) _____ (system __, authorization __)
322 user code 3: (000000 00) _____ (system __, authorization __)
326 user code 4: (000000 00) _____ (system __, authorization __)
330 user code 5: (000000 00) _____ (system __, authorization __)
334 user code 6: (000000 00) _____ (system __, authorization __)
338 user code 7: (000000 00) _____ (system __, authorization __)
342 user code 8: (000000 00) _____ (system __, authorization __)
346 user code 9: (000000 00) _____ (system __, authorization __)
350 user code 10: (000000 00) _____ (system __, authorization __)
354 user code 11: (000000 00) _____ (system __, authorization __)
358 user code 12: (000000 00) _____ (system __, authorization __)
362 user code 13: (000000 00) _____ (system __, authorization __)
366 user code 14: (000000 00) _____ (system __, authorization __)
370 user code 15: (000000 00) _____ (system __, authorization __)
374 user code 16: (123456 A0) _____ (system __, authorization __)

Notes:

5.3 Parameters Description

ADDRESS 000-003 ZONE # 1 PARAMETERS

These addresses control zone #1. The following functions can be programmed; LCD message, the delay if any, system assignment (for partitioned panel), chime or no chime, bypassable or not, swinger settings, pulse counter setting, and loop speed, loop type, zone ID, siren activation, communication to central station, and zone function.

- **Address 000: LCD descriptors and delays for zone #1**

Default: LCD message "FRONT DOOR", delay #1 (set at address 386 to 45 seconds).

Select a number from the table below that reflects your desired zone descriptor for this zone, and the entry delay choice for this zone. Fill in the two digit number for zone 1.

Entry delay choices are set at address 386, 387, 388. Custom LCD messages are entered at address 416-447.

no delay	delay #1	delay #2	delay #3	descriptor
00	40	80	C0	no message
01	41	81	C1	1ST FLOOR
02	42	82	C2	2ND FLOOR
03	43	83	C3	3RD FLOOR
04	44	84	C4	4TH FLOOR
05	45	85	C5	BACK DOOR
06	46	86	C6	BASEMENT
07	47	87	C7	BATHROOM
08	48	88	C8	BEDROOM
09	49	89	C9	BEDROOM 1
0A	4A	8A	CA	BEDROOM 2
0B	4B	8B	CB	BEDROOM 3
0C	4C	8C	CC	COMPUTER
0D	4D	8D	CD	CONFERENCE
0E	4E	8E	CE	CORRIDOR
0F	4F	8F	CF	DINING
10	50	90	D0	DOOR
11	51	91	D1	EAST
12	52	92	D2	EMERGENCY
13	53	93	D3	ENTRANCE
14	54	94	D4	EXIT
15	55	95	D5	EXTERIOR
16	56	96	D6	FAMILY
17	57	97	D7	FILE ROOM
18	58	98	D8	FRONT DOOR
19	59	99	D9	GARAGE
1A	5A	9A	DA	GUEST ROOM
1B	5B	9B	DB	HALL
1C	5C	9C	DC	HOLDUP
1D	5D	9D	DD	INTERIOR
1E	5E	9E	DE	KITCHEN
1F	5F	9F	DF	LAUNDRY

no delay	delay #1	delay #2	delay #3	descriptor
20	60	A0	E0	LOBBY
21	61	A1	E1	LIVNG ROOM
22	62	A2	E2	MSTR BEDRM
23	63	A3	E3	MAT
24	64	A4	E4	MEDICAL
25	65	A5	E5	NORTH
26	66	A6	E6	NURSERY
27	67	A7	E7	OFFICE
28	68	A8	E8	PANIC
29	69	A9	E9	PERIMETER
2A	6A	AA	EA	POOL
2B	6B	AB	EB	ROOF
2C	6C	AC	EC	ROOM
2D	6D	AD	ED	ROOM 1
2E	6E	AE	EE	ROOM 2
2F	6F	AF	EF	ROOM 3
30	70	B0	F0	ROOM 4
31	71	B1	F1	SHIPPING
32	72	B2	F2	SHOP
33	73	B3	F3	SLIDE DOOR
34	74	B4	F4	SOUTH
35	75	B5	F5	STAIRS
36	76	B6	F6	STORAGE
37	77	B7	F7	STUDY
38	78	B8	F8	VAULT
39	79	B9	F9	WAREHOUSE
3A	7A	BA	FA	WEST
3B	7B	BB	FB	WINDOW
3C	7C	BC	FC	(custom #1)
3D	7D	BD	FD	(custom #2)
3E	7E	BE	FE	(custom #3)
3F	7F	BF	FF	(custom #4)

- **Address 001: System ID, chime, bypassable or not, swinger setting, pulse counter setting, and loop speed for zone # 1**

Default: System 1, chime, bypassable, no swinger, no pulse count, slow loop speed.

Loop speed is entered as a value in the first digit position. For a slow loop response(150ms)(motion detectors and contacts) the value is 0, for fast loop response(50ms)(glass breaks) the value is 8. See the table below to and choose a value that is appropriate, this will be the value for the first digit at this address.

0	slow loop,no pulse count, no swinger
1	slow loop, no pulse count, swinger active, (see address 498 to set swinger)
2	slow loop, pulse counter #1,(refer to address #386), no swinger
3	slow loop, pulse counter #1, swinger active
4	slow loop, pulse counter #2, no swinger
5	slow loop, pulse counter #2, swinger active
6	slow loop, pulse counter #3, no swinger
7	slow loop, pulse counter #3, swinger active
8	fast loop, no pulse count, no swinger
9	fast loop, no pulse count, swinger active
A	fast loop, pulse counter #1, no swinger
B	fast loop, pulse counter #1, swinger active
C	fast loop, pulse counter #2, no swinger
D	fast loop, pulse counter #2, swinger active
E	fast loop, pulse counter #3, no swinger
F	fast loop, pulse counter #3, swinger active

For bypassability, chime and system assigned to, choose a number that is appropriate from the table listed below. This will be the value for the second digit.

Non-bypassable, no-chime, assigned to system 1	0
Non-bypassable, no chime, assigned to system 2	1
Non-bypassable, no chime, assigned to system 3	2
Non-bypassable, no chime, assigned to system 4	3
Non-bypassable, chime, assigned to system 1	4
Non-bypassable, chime, assigned to system 2	5
Non-bypassable, chime, assigned to system 3	6
Non-bypassable, chime, assigned to system 4	7
Bypassable, no chime, assigned to system 1	8
Bypassable, no chime, assigned to system 2	9
Bypassable, no chime, assigned to system 3	A
Bypassable, no chime, assigned to system 4	B
Bypassable, chime, assigned to system 1	C
Bypassable, chime, assigned to system 2	D
Bypassable, chime, assigned to system 3	E
Bypassable, chime, assigned to system 4	F

- **Address 002: Loop type, and zone ID for zone #1**

Default: normally closed, no end of line resistor, zone ID 1

Zone ID is the number that will be associated with messages from this zone whenever messages are sent to the central station regarding this zone. Usually the zone ID will be the same as the zone number. This number is the value in the first digit at this address. Select the type of loop for this zone from the list below. This is the value of the second digit.

Normally Close contacts, no end-of-line resistor	0
Normally Open contacts, no end-of-line resistor	1
Supervised zone with end-of-line resistor	6

- **Address 003: Siren activation on an alarm, whether a signal is sent to the central station, and the zone function for zone #1.**

Default: local siren/bell is activated, signal to central station, perimeter zone.

Select a zone function from the following list. This will be the value for the first digit.

Perimeter normal zone	0
Perimeter primary zone	1
Perimeter secondary zone	2
Perimeter follower zone	3
Interior normal zone	4
Interior primary zone	5
Interior secondary zone	6
Interior follower zone	7
Fire zone	A
Emergency/Medical zone	B
Holdup zone	C
On/Off switch input	F

Select the type of output you would like for a zone when an alarm occurs. This will be the value for the second digit.

Do not activate bell, do not send message to central station	0
Activate bell only, do not send message to central station	1
Do not activate bell, send message to central station	4
Activate bell and send message to central station	5

ADDRESS 004-007: same as above for zone #2 *Default: System 1, chime, bypassable, no swinger, no pulse count, slow loop speed, normally closed no end of line resistor, zone ID # 2, local siren/bell is activated, message sent to central station, perimeter zone.*

ADDRESS 008-011: same as above for zone #3 *Default: System 1, no chime, bypassable, no swinger, no pulse count, slow loop speed, normally closed no end of line resistor, zone ID # 3, local siren/bell is activated, message sent to central station, interior follower zone.*

ADDRESS 012-015: same as above for zone #4 *Default: System 1, no chime, bypassable, no swinger, no pulse count, slow loop speed, normally closed no end of line resistor, zone ID # 4, local siren/bell is activated, message sent to central station, perimeter zone.*

ADDRESS 016-019 : same as above for zone #5 *Default: System 1, no chime, bypassable, no swinger, no pulse count, slow loop speed, normally closed no end of line resistor, zone ID # 5, local siren/bell is activated, message sent to central station, perimeter zone.*

ADDRESS 020-023 : same as above for zone #6 *Default: System 1, no chime, bypassable, no swinger, no pulse count, slow loop speed, normally closed no end of line resistor, zone ID # 6, local siren/bell is activated, message sent to central station, perimeter zone.*

ADDRESS 024-027: same as above for zone #7 *Default: System 1, no chime, bypassable, no swinger, no pulse count, slow loop speed, normally closed no end of line resistor, zone ID # 7, local siren/bell is activated, message sent to central station, perimeter zone.*

ADDRESS 028-031: same as above for zone #8 *Default: System 1, no chime, non-bypassable, no swinger, no pulse count, slow loop speed, normally closed with end of line resistor, zone ID #8, local siren/bell is activated, message sent to central station, fire zone.*

ADDRESS 136-137: Keypad # 1. The arming and disarming beeps, battery and ac loss beeps, quick arm, system displays and whether the lcd displays are detailed or not, and when the backlighting is on.

Address 136: Beeps for batt low, ac loss, arm&disarm beeps, and if 1 key arming is allowed.

Default: no beeps for battery low or AC loss, 3 beeps at disarming, 1 beep at arming, 1 key arming is allowed.

Select an arming and disarming tone from the list below. This will be the value of the first digit at this address.

0	no arm beep, no disarm beep
1	no arm beep, 1 disarm beep
2	no arm beep, 3 disarm beeps
3	no arm beep, continuous on disarm
4	1 arm beep, no disarm beep
5	1 arm beep, 1 disarm beep
6	1 arm beep, 3 disarm beep
7	1 arm beep, continuous on disarm
8	3 arm beeps, no disarm beep
9	3 arm beeps, 1 disarm beep
A	3 arm beeps, 3 disarm beeps
B	3 arm beeps, continuous on disarm
C	continuous on arm, no disarm beep
D	continuous on arm, 1 disarm beep
E	continuous on arm, 3 disarm beeps
F	continuous on arm, continuous on disarm

Select a value that is appropriate from the following list. This will be the value for the second digit.

No 1 key operations, No beeps	0
No 1 key operations, Beep if battery is low	1
No 1 key operations, Beep if ac is lost	2
No 1 key op's, Beep for low batt & ac loss	3
1 key arm, No beeps	4
1 key arm and beep if low batt	5
1 key arm and beep if ac loss	6
1 key arm and beep for low batt&ac loss	7

• **Address 137: Systems displayed on the keypads and when the backlight is on.**

Default: system 1 displayed in detail, backlighting is on during operation and during open and close windows.

Select from the list below the times when you want the backlighting on. This will be the value for the first digit.

Backlight on during closing window	1
Backlight on during opening window	2
On during opening and closing window	3
Backlight on at all times	4
Backlight on after keystroke	8
After keystroke and closing window	9
After keystroke and opening window	A
After keystroke and during windows	B

Choose an appropriate display from the list below. The value is the second digit at address 137. System to be displayed (for partitioned panel) by keypad, and type of display:

System 1, summarized	0
System 2, summarizes	1
System 3, summarized	2
System 4, summarized	3
All Systems, summarized	4
System 1, detailed	8
System 2, detailed	9
System 3, detailed	A
System 4, detailed	B
All Systems, detailed	C

ADDRESS 138-139: same as above keypad #2 *Default: no beeps for battery low or AC loss, 3 beeps at disarming, 1 beep at arming, 1 key arming is allowed, system 1 displayed in detail, backlighting is on during operation and during open and close windows.*

ADDRESS 140-141: same as above keypad#3 *Default: no beeps for battery low or AC loss, 3 beeps at disarming, 1 beep at arming, 1 key arming is allowed, system 1 displayed in detail, backlighting is on during operation and during open and close windows.*

ADDRESS 142-143: same as above keypad#4 *Default: no beeps for battery low or AC loss, 3 beeps at disarming, 1 beep at arming, 1 key arming is allowed, system 1 displayed in detail, backlighting is on during operation and during open and close windows.*

ADDRESS 144-145: same as above keypad#5 *Default: no beeps for battery low or AC loss, 3 beeps at disarming, 1 beep at arming, 1 key arming is allowed, system 1 displayed in detail, backlighting is on during operation and during open and close windows.*

ADDRESS 146-147: same as above keypad#6 *Default: no beeps for battery low or AC loss, 3 beeps at disarming, 1 beep at arming, 1 key arming is allowed, system 1 displayed in detail, backlighting is on during operation and during open and close windows.*

ADDRESS 148-149: same as above keypad #7 *Default: no beeps for battery low or AC loss, 3 beeps at disarming, 1 beep at arming, 1 key arming is allowed, system 1 displayed in detail, backlighting is on during operation and during open and close windows.*

ADDRESS 150-151: same as above keypad #8 *Default: no beeps for battery low or AC loss, 3 beeps at disarming, 1 beep at arming, 1 key arming is allowed, system 1 displayed in detail, backlighting is on during operation and during open and close windows.*

ADDRESS 152-159: Telephone #1(primary) is entered here. Successive locations are used to enter up to 16 digits. End the telephone number with the digit F (#5). To enter a 3 second pause enter C (#2), for a 7 second pause enter D (#3), to switch from pulse to tone part way through the number, enter E (#4). Other telephone data and parameters will be entered at later addresses.

Default: no number has been entered

ADDRESS 160-167: Telephone # 2(backup) is entered here.*Default: no number has been entered*

ADDRESS 168-175: Telephone #3 is entered here.*Default: no number has been entered*

ADDRESS 176-183: Telephone #4 is entered here.*Default: no number has been entered*

ADDRESS 184-191: Telephone number for remote programming callback is entered here.
Default: no number has been entered

ADDRESS 192-194: Account number for telephone #1 System #1

Default: 9999

This is the account number that will be transmitted to the central station when telephone number 1 is dialed. These are entered in sequence beginning at address 192. Be sure to enter the account number on the back-up phone number also (and any other telephone numbers used). If the system is not partitioned - only account numbers for system 1 have to be programmed. (For partitioned systems program account numbers for all systems).

ADDRESS 195-197: Account # for tel#1, System #2 *Default: 9999*

ADDRESS 198-200: Account # for tel#1, System #3 *Default: 9999*

ADDRESS 201-203: Account # for tel#1, System #4 *Default: 9999*

ADDRESS 204-206: Account # for tel#2, System #1 *Default: 9999*

ADDRESS 207-209: Account # for tel#2, System #2 *Default: 9999*

ADDRESS 210-212: Account # for tel#2, System #3 *Default: 9999*

ADDRESS 213-215: Account # for tel#2, System #4 *Default: 9999*

ADDRESS 216-218: Account # for tel#3, System #1 *Default: 9999*

ADDRESS 219-221: Account # for tel#3, System #2 *Default: 9999*

ADDRESS 222-224: Account # for tel#3, System #3 *Default: 9999*

ADDRESS 225-227: Account # for tel#3, System #4 *Default: 9999*

ADDRESS 228-230: Account # for tel#4, System #1 *Default: 9999*

ADDRESS 231-233: Account # for tel#4, System #2 *Default: 9999*

ADDRESS 234-236: Account # for tel#4, System #3 *Default: 9999*

ADDRESS 237-239: Account # for tel#4, System #4 *Default: 9999*

ADDRESS 240-241: Telephone line parameters; timeout for acknowledgments, phone supervision, pulse or tone dialing, dial tone wait, message attempts, and dialing attempts.

- **Address 240: Phone supervision, pulse or tone dialing, timeouts for acknowledgment.**

Default: No phone supervision alarm, tone dialing, 15 second timeout for ack #1, 3 second timeout for ack #2.

Phone supervision is monitoring the existence of the phone line. The amount of time that the line is missing before an alarm is created is programmable at this address. Choose an appropriate time and dialing mode from the list below. This number will be the value for the first digit at this address.

- | | |
|---|-----------------------------|
| 0 | Pulse, no supervision |
| 1 | Pulse, 1 minutes |
| 2 | Pulse, 3 minutes |
| 3 | Pulse, 10 minutes |
| 4 | Tone (DTMF), no supervision |
| 5 | Tone (DTMF), 1 minute |
| 6 | Tone (DTMF), 3 minutes |
| 7 | Tone (DTMF), 10 minutes |

Acknowledgments are tones that are given between the central station communicator and the control panel in transmitting an alarm. These ensure that an alarm was sent and understood by the central station. There are 2 acknowledgment tones. Choose an appropriate timeout from the list below. The value that will be the second digit for this address.

Ack #1	Ack #2	Value
2sec	2sec	0
2sec	3sec	1
2sec	5sec	2
2sec	10sec	3
15sec	2sec	4
15sec	3sec	5
15sec	5sec	6
15sec	10sec	7
30sec	2sec	8
30sec	3sec	9
30sec	5sec	A
30sec	10sec	B
60sec	2sec	C
60sec	3sec	D
60sec	5sec	E
60sec	10sec	F

- **Address 241: Dial tone wait, anti jamming, message& dialing attempts.**

Default: 5 second wait for a dialtone, start dialing on dial tone, 2 second anti-jamming wait, 5 message attempts, 5 dialing attempts.

The communicator can be programmed to attempt to dial multiple times and to attempt a transmissions of a message multiple times. It will dial up to the preset amount of times or until a successful communication is achieved. It will attempt to send a message up to the preset number of attempts or until a proper acknowledgment is received from the central station. Choose the appropriate amount of dialing and message attempts from below. This is the value for the first digit at this address.

Dialing Attempts	Message Attempts	Value
1	1	0
1	2	1
1	5	2
1	10	3
2	1	4
2	2	5
2	5	6
2	10	7
5	1	8
5	2	9
5	5	A
5	10	B
10	1	C
10	2	D
10	5	E
10	10	F

The amount of time you want the panel to wait before it attempts a communication is programmed here. This will ensure that adequate time has elapsed to achieve a dial tone. It can further be set to either wait the entire length of time or to begin when a dial tone is present. The time length from when the panel seizes the line to when it goes off hook to listen for a dial tone (anti-jamming) is also programmable from this address. Choose the values you need to find the value for the second digit at this address.

- 0 dial after 1 second, 2 second anti-jam
- 1 dial after 5 seconds, 2 second anti-jam
- 2 dial after 10 seconds, 2 second anti-jam
- 3 dial after 20 seconds, 2 second anti-jam
- 4 dial after 1 seconds or if dial tone present, 2 second anti-jam
- 5 dial after 5 seconds or if dial tone present, 2 second anti-jam
- 6 dial after 10 seconds or if dial tone present, 2 second anti-jam
- 7 dial after 20 seconds or if dial tone present, 2 second anti-jam
- 8 dial after 1 second, 10 second anti-jam
- 9 dial after 5 seconds, 10 second anti-jam
- A dial after 10 seconds, 10 second anti-jam
- B dial after 20 seconds, 10 second anti-jam
- C dial after 1 second or if dial tone present, 10 second anti-jam
- D dial after 5 seconds or if dial tone present, 10 second anti-jam
- E dial after 10 seconds or if dial tone present, 10 second anti-jam
- F dial after 20 seconds or if dial tone present, 10 second anti-jam

ADDRESS 244-245: Telephone #1 protocol details.

Default: 4X2 fast

Every telephone number is associated with a telephone communication protocol. Select the appropriate **protocol** for every telephone number (you will usually use only telephone numbers 1 and 2, so you will only have to program them). Select the 4 digit codes associated with the required protocol for your central station. For telephone number 1 both address 244 and 245 must be completed. The first group of 2 digits are for address 244, and the second group of 2 digits are for address 245.

4 x 2 slow (10PPS)	01 1C
4 x 2 fast (20PPS)	01 4D
4 x 2 fast + parity (Radionics)	00 CD
Ademco slow	03 14
Sescoa (3 x 2 extended)	03 45
Silent Knight slow (3 x 1)	01 10
Scantronic (4 x 1 fast)	01 19
Follow Me	00 43

ADDRESS 246-247: Protocol for telephone #2 Default: 4X2 fast

ADDRESS 248-249: Protocol for telephone #3 Default: 4X2 fast

ADDRESS 250-251: Protocol for telephone #4 Default: Follow me

ADDRESS 284-288: Message routing for burglary alarm messages.

Burglary alarm messages (including burglary alarm, restore, panic, police, duress) can be routed in several ways. Each telephone number can be programmed to be a primary, a back-up, a duplicate, or to not report. A primary will be the first number that the communicator will try to dial. If it fails on the primary number, it will call the back-up number. A duplicate number is used to report the same event to two different locations. The duplicate number will be called only after a successful primary report to the central station.

- **Address 284: Message routing for telephone # 3 and # 4.**

Default: no message on telephone number 3 or number 4.

Choose the appropriate type of reporting for telephone #3 and #4 from the list below. The value for telephone #4 is the value for the first digit at this address. The value for telephone #3 is the value for the second digit at this address.

No message	0
Back-up	1
Primary	2
Duplicate	3

- **Address 285: Message routing for telephone #1 and #2**

Default: Telephone number 1 is primary, telephone number 2 is backup.

Choose the appropriate type of reporting for telephone #1 and #2 from the list below. The value for telephone #2 is the value for the first digit at this address. The value for telephone #1 is the value for the second digit at this address.

No message	0
Back-up	1
Primary	2
Duplicate	3

- **Address 288: Bell/siren #1 activation and pattern for burglary alarms, log entry.**

Default: siren # 1 is steady, event is entered into the log.

When an alarm is activated, you have several choices as to what happens with a local siren. It can be inactive, pattern #1(California standard-10sec on, 5 sec off), pattern #2(1 second on, 1 second off) or a steady output. Choose an option for burglar alarms from the list below. Bell/siren #1 is the second digit at this address, and whether the event is entered in the log is the first digit value at this address. *Note: Fire alarm bell/siren outputs will be programmed at address 298.*

siren inactive	0
siren pattern #1	4
siren pattern #2	8
steady siren	C

To have the event recorded in log enter an 8 in the first digit position, otherwise enter 0.

ADDRESS 289-293: Message routing for non fire zone trouble messages.

Non-fire trouble messages (including burglary zones trouble and restore messages) can be routed in several ways. These parameters will be programmed in a similar way as the alarm messages were, according to the following addresses.

- **Address 289: Message routing for telephone #3 and #4.**

Default: no message on telephone number 3 or number 4.

(The same as programming address 284).

- **Address 290: Message routing for telephone #1 and #2.**

Default: Telephone number 1 is primary, telephone number 2 is backup.

(The same as programming address 285).

- **Address 293: Bell/siren #1 activation and pattern for non fire zone troubles, log entry.**
Default: siren # 1 is inactive, event is entered into the log.
(The same as programming address 288).

ADDRESS 294-298: Message routings for fire alarm messages.

Fire alarm messages (including fire alarm and restore, fire emergency) can be routed in several ways. These parameters will be programmed in a similar way as the alarm messages were, according to the following addresses.

- **Address 294: Message routing for telephone #3 and #4.**

Default: no message on telephone number 3 or number 4.
(The same as programming address 284).

- **Address 295: Message routing for telephone #1 and #2.**

Default: Telephone number 1 is primary, telephone number 2 is backup.
(The same as programming address 285).

- **Address 298: Bell/siren #1 activation and pattern for fire alarms, log entry.**

Default: siren # 1 is pattern #2, event is entered into the log.
(The same as programming address 288).

ADDRESS 299-303: Message routings for fire trouble messages.

Fire trouble messages (including fire zone trouble and restore messages) can be routed in several ways. These parameters will be programmed in a similar way as the alarm messages were, according to the following addresses.

- **Address 299: Message routing for telephone #3 and #4.**

Default: no message on telephone number 3 or number 4.
(The same as programming address 284).

- **Address 300: Message routing for telephone #1 and #2.**

Default: Telephone number 1 is primary, telephone number 2 is backup.
(The same as programming address 285).

- **Address 303: Bell/siren #1 activation and pattern for fire trouble, log entry.**

Default: siren # 1 is inactive, event is entered into the log.
(The same as programming address 288).

ADDRESS 304-308: Message routings for open and close messages.

Open and close messages (including opening, closing - normal, perimeter, force) can be routed in several ways. These parameters will be programmed in a similar way as the alarm messages were, according to the following addresses.

- **Address 304: Message routing for telephone #3 and #4.**

Default: no message on telephone number 3 or number 4.
(The same as programming address 284).

- **Address 305: Message routing for telephone #1 and #2.**

Default: Telephone number 1 is primary, telephone number 2 is backup.
(The same as programming address 285).

- **Address 308: Bell/siren #1 activation and pattern for open and close, log entry.**

Default: siren # 1 is inactive, event is entered into the log.

(The same as programming address 288).

ADDRESS 309-313: Message routings for service messages.

Service messages (including test, log 75% full, ac loss and restore, low and good battery) can be routed in several ways. These parameters will be programmed in a similar way as the alarm messages were, according to the following addresses.

- **Address 309: Message routing for telephone #3 and #4.**

Default: no message on telephone number 3 or number 4.

(The same as programming address 284).

- **Address 310: Message routing for telephone #1 and #2.**

Default: Telephone number 1 is primary, telephone number 2 is backup.

(The same as programming address 285).

- **Address 313: Bell/siren #1 activation and pattern for service messages, log entry.**

Default: siren # 1 is inactive, event is entered into the log.

(The same as programming address 288).

ADDRESS 314-377: User access codes.

Default: user #16 is the master code, 123456.

User codes can be programmed on the keypad using the menu functions. Multiple addresses and data are chained together, and this is much easier than attempting to use the individual addresses.

SEE SECTION 3.6 OR 4.5 FOR USER CODES PROGRAMMING.

ADDRESS 382: Exit timer for system #1

Default : 45 seconds

Exit timer is the amount of time that a user has to exit the secured area after he has armed the system. Choose an appropriate time from the list below. The selected number will be the value for the second digit. There is no value for the first digit, so it is necessary to enter a zero.

5 seconds	0
10 seconds	1
15 seconds	2
20 seconds	3
30 seconds	4
45 seconds	5
1 minute	6
1.5 minutes	7
2 minutes	8
2.5 minutes	9
3 minutes	A
4 minutes	B

ADDRESS 383: Same as above for system #2. *Default: 45 seconds*

ADDRESS 384: Same as above for system #3. *Default: 45 seconds*

ADDRESS 385: Same as above for system #4. *Default: 45 seconds*

ADDRESS 386: Pulse counter #1 and Entry timer #1.*Default: 45 seconds entry delay, 2 pulses in 10 seconds.*

Pulse counter is a feature that can help eliminate false alarms. When assigned to a zone that zone must trip the selected number of times in the prescribed time period before the panel treats it as an alarm. It is very similar to pulse count selection in motion detectors. IT SHOULD NOT BE USED ON DOOR CONTACTS. Care also needs to be exercised when using it on motion detectors that have a pulse counter on them. You will be picking 3 choices in the next 3 addresses. These choices are pulled to your selection at address 001, where you select either no pulse count, or 1 of the 3 choices here. The entry delays are handled in a similar manner. You will choose 3 selections in the next 3 addresses which will be pulled to address 000. The selection for entry timer will be the value for the first digit, and the selection for pulse counter will be the value for the second digit at this address.

Entry timer delay	(Left digit)
5 seconds	0
10 seconds	1
15 seconds	2
20 seconds	3
30 seconds	4
45 seconds	5
1 minute	6
1.5 minutes	7
2 minutes	8
2.5 minutes	9
3 minutes	A
4 minutes	B

Pulse counter setup	(Right digit)
2 pulses in 2 seconds	0
2 pulses in 5 seconds	1
2 pulses in 10 seconds	2
2 pulses in 20 seconds	3
3 pulses in 5 seconds	4
3 pulses in 10 seconds	5
3 pulses in 20 seconds	6
3 pulses in 30 seconds	7

ADDRESS 387: Same as above, pulse counter #2, entry timer #2.*Default: 60 second entry delay, 3 pulses in 10 seconds.***ADDRESS 388: Same as above, pulse counter #3, entry timer #3.***Default: 90 second entry delay, 3 pulses in 30 seconds.***ADDRESS 389-409: Opening and Closing windows**

Windows of time in which a customer normally will open and normally will close are programmable. When an opening or closing occurs in this window it will not be sent to the central station or reported to the log. This is primarily for commercial customers. Window size is programmable from 15 minutes before or after a specified time, to 60 minutes before or after a specified time. The size of the window will remain constant on every opening and closing window. You will first program a window size and then program the actual time of day the window will occur. You are allowed 3 separate opening times and 4 separate closing times. These are then entered on each day of the week.

	± 15 min	± 30 min	± 45 min	± 60 min
00:00AM	00	01	02	03
00:30AM	04	05	06	07
01:00AM	08	09	0A	0B
01:30AM	0C	0D	0E	0F
02:00AM	10	11	12	13
02:30AM	14	15	16	17
03:00AM	18	19	1A	1B
03:30AM	1C	1D	1E	1F
04:00AM	20	21	22	23
04:30AM	24	25	26	27
05:00AM	28	29	2A	2B
05:30AM	2C	2D	2E	2F
06:00AM	30	31	32	33
06:30AM	34	35	36	37
07:00AM	38	39	3A	3B
07:30AM	3C	3D	3E	3F
08:00AM	40	41	42	43
08:30AM	44	45	46	47
09:00AM	48	49	4A	4B
09:30AM	4C	4D	4E	4F
10:00AM	50	51	52	53
10:30AM	54	55	56	57
11:00AM	58	59	5A	5B
11:30AM	5C	5D	5E	5F
12:00PM	60	61	62	63
12:30PM	64	65	66	67
13:00PM	68	69	6A	6B
13:30PM	6C	6D	6E	6F
14:00PM	70	71	72	73
14:30PM	74	75	76	77
15:00PM	78	79	7A	7B
15:30PM	7C	7D	7E	7F
16:00PM	80	81	82	83
16:30PM	84	85	86	87
17:00PM	88	89	8A	8B
17:30PM	8C	8D	8E	8F
18:00PM	90	91	92	93
18:30PM	94	95	96	97
19:00PM	98	99	9A	9B
19:30PM	9C	9D	9E	9F
20:00PM	A0	A1	A2	A3
20:30PM	A4	A5	A6	A7
21:00PM	A8	A9	AA	AB
21:30PM	AC	AD	AE	AF
22:00PM	B0	B1	B2	B3
22:30PM	B4	B5	B6	B7
23:00PM	B8	B9	BA	BB
23:30PM	BC	BD	BE	BF

- **Address 389: Window size and set time for opening window #1.**

Default: 7:00 AM, ± 60 minutes (06:00 to 08:00).

Select from the table above the center of the window you want by row, and the size of that window by column. Fill the two digits in address 389. Example: an opening window at 08:00 AM ± 30 minutes (07:30 to 08:30) will be programmed as 41.

- **Address 390: Window size and set time for opening window #2**

Default: 8:00 AM, ± 60 minutes (07:00 to 09:00).

See table at address 389

- **Address 391: Window size and set time for opening window #3**

Default: 9:00 AM, ± 60 minutes (08:00 to 10:00).

See table at address 389

- **Address 392: Window size and set time for closing window #1**

Default: 1:00 PM, ± 60 minutes (12:00 to 14:00).

See table at address 389

- **Address 393: Window size and set time for closing window #2**

Default: 4:00 PM, ± 60 minutes (15:00 to 17:00).

See table at address 389

- **Address 394: Window size and set time for closing window #3**

Default: 5:00 PM, ± 60 minutes (16:00 to 18:00).

See table at address 389

- **Address 395: window size and set time for closing window #4**

Default: 6:00 PM, ± 60 minutes (17:00 to 19:00).

See table at address 389

- **Address 396: Windows setting for system 1 (and 2) , Monday.**

Default: no window setup

Select from the list below a combination of window selections for system #1, for Monday. This will be the value for the first (left) digit. If you are partitioning the panel, make a selection of the value for the right digit, representing the window settings for system #2. The window times and sizes are pulled from the values that were set in addresses 389 - 395. Select from the combinations:

no windows	0
open #1, close #1	4
open #1, close #2	5
open #1, close #3	6
open #1, close #4	7
open #2, close #1	8
open #2, close #2	9
open #2, close #3	A
open #2, close #4	B
open #3, close #1	C
open #3, close #2	D
open #3, close #3	E
open #3, close #4	F

- **Address 397: Window settings for systems 3 and 4, Monday**

Default: no window setup

Use the table above to select appropriate settings. The first digit at this address is for system #3, and the second digit is for system #4. This is for partitioned operation only.

- **Address 398: Windows settings for system 1 (and 2), Tuesday**

Default: no window setup

See address 396.

- **Address 399: Windows settings for system 3 and 4, Tuesday**

Default: no window setup

See address 397.

- **Address 400: Windows settings for system 1 (and 2), Wednesday**

Default: no window setup

See address 396.

- **Address 401: Windows settings for system 3 and 4, Wednesday**

Default: no window setup

See address 397.

- **Address 402: Windows settings for system 1 (and 2), Thursday**

Default: no window setup

See address 396.

- **Address 403: Windows settings for system 3 and 4, Thursday**

Default: no window setup

See address 397.

- **Address 404: Windows settings for system 1 (and 2), Friday**
Default: no window setup
See address 396.
- **Address 405: Windows settings for system 3 and 4, Friday**
Default: no window setup
See address 397.
- **Address 406: Windows settings for system 1 (and 2), Saturday**
Default: no window setup
See address 396.
- **Address 407: Windows settings for system 3 and 4, Saturday**
Default: no window setup
See address 397.
- **Address 408: Windows settings for system 1 (and 2), Sunday**
Default: no window setup
See address 396.
- **Address 409: Windows settings for system 3 and 4, Sunday**
Default: no window setup
See address 397.

ADDRESS 410: Not applicable

ADDRESS 411: Bell/siren #1 activation by system.

Default: bell #1 activated by all systems.

Choose a system or combination of systems if partitioned, that you want to activate the bell/siren. The value you choose will be the value for the left digit of the data. No value needs to be entered in the right digit.

Bell activated by system	value
none	0
1 only	1
2 only	2
1 and 2	3
3 only	4
1 and 3	5
2 and 3	6
1, 2 and 3	7
4 only	8
1 and 4	9
2 and 4	A
1, 2 and 4	B
3 and 4	C
1, 3 and 4	D
2, 3 and 4	E
1,2,3,4 (all)	F

ADDRESS 412: Not applicable

ADDRESS 413: Bell/siren #1 Cutoff time.

Choose an appropriate cutoff time for the bell/siren from the list below, as the right digit.

no siren	0
10 sec	1
20 sec	2
30 sec	3
60 sec	4
90 sec	5
2 min	6
3 min	7
5 min	8
10 min	9
15 min	A
20 min	B

ADDRESSES 414 - 415: Not applicable.

ADDRESS 416-423: LCD custom message #1

To create a custom message, write down the message you want (8 characters). From the table below, select the italicized numbers that represent the characters you want for the message and enter the values at addresses 416-423. You have to fill in all 8 character locations for a message you want to use. Fill in the number 20 for a space.

Example: To select message "ABC" as custom message 1 for a zone descriptor, use the numbers 41, 42, 43, 20, 20, 20, 20, 20 (the characters A, B, C from the table below, followed by 5 spaces in fields) at addresses 416-423, respectively.

<i>30</i>	<i>0</i>	<i>41</i>	<i>A</i>	<i>4E</i>	<i>N</i>	<i>61</i>	<i>a</i>	<i>6E</i>	<i>n</i>
<i>31</i>	<i>1</i>	<i>42</i>	<i>B</i>	<i>4F</i>	<i>O</i>	<i>62</i>	<i>b</i>	<i>6F</i>	<i>o</i>
<i>32</i>	<i>2</i>	<i>43</i>	<i>C</i>	<i>50</i>	<i>P</i>	<i>63</i>	<i>c</i>	<i>70</i>	<i>p</i>
<i>33</i>	<i>3</i>	<i>44</i>	<i>D</i>	<i>51</i>	<i>Q</i>	<i>64</i>	<i>d</i>	<i>71</i>	<i>q</i>
<i>34</i>	<i>4</i>	<i>45</i>	<i>E</i>	<i>52</i>	<i>R</i>	<i>65</i>	<i>e</i>	<i>72</i>	<i>r</i>
<i>35</i>	<i>5</i>	<i>46</i>	<i>F</i>	<i>53</i>	<i>S</i>	<i>66</i>	<i>f</i>	<i>73</i>	<i>s</i>
<i>36</i>	<i>6</i>	<i>47</i>	<i>G</i>	<i>54</i>	<i>T</i>	<i>67</i>	<i>g</i>	<i>74</i>	<i>t</i>
<i>37</i>	<i>7</i>	<i>48</i>	<i>H</i>	<i>55</i>	<i>U</i>	<i>68</i>	<i>h</i>	<i>75</i>	<i>u</i>
<i>38</i>	<i>8</i>	<i>49</i>	<i>I</i>	<i>56</i>	<i>V</i>	<i>69</i>	<i>i</i>	<i>76</i>	<i>v</i>
<i>39</i>	<i>9</i>	<i>4A</i>	<i>J</i>	<i>57</i>	<i>W</i>	<i>6A</i>	<i>j</i>	<i>77</i>	<i>w</i>
<i>20</i>	<i>space</i>	<i>4B</i>	<i>K</i>	<i>58</i>	<i>X</i>	<i>6B</i>	<i>k</i>	<i>78</i>	<i>x</i>
		<i>4C</i>	<i>L</i>	<i>59</i>	<i>Y</i>	<i>6C</i>	<i>l</i>	<i>79</i>	<i>y</i>
		<i>4D</i>	<i>M</i>	<i>5A</i>	<i>Z</i>	<i>6D</i>	<i>m</i>	<i>7A</i>	<i>z</i>

ADDRESS 424-431: LCD Custom message #2. See above

ADDRESS 432-439: LCD Custom message #3. See above

ADDRESS 440-447: LCD Custom message #4. See above

ADDRESS 448-451: Not applicable.

ADDRESS 452-481: Event codes for telephone communicators.

All events are programmable as to the code they will transmit to the central station or can be programmed to transmit no message. These codes are typically assigned to you by your central station - consult your central station operator / owner for codes for the different events. If the telephone protocol selected (see addresses 244 - 251 for details) have only one event code digit - you will have to program only the first (left) digit of the event code (e.g., if event code for fire is 4, program 40 for "zone fire alarm" event code at address 456). If the telephone protocol has two event code digits, the first digit will be the first (left) digit you program, and the second digit will be the second (right) digit you program. Programming 0 instead one of the digits will replace this digit with the zone number or user number. Programming both digits as 00 will not send any message to the central station for this event.

- Example 1: Program 00 for "zone in alarm" event code. No event will be transmitted to the central station upon burglary alarm from any zone.
- Example 2: Program 42 for "zone in alarm" event code. The code 42 will be sent to the central station upon burglary alarm from ANY zone. The zone number is not identifiable at the central station.
- Example 3: Program 60 for "zone in alarm" event code. Upon alarm from zone 1 the code 61 (0 replaced by zone number 1) will be sent to the central station, and alarm from zone 7 will send the code 67 to the central station.
- Example 4: Program 30 for "normal opening" event code. Upon normal opening by user 5, the code 35 (0 replaced by user number 5) will be sent to the central station.

Default event codes:

<i>Zone in Alarm</i>	<i>00</i>	<i>Zone Emergency Alarm</i>	<i>00</i>	<i>Periodic Test</i>	<i>30</i>
<i>Zone Alarm Restore</i>	<i>00</i>	<i>Normal Open</i>	<i>00</i>	<i>Failed to Open</i>	<i>00</i>
<i>Zone Trouble</i>	<i>00</i>	<i>Normal Close</i>	<i>00</i>	<i>Failed to Close</i>	<i>00</i>
<i>Zone Trouble Restore</i>	<i>00</i>	<i>Force Close</i>	<i>00</i>	<i>Log 75% Full</i>	<i>00</i>
<i>Zone Fire Alarm</i>	<i>00</i>	<i>Perimeter Close</i>	<i>00</i>	<i>Clock Change</i>	<i>00</i>
<i>Zone Fire Alarm Restore</i>	<i>00</i>	<i>AC Loss</i>	<i>00</i>	<i>Bell 1 Cutoff</i>	<i>00</i>
<i>Fire Zone Trouble</i>	<i>00</i>	<i>AC Restore</i>	<i>00</i>	<i>Medical Emerg.</i>	<i>00</i>
<i>Fire Zone Trouble Rest.</i>	<i>00</i>	<i>Low Battery</i>	<i>00</i>	<i>Fire Emerg.</i>	<i>00</i>
<i>Zone Tamper Alarm</i>	<i>00</i>	<i>Battery Restore</i>	<i>00</i>	<i>Police Emerg.</i>	<i>00</i>
				<i>Duress/Holdup</i>	<i>00</i>

- **Address 452: Event code for zone in alarm.**
Note: if second digit is 0, it will be replaced by the zone number.
- **Address 453: Event code for zone alarm restore.**
Note: If second digit is 0, it will be replaced by the zone number.
- **Address 454: Event code for zone trouble.**
Note: if second digit is 0, it will be replaced by the zone number.
- **Address 455: Event code for zone trouble restore.**
Note: if second digit is 0, it will be replaced by the zone number.
- **Address 456: Event code for zone fire alarm.**
Note: if the second digit is 0, it will be replaced by the zone number.
- **Address 457: Event code for zone fire alarm restore.**

Note: if the second digit is 0, it will be replaced by the zone number.

- **Address 458: Event code for zone fire trouble.**

Note: if the second digit is 0, it will be replaced by the zone number.

- **Address 459: Event code for zone fire trouble restore.**

Note: if the second digit is 0, it will be replaced by the zone number.

- **Address 460: Event code for zone tamper alarm.**

Note: if the second digit is 0, it will be replaced by the zone number.

- **Address 461: Event code for zone emergency alarm.**

Note: if the second digit is 0, it will be replaced by the zone number.

- **Address 462: Event code for normal opening by user.**

Note: if the second digit is 0, it will be replaced by the user number.

- **Address 463: Event code for normal closing by user.**

Note: if the second digit is 0, it will be replaced by the user number.

- **Address 464: Event code for force closing by user.**

Note: if the second digit is 0, it will be replaced by the user number.

- **Address 465: Event code for perimeter closing by user.**

Note: if the second digit is 0, it will be replaced by the user number.

- **Address 466: Event code for failed to open.**
- **Address 467: Event code for failed to close.**
- **Address 468: Event code for AC loss.**
- **Address 469: Event code for AC restore.**
- **Address 470: Event code for low battery.**
- **Address 471: Event code for low battery restore.**
- **Address 472: Event code for periodic test.**
- **Address 473: Event code for log 75% full.**
- **Address 474: Event code for clock change.**
- **Address 475: Event code for bell cutoff.**
- **Address 476: Event code for Medical Emergency key.**
- **Address 477: Event code for Fire Emergency key.**
- **Address 478: Event code for Police Emergency key.**
- **Address 479: Event code for Duress condition.**

ADDRESSES 482-489: Not Applicable.

ADDRESSES 491-493: Test timer and method of AC synchronization.

Default: no scheduled test, clock synchronized by auto detect 50/60 hz AC.

You can choose to have the panel test communication with the central station on a specified time basis. You select both the day of the month and the time at which this will be done. You can also select the clock to either be synchronized by the AC or not.

- **Address 491: Periodic test timer settings.**

Default: No test message.

The test transmission is used to test the system's communication with a central station periodically. This test is automatically initiated every one hour, two hours, 6 hours, 12 hours, daily, weekly or monthly. Select from the following table the interval for this test (if the period is weekly - select the day in week, and if the period is monthly - select the day in month):

00 -	no test
01 -	1 hour test
02 -	6 hour test
03 -	12 hour test
04 -	daily test
05 -	weekly, monday
0D -	weekly, tuesday
15 -	weekly, wednesday
1D -	weekly, thursday
25 -	weekly, friday
2D -	weekly, saturday
35 -	weekly, sunday
0E -	monthly, 1st day of the month
16 -	monthly, 2nd
1E -	monthly, 3rd
26 -	monthly, 4th
2E -	monthly, 5th
36 -	monthly, 6th
3E -	monthly, 7th
46 -	monthly, 8th
4E -	monthly, 9th
56 -	monthly, 10th
5E -	monthly, 11th
66 -	monthly, 12th
6E -	monthly, 13th
76 -	monthly, 14th
7E -	monthly, 15th
86 -	monthly, 16th
8E -	monthly, 17th
96 -	monthly, 18th
9E -	monthly, 19th
A6 -	monthly, 20th
AE -	monthly, 21st
B6 -	monthly, 22nd
BE -	monthly, 23rd
C6 -	monthly, 24th
CE -	monthly, 25th
D6 -	monthly, 26th
DE -	monthly, 27th
E6 -	monthly, 28th
EE -	monthly, 29th (except Feb)
F6 -	monthly, 30th (except Feb)
FE -	monthly, 31st (except Feb, Apr, June, Sep, Nov)

- **Address 492: Setting for hour when test occurs.**

Select the hour that you wish the test to take place at (minutes will be programmed at the next address, 493). If you have programmed more than one test per day (see address 491 above) this will be the time of the first test, and the others in that day will follow according to your selections at address 491. If you have programmed a test period of one hour - it doesn't matter what you program for this parameter. Enter the value from the table below at this address, 492.

00	0 am
01	1 am
02	2 am
03	3 am
04	4 am
05	5 am
06	6 am
07	7 am
08	8 am
09	9 am
0A	10 am
0B	11 am
0C	12 am
0D	1 pm
0E	2 pm
0F	3 pm
10	4 pm
11	5 pm
12	6 pm
13	7 pm
14	8pm
15	9 pm
16	10 pm
17	11 pm

- **Address 493: Clock synchronization and minutes setting for periodic test.**

Determine if you want the clock to be synchronized by the AC, or not, and what the minutes for the periodic test timer need to be. Enter this value at this address, 493.

minutes	without AC sync.	with AC sync.
XX:00	00	C0
XX:05	05	C5
XX:10	0A	CA
XX:15	0F	CF
XX:20	14	D4
XX:25	19	D9
XX:30	1E	DE
XX:35	23	E3
XX:40	28	E8
XX:45	2D	ED
XX:50	32	F2
XX:55	37	F7

Any other minute setting can be chosen by entering the Hexadecimal value for that Minute, and add C0 if AC synchronization is to be used.

- **Example 1:** To have no test, and the system clock is not synchronized by the AC line, enter 00 00 00.
- **Example 2:** To have no test, and the system clock is synchronized by the AC line, enter 00 00 C0.
- **Example 3:** To have a test every one hour, 20 minutes after a whole hour, enter 01 00 D4.
- **Example 4:** To have a daily test at 8:45 PM, enter 04 14 ED.
- **Example 5:** To have a weekly test every Sunday at 2:35 AM, enter 35 02 E3.

Address 494: Arming options.

Default: no arming tone, force arming allowed, no auto arm at end of window, no auto unbypass upon disarming, report when each system is armed.

You can choose what type of arming tones, if any, that you create when the system is armed, what audible devices transmit these tones, if any, and whether to allow functions such as force arming, auto arming at end of a window, and auto unbypass upon disarming. Select a value for the first (left) digit of address 494 from the table below:

first (left) digit value	auto unbypass upon disarm	send arm only if all systems armed	auto arming at the end of closing window	force arming
0	-	-	-	-
1	-	-	-	YES
2	-	-	YES	-
3	-	-	YES	YES
4	-	YES	-	-
5	-	YES	-	YES
6	-	YES	YES	-
7	-	YES	YES	YES
8	YES	-	-	-
9	YES	-	-	YES
A	YES	-	YES	-
B	YES	-	YES	YES
C	YES	YES	-	-
D	YES	YES	-	YES
E	YES	YES	YES	-
F	YES	YES	YES	YES

Select a value for the second (right) digit of address 494 from the table below:

- 0 no arming tone at the bell / siren.
- 1 bell / siren ring after arming of every system.
- 5 bell / siren ring only after all systems are armed.
- 9 bell / siren ringback from central station (short ring after central station acknowledges the arming message).

ADDRESS 496: Remote programming options.

Default: answering machine override, 7 rings, direct call session, access at all times.

When using the up/download software, you need to select the proper parameters so communication can be established. The panel can be programmed to allow remote programmer access 24 hours a day, or only when all systems are disarmed. The panel can allow a direct call access (the remote programmer initiates the call and program at the same call) or a callback access (the remote programmer calls the panel, the panel recognizes the passcode sent by the remote programmer, hangs up, and dials back to the remote programmer via the callback telephone number programmer at addresses 184 - 191 within 60 seconds). The amount of rings after which the panel picks up the line is also programmable. The panel is equipped with the "answering machine override" feature that allows the panel to recognize that a call was placed by a remote programmer, even if the phone line was picked up by an answering machine or other telephone equipment, and then disconnect the other equipment from the line and seize the line for a remote programming session. Select a value for address 496 (right digit) from the table below (Left digit will always be 0):

Value	remote prog. access	remote prog. communication	Number of rings
0	24 hours	direct call	1
1	24 hours	direct call	3
2	24 hours	direct call	7
3	24 hours	direct call	17
4	24 hours	callback	1
5	24 hours	callback	3
6	24 hours	callback	7
7	24 hours	callback	17
8	disarmed	direct call	1
9	disarmed	direct call	3
A	disarmed	direct call	7
B	disarmed	direct call	17
C	disarmed	callback	1
D	disarmed	callback	3
E	disarmed	callback	7
F	disarmed	callback	17

ADDRESS 497: AC Loss report delay.

Default: 60 minute delay before report.

To prevent short AC power losses from creating AC loss messages to the central station, choose an appropriate delay for the length of time AC needs to be lost until a signal is sent to the central station. Choices range from 0-255 minutes after AC loss. Enter the number of minutes in hex format at this address. Some typical values:

05	- 5 minutes
0A	- 10 minutes
0F	- 15 minutes
14	- 20 minutes
1E	- 30 minutes
2D	- 45 minutes
3C	- 1 hour
5A	- 1.5 hours
78	- 2 hours
B4	- 3 hours
F0	- 4 hours

ADDRESS 498: Fire sensor trip and restore methods, Swinger setting.

Default: user trip, power restored after 10 seconds, 1 alarm in 1 arming period.

Depending on your type of installation and local jurisdiction, choose appropriate values from the list below. The fire sensor reset can occur automatically upon fire alarm, or manually by user operation ("SELECT" '4', '3'). The cutoff is the amount in which the smoke detector will be without power for it to reset. This value is the second (right) digit at this address:

- | | |
|---|--|
| 0 | auto reset, 10 second power-up delay |
| 1 | auto reset, 30 second power-up delay |
| 2 | auto reset, 60 second power-up delay |
| 3 | auto reset, 120 second power-up delay |
| 4 | auto reset, user activate power-up (by command "43") |
| 8 | user reset (by command "43"), 10 second power-up delay |
| 9 | user reset (by command "43"), 30 second power-up delay |
| A | user reset (by command "43"), 60 second power-up delay |
| B | user reset (by command "43"), 120 second power-up delay |
| C | user reset (by command "43"), user activate power-up (by command "43") |

Swinger settings . These are pulled to zone programming addresses. If swinger is activated on an individual zone, the frequency of alarms set here at this address is the maximum allowed for that zone (E.g.: if zone 1 was set as a swinger in address 001, and swinger mode was set to "1 alarm in 1 arming period" in address 498, only one alarm will be accepted from this zone within every one arming period. The second alarm from this zone within this period will not trigger the bell / communicator). Enter the value from the table below in the first (left) digit position of address 498:

- | | |
|---|----------------------------|
| 0 | 1 alarm in 1 arming period |
| 4 | 1 alarm every 1 hour |
| 5 | 1 alarm every 30 minutes |
| 6 | 1 alarm every 15 minutes |

END OF PARAMETERS

5.4 Remote Programming

Programming of the control panel can be performed using remote programming modem and software over a standard telephone line and an IBM compatible computer. Remote programming via computer requires the following:

- IBM PC (or compatible) 286AT or higher with a free serial port
- DOS 3.1 operation system or higher
- Remote programming package (ELPN 5200071, available from Electronics Line).
- Any CRT display (color VGA display is recommended).

All functions of the panel can be programmed while on line. Uploading and downloading using the remote programming software is very simple and requires only a few minutes to complete.

Remote programming can take place using one of the following procedures.

Direct Access

The upload/download software will dial the telephone number of the control panel, validate the remote programming passcode, and access the control panel for programming.

Callback

The remote programming software will dial the number of the control panel and validate the remote programming passcode. If validated, the control panel will hang up and dial callback telephone number.

To initiate remote programming using callback, you must program the control panel to function in the callback mode. This can be done either from the keypad or from the remote programming software using direct access remote programming.

Load a customer file. At edit Menu, communication choice must be; Direct Access. Move to Miscellaneous menu and select Remote Programming. Access type choice must be: Passcode Access. Move to Communication Menu, and select Connect. When direct access communication has been established, move to Edit menu, select customer. As communications field select Callback. Move to Miscellaneous menu and select Remote Programming. Enter the callback telephone number. At the Access Type field, select Callback Access. Move to Files menu and save changes. Move to Communications menu, select Download, Update. Disconnect. Callback feature is now active.

Answering Machine Override

If the control panel is attached to a line which has an answering machine connected, and the remote programmer calls the control panel, the control panel will wait the amount of rings programmed into it (1, 3, 7 or 17). If another telephone equipment picked up the phone line before that (such as an answering machine), the control panel will listen to the line silently without interference to the normal operation of the answering machine. When the control panel recognizes the signal and passcode from the remote programming, it will seize the line, disconnecting the answering machine and programming can start.

On Site Installation Initiated

The on-site installer can initiate remote programming (after coordinating with remote programming personnel) by keying in Select, '7', '4', '2', followed by the authorized user code. If the control panel is programmed in the callback mode, the panel will initiate the Callback operation as describe above. Another method is to initiate a call from the remote programming software and key in Select, '7', '4', '1', and the authorized user code. The panel will seize the line and remote programming.

5.5 Default Programs

The control panel holds 2 default programs to support easy installation that does not require any special knowledge of all parameters. All control panels are factory-programmed to default program 1 (non-partitioned operation). They can be reprogrammed to default program 2 (for partitioned operation) or reprogrammed to default program 1. The following pages will describe the parameters for each default program. After programming a default program, only a few parameters will have to be changed, such as telephone numbers, user codes, etc.. Make a record of all parameters as you change them from the default program.

Default Program 1 Non-Partitioned Operation

Zones:

1. "FRONT DOOR", Chime, Bypassable, 45 second Delay, Normally Closed, Activates Bell, Perimeter
2. "BACK DOOR", Chime, Bypassable, 45 second Delay, Normally Closed, Activates Bell, Perimeter
3. "NONE", Bypassable, No Delay, Normally Closed, Activates Bell, Interior Follower
4. "NONE", Bypassable, No Delay, Normally Closed, Activates Bell, Perimeter
5. "NONE", Bypassable, No Delay, Normally Closed, Activates Bell, Perimeter
6. "NONE", Bypassable, No Delay, Normally Closed, Activates Bell, Perimeter
7. "NONE", Bypassable, No Delay, Normally Closed, Activates Bell, Perimeter
8. "FIRE", Non-Bypassable, No Delay, Supervised Alarm Only, Activates Bell

Account Numbers: 9999

User Codes 1 - 16:

- 1 - 15. Not Programmed
16. "123456", authorization level 10 (All operations, including programming)

Telephone Line Parameters:	Line 1
Dial tone timeout:	Dial after 5 seconds
Start Dialing:	On dial tone
Anti Jamming:	2 seconds
Dialing	DTMF dialing
Time out for ACK1	15 seconds
Time out for ACK2	3 seconds
Dialing attempts	5 attempts
Message attempts	5 messages
Phone Supervision	None

Telephone Protocols:

#1 - Standard Protocol 4 x 2 Fast	<u>4 x 2 Fast</u>
#2 - Standard Protocol 4 x 2 Fast	Data Rounds: 2 rounds Account Length: 4 Digits
#3 - Standard Protocol 4 x 2 Fast	Extended: NO Data Freq.: 1800HZ
#4 - Standard Protocol Follow Me	Data Speed: 20PPS ACK Freq.: 2300HZ
	Event Length: 2 Digits

Event Routing:		<u>Bell</u>	<u>Log</u>
Burglary Alarms:	Tel. 1: Primary	Tel. 2: Backup Tel. 3: None	Tel. 4: None Steady Yes
Burglary Troubles:	Tel. 1: Primary	Tel. 2: Backup Tel. 3: None	Tel. 4: None No Bell Yes
Fire Alarms:	Tel. 1: Primary	Tel. 2: Backup Tel. 3: None	Tel. 4: None Pat.#2 Yes
Fire Troubles:	Tel. 1: Primary	Tel. 2: Backup Tel. 3: None	Tel. 4: None No Bell Yes
Open/Close	Tel. 1: Primary	Tel. 2: Backup Tel. 3: None	Tel. 4: None No Bell Yes
Service:	Tel. 1: Primary	Tel. 2: Backup Tel. 3: None	Tel. 4: None No Bell Yes

Event Codes:					
Zone in Alarm	00	Normal Open	00	Failed to Open	00
Zone Alarm Restore	00	Normal Close	00	Failed to Close	00
Zone Trouble	00	Force Close	00	Log 75% Full	00
Zone Trouble Restore	00	Perimeter Close	00	Clock Change	00
Zone Fire Alarm	00	AC Loss	00	Bell 1 Cutoff	00
Zone Fire Alarm Restore	00	AC Restore	00	Duress	00
Fire Zone Trouble	00	Low Battery	00	Emg. Key Fire	00
Fire Zone Trouble Rest.	00	Battery Restore	00	Emg. Key Police	00
Zone Tamper Alarm	00	Periodic Test	30	Emg. Key Medical	00

Remote Programming:		Bells:
Programming Code:	174259	Cutoff Time - 5 Minutes
Ring count:	7 rings	Fire Sensor Power -
Access Type:	Direct remote Access	* Disconnect - by user.
Access Timing:	All Times	* Restore after 10 seconds.

Keypads 1 - 8

<u>Beeps:</u>		<u>Display:</u>
Beep if low Battery:	No	Default System: System 1
Beep if AC lost	No	Default Data: Detailed
Disarming Beep	3 Beeps at Disarming	
Arming Beep:	1 Beep at Arming	<u>Backlight:</u>

<u>Operation:</u>	
Allow 1 Key "STAY" & "AWAY" Arming and Bypassing	On During Opening Windows: Yes
	On During Opening Windows: Yes
	Always On: No
	On During Operation: Yes

Test & AC

Periodic Test: No Test

AC Loss Report Delay: 60 Minutes after AC Lost

Clock Synchronization by AC: Auto Detect 50/60 HZ

Arming:

Arming Tone:	None
Tone When:	Central Station Ringback
Allow Force Arming:	Yes
Auto Arming at End of Closing Window:	No
Report Arming Only When all Systems Armed:	No
Auto Unbypass Upon Disarming:	No

Note: All the above parameters are defaulted program 1 (command 72). Every parameter can be changed, refer to the programming manual and up/down loading software for description.

Default Program 2 Partitioned Operation

Zones:

1. "ROOM 1", Chime, Bypassable, 45 second delay, Normally Closed, Activates Bell, Perimeter
2. "ROOM 1", No Chime, Bypassable, No Delay, Normally Closed, Activates Bell, Interior Follower
3. "ROOM 2", Chime, Bypassable, 45 second delay, Normally Closed, Activates Bell, Perimeter
4. "ROOM 2", No Chime, Bypassable, No Delay, Normally Closed, Activates Bell, Interior Follower
5. "ROOM 3", Chime, Bypassable, 45 second delay, Normally Closed, Activates Bell, Perimeter
6. "ROOM 3", No Chime, Bypassable, No Delay, Normally Closed, Activates Bell, Interior Follower
7. "ROOM 4", Chime, Bypassable, 45 second delay, Normally Closed, Activates Bell, Perimeter
8. "ROOM 4", No Chime, Bypassable, No Delay, Normally Closed, Activates Bell, Interior Follower

Account Numbers: All Systems Account # 9999

User Codes: 1 - 16:

1. "3201", authorization level 4 (Arming, disarming, bell canceling, auxiliary relay, and fire sensor interrupt & reset).
2. "3202", authorization level 4
3. "3203", authorization level 4
4. "3204", authorization level 4
- 5 - 15. Not Programmed
16. "123456", authorization level 10, (All operations, including programming)

Telephone Line Parameters: Same as Default 1

Telephone Protocols: Same as Default 1

Event Routing: Same as Default 1

Event Codes: Same as Default 1

Remote Programming: Same as Default 1

Keypads 1 - 8:

Same as Default 1, except Display's of "Default System".

1. All Systems
2. System 1
3. System 2
4. System 3
5. System 4
6. All Systems
7. All Systems
8. All Systems

Test & AC: Same as Default 1

Arming: Same as Default 1

Relay: Same as Default 1

Note: All the above parameters are defaulted by program 2 (command 73). Every parameter can be changed, refer to the programming manual and up/down loading software for description.

6. SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Power Input

Primary 16.5Vac, 35Ah transformer

Secondary 12Vdc battery

Output

Auxiliary power - regulated 13.8Vdc at 1.5 Amp max. including battery charging.

Unregulated power - Approx. 20Vdc at 2.5 Amp max. (including AUX power).

Bell output - 13.8Vdc from auxiliary power, 1.5Amp total auxiliary power available, up to
4Amps switched regulated power available if battery is in place.

Fire sensor switched power - up to 100ma

Current consumption - 38 ma standby without keypads, 65ma when communicating.

Zones

Number of zones - 8 onboard

Emergency Keys - 3 user initiated

Keypads

Types - 3108 LCD keypad, 3106 LED keypad

Number of keypads - 8 supervised

Current draw - 40 ma without backlight, 60 ma with backlight

User Codes

Number of users - 16

Number of digits per user code - 3 thru 6

Authorization levels - 16 (maid, user, installer, etc..)

Open/Close Time Windows

Number of windows - 56 (4 systems x 7 weekdays, open & close)

Window alignment - 30 minutes (8:00, 8:30 etc..)

Window sizes - $\pm 15\text{min}$, $\pm 30\text{min}$, $\pm 45\text{min}$, $\pm 60\text{min}$

Remote Programming

Equipment - 3911 remote programming modem and software package, PC based

Access - Direct (Password), Callback, User initiated, Answering machine override

Operating Temperature

0° to 60 ° C (32° to 140 ° F)

ELECTRONICS LINE U.S.A., INC. LIMITED WARRANTY

ELECTRONICS LINE U.S.A., INC. (ELUSA) warrants its products to be free from manufacturing defects in materials and workmanship for two years following the date of sale. ELUSA will, within said period, at its option, repair or replace any product failing to operate correctly without charge to the original purchaser or user.

This warranty shall not apply to any equipment, or any part thereof, which has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to acts of God, or on which any serial numbers have been altered, defaced or removed. Seller will not be responsible for any dismantling or reinstallation changes.

In case of defect, contact the security professional who installed and maintains your security system. ELUSA shall have no obligations under this warranty, or otherwise, if the product has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to accident, nuisance, flood, fire or acts of God, or on which any serial numbers have been altered, defaced or removed, ELUSA will not be responsible for any dismantling, reassembly or reinstallation changes.

In order to exercise the warranty, the product must be returned by the user or purchaser, shipping costs prepaid and insured to ELUSA. After repair or replacement, ELUSA assumes the cost of returning products under warranty.

There are no warranties, express or implied, which extend beyond the description on the face hereof. There is no express or implied warranty of merchantability or warranty of fitness for a particular purpose. Additionally, this warranty is in lieu of all other obligations or liabilities on the part of ELUSA.

Any action for breach of warranty, including but not limited to any implied warranty of merchantability, must be brought within the six months following the end of the warranty period. In no case shall ELUSA be liable to anyone for any consequential or incidental damages for breach of this or any other warranty, express or implied, even if the loss or damage is caused by the seller's own negligence or fault.

This warranty contains the entire warranty. It is the sole warranty and any prior agreements or representations, whether oral or written, are either merged herein or are expressly canceled. ELUSA neither assumes, nor authorizes any other person purporting to act on its behalf to modify, to change, or to assume for it, any other warranty or liability concerning its products.

In no event shall ELUSA be liable for an amount in excess of ELUSA's original selling price of the product, for any loss or damage, whether direct, indirect, incidental, consequential, or otherwise arising out of any failure of the product. Seller's warranty, as hereinabove set forth, shall not be enlarged, diminished or affected by and no obligation or liability shall arise or grow out of Seller's rendering of technical advice or service in connection with Buyers order of the goods furnished hereunder.

ELUSA RECOMMENDS THAT THE ENTIRE SYSTEM BE COMPLETELY TESTED WEEKLY.

Warning: Despite frequent testing, and due to, but not limited to, any or all of the following; criminal tampering, electrical or communications disruption, it is possible for the system to fail to perform as expected. ELUSA does not represent that the product/system may not be compromised or circumvented; or that the product or system will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; nor that the product or system will in all cases provide adequate warning or protection. A properly installed and maintained alarm may only reduce risk of burglary, robbery, fire or otherwise but it is not insurance or a guarantee that these events will not occur.

CONSEQUENTLY, SELLER SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE, OR OTHER LOSS BASED ON A CLAIM THE PRODUCT FAILED TO GIVE WARNING. Therefore, the installer should in turn advise the consumer to take any and all precautions for his or her safety including, but not limited to, fleeing the premises and calling police or fire department, in order to mitigate the possibilities of harm and/or damage.

ELUSA is not an insurer of either the property or safety of the user's family or employees, and limits its liability for any loss or damage including incidental or consequential damages to ELUSA's original selling price of the product regardless of the cause of such loss or damage. If the user wishes to protect itself to a greater extent, ELUSA will, at user's sole cost and expense, obtain an insurance policy to protect the user, supplemental to user's own policy, at a premium to be determined by ELUSA's insurer upon written notice from user by Certified Mail, Return Receipt Requested, to ELUSA's home office address, and upon payment of the annual premium cost by user.

Some states do not allow limitations on how long an implied warranty lasts or do not allow the exclusion or limitation of incidental or consequential damages, or differentiate in their treatment of limitations of liability for ordinary or gross negligence, so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.
