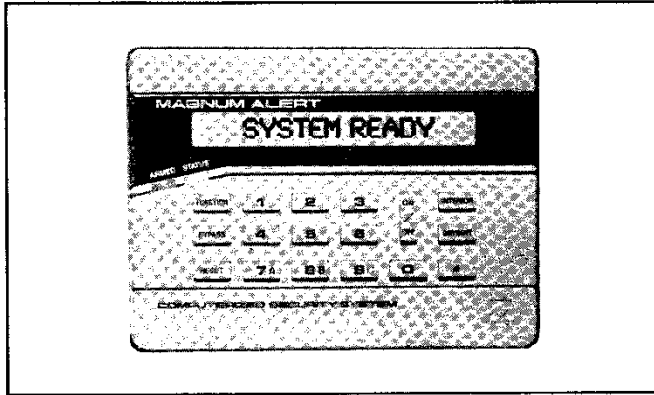# OPERATING GUIDE

RP2000LCD KEYPAD

The RP2000LCD is a user-friendly keypad with large alpha-numeric LCD display designed for use with Napco's MA2600-Series control panels. Featuring soft-touch keys and built-in backlighting, the keypad functions as a programmer as well in its secondary mode of operation. And its modern, attractive styling will complement any decor.

TABLE OF CONTENTS

TO SHUT OFF AN ALARM WHILE ARMED:

ENTER YOUR CODE, THEN PRESS THE [ON/OFF] BUTTON.

FOR SERVICE, CALL: _____

CENTRAL STATION: _____

EXIT DELAY: _____

ENTRY DELAY: _____

FIRE ALARM SOUND: _____

BURGLAR ALARM SOUND: _____

KEYPAD FIRE DISABLED	☐ YES	☐ NO
KEYPAD PANIC DISABLED	☐ YES	☐ NO

DESIGN PATS. PENDING

CENTRAL-STATION MONITORING

Your alarm specialist may have programmed your system to be monitored by a central station. The built-in digital communicator can transmit emergency signals and status reports to the central station 24 hours a day.

COMMUNICATOR FEATURES

Abort Delay. Ask your installer which of your zones have abort delay, a delay that enables you to reset the system before it communicates to the central station.

- Regular Burglary (Non-24-Hour) Zone reports are aborted by disarming within the delay period.
- 24-Hour Zones and zones programmed to report restores must be restored first, then the panel armed and disarmed, all within the delay period.

Opening and/or Closing Reporting. Your system can notify the central station every time it is disarmed or armed. Any or all of up to 15 different users can each be identified. If your system reports on arming (Closing Report), the central station will acknowledge arming by means of a "ringback" tone, a short verification beep that will sound at the keypad.

Telephone-Line Test. Activating Function 9 (see **KEYPAD FUNCTIONS**) will test the telephone line for 12 seconds after the [ON/OFF] Button is released. Failure is indicated by [FAIL, HIT RESET] on the display. (To arm with a system trouble see **SETTING THE ALARM WHEN LEAVING.**)

GLOSSARY

Following are brief descriptions of terms and features used herein that may be unfamiliar to you. Many of the features are programmable options that may or may not apply to your system.

Abort Delay - A delay period that allows the control panel to be reset, thus aborting a report to a central station.

Access Code - A code (up to 6 digits) used to remotely unlock a door.

Ambush Code - A 2-digit code entered just prior to the Arm/Disarm Code when forced to disarm. Sends a silent alarm to the central station.

Arming/Disarming - Turning the system on/off by entering your code at the keypad, then pressing the [ON/OFF] Button.

Arm/Disarm Code - Your personalized code for arming and disarming the system. It may contain up to six digits.

Battery - Backup power source in the control-panel enclosure to provide protection in the event of a power failure.

Bypass Button (Labelled [BYPASS] on keypad) - Enables you to manually remove one or more protective zones from the system.

Central Station - Monitors incoming reports and emergency messages from a digital communicator and notifies the proper authorities.

Chime - A keypad beep while disarmed alerting that the programmed zone has been opened.

Communicator - Reports intrusions, emergencies, openings, closings, etc. directly to the central station over telephone lines.

Control Panel - The brain of the system, it controls all system functions.

Directory - A listing of the programmed zone descriptions stored in memory.

Exit/Entry Delays - Separate delays that let you exit and enter your premises without setting off an alarm when the system is armed.

Instant Protection - Arming without entry delay while on the premises using the [INSTANT] Button.

Keypad - Puts control-panel functions at your fingertips. It can be mounted anywhere in your premises.

Panic Buttons - Blue buttons on the keypad ([*] and [A], [B] or [C]). Pressing

[*] together with [A], [B] or [C] will alert the central station of a fire, police or other emergency.

Program Code - A code (up to 6 digits) required to enter the Program Mode.

Report - A transmission to a central station notifying of a change in the status of the system (alarm, trouble, low battery, etc.).

Ringback - A beep after arming verifying central-station receipt of report.

Service Code - An Arm/Disarm Code intended for temporary use.

Sounder - A local warning device at each keypad to alert that (a) entry delay has started; (b) an attempt was made to arm with a zone in trouble; or (c) central station acknowledged arming (see **Ringback**).

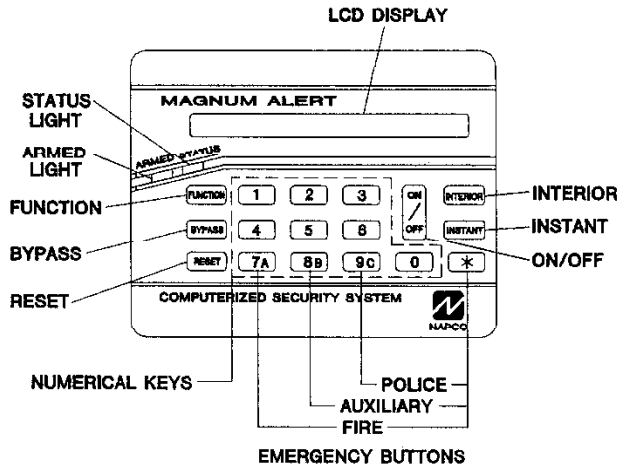**Trouble** - An open door, window, or other problem that may prevent arming.

Watch Mode - Turns all Day Zones on or off simultaneously.

Zones - Independent circuits that protect specific areas of the premises:

- Auto-Bypass Zone: A zone that will be automatically bypassed from the protection system if it is in trouble (faulty) when the system is armed.

- Burglary Zone: Detects intrusion.

- Day Zone: A zone programmed to cause visual and audible (indication at the keypad when it is in trouble while disarmed.

- Exit/Entry Follower Zone: Provides exit and entry delay for interior devices. Entry delay only occurs if re-entry takes place through the normal exit/entry door.

- Interior Zones: Circuits within the premises, usually including space-protection devices, interior doors, etc.; not exterior doors or windows. These can all be bypassed simultaneously using the [INTERIOR] Button.

- Priority Zone: A zone that prevents arming if in trouble.

- Priority Zone with Bypass: A priority zone that can be bypassed using the [Reset] Key.

- Selective-Bypassed Zone: A zone that can be individually bypassed using the [BYPASS] Button.

- 24-Hour Zone: A zone that is armed and ready at all times to respond to an emergency situation.

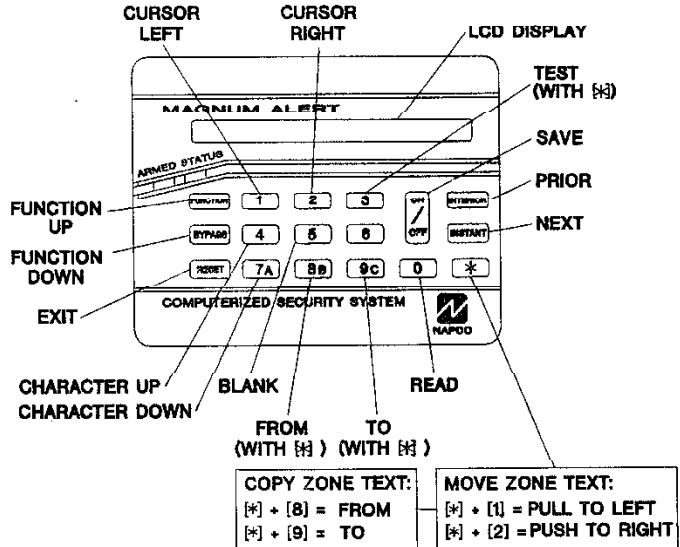# KEYPAD CONTROLS & INDICATORS

- Normal Mode -

LCD DISPLAY

STATUS LIGHT

ARMED LIGHT

FUNCTION

BYPASS

RESET

MAGNUM ALERT

ARMED STATUS

INTERIOR

INSTANT

ON/OFF

COMPUTERIZED SECURITY SYSTEM

NUMERICAL KEYS

POLICE

AUXILIARY

FIRE

EMERGENCY BUTTONS

KEYPAD CONTROLS & INDICATORS

- Program Mode -

CURSOR LEFT · CURSOR RIGHT · LCD DISPLAY

TEST (WITH ⌘)

SAVE

PRIOR

FUNCTION UP

NEXT

FUNCTION DOWN

EXIT

MAGNUM ALERT

ARMED STATUS

COMPUTERIZED SECURITY SYSTEM

NAPCO

CHARACTER UP / BLANK · READ
CHARACTER DOWN /
FROM (WITH ⌘) · TO (WITH ⌘)

COPY ZONE TEXT:	MOVE ZONE TEXT:
[*] + [8] = FROM	[*] + [1] = PULL TO LEFT
[*] + [9] = TO	[*] + [2] = PUSH TO RIGHT

SETTING THE ALARM (ARMING) WHEN LEAVING

Check the keypad; only the green light should be on and the display should read •SYSTEM READY•. If the display indicates ••ZONE FAULT•• , press the [FUNCTION] Button once (Display Status), then the [ON/OFF] Button to display ZONES FAULTED. Note the problem zone and secure it (by closing a window, door, etc.). If you cannot locate or repair the problem yourself, call for assistance. If you cannot get immediate help, it may be possible to bypass that zone from the system (see **Arming with Zones Bypassed**, which follows) and arm temporarily with partial protection. However, be sure to have the system checked as soon as possible.

NOTE: If "SYS TBL" and CHECK TROUBLE are displayed, check the system trouble as follows and correct it before attempting to arm. Press the [FUNCTION] Button 5 times (Display System Troubles), then the [ON/OFF] Button to display the SYSTEM TROUBLE(s) After the trouble is checked, be it LOW BATTERY, AC POWER LOSS, etc., it will be possible to arm within 5 minutes if repairs cannot be made immediately. (If arming with a low battery indication, backup power may not be present in the event of a power failure.)

Enter your Arm/Disarm Code, then press the [ON/OFF] Button to arm the system: the green STATUS light will go off, the red ARMED light will go on and the display will count down the exit delay time (in seconds). Leave immediately through the regular exit/entry door. At "000" seconds, the display will read ••••ARMED••••• indicating that the panel is armed.

NOTE: If your system reports to a central station, your panel may have been programmed to start exit delay after the central-station ringback (verification) signal. Then, after arming, the display will read PLEASE WAIT while your system communicates to the central station. After the central station acknowledges receipt (ringback), exit delay will start. If ringback is not heard within about 30 seconds, a communication problem may exist; call for service. Function 15 (see **KEYPAD FUNCTIONS**) may then be used to manually start the exit delay, however reporting capability may be sacrificed. (If your system does not report or ringback feature was not programmed, exit delay will start as soon as your Arm Code is entered.)

Arming With Zones Bypassed

Check that the keypad display reads *SYSTEM READY*. To deactivate a zone (programmable option), press the [BYPASS] Button, then the numerical key representing the zone number. (The zone number is properly entered as a two-digit number, thus Zone 4 is entered as "04".) "BYPASS" will be displayed to indicate that at least one zone has been bypassed from the system. Each zone must be bypassed separately. To display the bypassed zones, press the [FUNCTION] Button 3 times (Display Bypassed), then the [ON/OFF] Button to scroll through all ZONES BYPASSED. (Also refer to **PROTECTING YOURSELF WHILE ON THE PREMISES: Bypassing Interior Zones.**) When armed, the green STATUS light will flash to indicate that the system is armed with one or more zones bypassed. When the system is subsequently disarmed, bypassed zones will revert to regular disarmed zones.
NOTE: Temporary users should never be shown how to bypass a zone.

Priority Arming.

A steady tone at the keypad and PRIORITY TROUBLE displayed when attempting to arm indicates a priority condition; that is, a problem exists on at least one zone that has been designated a Priority Zone. Enter your Arm/Disarm Code, or simply press the [ON/OFF] Button to silence the sounder. The trouble(s) must be corrected before the panel can be armed. To check which zone is in trouble, press the [FUNCTION] Button once (Display Status), then the [ON/OFF] Button. The display will read ZONES FAULTED, then scroll through all the problem zones. Similarly, if "SYS TBL" is displayed with PRIORITY TROUBLE, a priority system trouble exists which must be corrected before the panel can be armed. To identify the system trouble, press the [FUNCTION] Button 5 times (Display System Trouble), then the [ON/OFF] Button to display the system trouble(s). A zone programmed as a Priority Zone with Bypass (ask your installer) may be bypassed when in trouble. Display status as above; if the problem cannot be corrected immediately, press the [RESET] Button, then arm the panel. A 2-second beep will sound at the panel to indicate arming with a Priority Zone in trouble. Be sure to have the trouble repaired as soon as possible.

TURNING OFF THE ALARM (DISARMING) WHEN RETURNING

Burglary Zone

Upon entry through a designated exit/entry door, the red ALARM light should be on. The keypad sounder will come on as a reminder to disarm the panel. Immediately enter your Arm/Disarm Code, then press the [ON/OFF] Button to disarm.

Alarm Indication

NOTE: If the red ARMED light is flashing, an alarm occurred — **PROCEED WITH CAUTION!** (If you suspect that an intruder is on the premises, call the police from a neighbor's phone.)

The display will read ALARM then scroll through all the violated zones. Disarm the panel; the display will read ALARM MEMORY and will continue to indicate the violated zones until the [RESET] Button is pressed or until the panel is armed once again. Correct the zone condition that initiated the alarm to restore "System Ready" status. To recall the zones that were in alarm, check Alarm History: Press the [FUNCTION] Button 6 times (Display Alarm History), then press the [ON/OFF] Button to recall the last alarm condition.

Day Zone

A Day Zone may be used to monitor a secured exit door, foil on doors or windows, etc. A problem on this type of burglary zone will cause a DAY ZONE TROUBLE display and a pulsing audible alert at the keypad while disarmed. Press the [RESET] Button to silence the sounder. Correct the problem to reset the Day Zone.

24-Hour Zone

This zone is always armed, even if the system is disarmed. There is no keypad indication showing the status of a 24-Hour Zone, but an alarm on this zone will be recorded in alarm history. If the detection device must be manually reset, it must be reset to clear the zone. If the system is subsequently armed with a 24-Hour Zone in trouble, the keypad sounder will come on momentarily to indicate that there is a problem on the zone.

Ambush Zone

If an intruder forces you to disarm your system, enter your two-digit Ambush Code (programmed option) just prior to your Arm/Disarm Code, then press the [ON/OFF] Button. This will send a silent alarm to a central station.

PROTECTING YOURSELF WHILE ON THE PREMISES

Bypassing Interior Zones

Check that the keypad display reads *SYSTEM READY*. To turn off all interior zones simultaneously (programmable option), press the [INTERIOR] Button. ("BYPASS" will be displayed to indicate that at least one zone is being bypassed from the system.) Be sure to secure all exterior doors and windows.

Arming the System While on the Premises

After interior zones have been bypassed (see **Bypassing Interior Zones**, above) you may set the alarm with perimeter protection only: enter your Arm/Disarm Code, then press the [ON/OFF] Button. The ARMED light will go on and, after the exit time has elapsed, the display will read ****ARMED***** . Entry through any exterior door or window will cause an immediate alarm, except through the regular entry door, which is still subject to the usual entry delay.

NOTE: When the system is subsequently disarmed, bypassed interior zones will revert to regular disarmed zones.

Arming With Instant Protection

To cancel the entry delay while on the premises, merely press the [INSTANT] Button. (Note that exit delay will still remain in effect.) The display will now read ****ARMED*****I, and opening the entry door (after exit delay has expired) will cause an instant alarm.

NOTE: When the system is subsequently disarmed, entry delay will be restored.

Emergency Buttons

The blue [*] Button must be pressed together with the blue [A], [B] or [C] Button to activate the optional emergency features, each of which may have been programmed by your alarm specialist to signal a central station, sound an audible alarm, or both:

[*] + [A] = Fire Emergency
[*] + [B] = Auxiliary Emergency
[*] + [C] = Police Emergency

NOTE: The emergency signal will only be activated when both of the respective pair of buttons are pressed at the same time. Check with your installer to see if any of the Emergency Buttons have been disabled.

FIRE PROTECTION

This information is applicable only where local ordinance permits use of this alarm control panel for fire protection.

Fire-Zone Alarm.

If a fire alarm is detected, FIRE ALARM will be displayed and the sounder will pulse. If a fire is in progress, evacuate the premises immediately! If necessary, call the Fire Department from an outside phone. If there is no evidence of a fire, disarm (if armed) to turn off the alarm (it may have been programmed to shut off automatically after a preset time). Press the [RESET] Button to silence the sounder. After the alarm condition is restored, pressing the [RESET] Button again will reset the keypad within about 10 seconds.

Fire-Zone Trouble.

If a break in the wiring is detected, FIRE TROUBLE will be displayed and the sounder will pulse. Disarm (if armed), press the [RESET] Button to silence the sounder and call for service. To display Fire-Zone status, press the [FUNCTION] Button 4 times (Display Fire Status), then the [ON/OFF] Button to display the condition of the Fire Zones.

Would You Like More Safety Information?

For more information on home fire detection, burn safety, and home fire safety, write to the National Fire Protection Association, Public Affairs Dept. 05A, Batterymarch Plaza, Quincy, MA 02269.

PREPARING A FIRE ESCAPE PLAN

Even with the most advanced fire alarm system, adequate protection requires an escape plan. To prepare your plan:

Draw floor plans of your building. Show two exits — a front or back door and a window from each room. (Make sure the window works. You may need a special fire-escape ladder if the window is high up.) Write down your outside meeting place.

Family Rehearsal

Rehearse each of the following activities:

1. Everyone in his room with the doors closed.

2. One person sounds the alarm.

3. Each person tests his door.

4. Pretend the door is hot and use the alternate escape exit.

5. Everyone meets outdoors at the assigned spot.
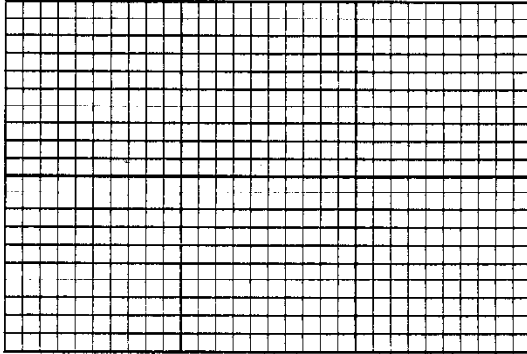
FLOOR PLAN

IMPORTANT! — Read Carefully.

Discuss these escape procedures with all those who use the building:

1. In a residence, sleep with the bedroom door closed. A closed door will hold back deadly smoke while you escape.

2. When the fire alarm signals, escape quickly. Do not stop to pack.

3. Test the door. If it is hot, use your alternate route through the window. If the door is cool, brace your shoulder against it and open it cautiously. Be ready to slam the door if smoke or heat rushes in. Crawl through smoke, holding your breath. Close the doors again on leaving to help prevent the fire from spreading.

4. Go to your specific outdoor meeting place so you can see that everyone is safe.

5. Assign someone to make sure nobody returns to the burning building.

6. Call the Fire Department from a neighbor's telephone.

KEYPAD FUNCTIONS

The keypad can provide a wide assortment of functions. The complete Function Menu is provided below in its displayed sequence, however some of the functions are intended for use by the installer or servicer and are so noted. (When in the Function Mode, you may use the [BYPASS] Button to step backwards.) To select any function, press the [FUNCTION] Button the respective number of times, then press the [ON/OFF] Button to execute that function. For example, to select Function 5 (Display System Trouble), press the [FUNCTION] Button 5 times, then press the [ON/OFF] Button to execute.

Function 1: Display Status. Identifies zones that are in a fault condition.

Function 2: Display Directory. Scrolls through all zones in the system, identifying each by number and programmed description.

Function 3: Display Bypassed. (Bypass programmed? ☐ YES ☐ NO.) Scrolls through all manually bypassed zones.

Function 4: Display Fire Status. Displays the condition of Fire Zones 1 and 2.

Function 5: Display System Trouble. Displays system troubles (LOW BATTERY, AC POWER LOSS, etc.).

Function 6: Display Alarm History. Alarm conditions occurring during the last four arm/disarm intervals are retained in memory. Alarm History #1 always contains the most recent interval; Alarm History #2 the next; etc.

Function 7: Display Sensor Activity. (Sensor Activity programmed? ☐ YES ☐ NO.) Displays activity of sensors connected to a PIR Zone. An ACTIVITY FAILURE message must be cleared using Function 17.

Function 8: Activate Fault Find*. Activates the Fault-Find Mode (diagnostic for installer's use only). If accidentally enabled, press the [RESET] Button.

Function 9: Activate Telco Test*. (Telco Test programmed? ☐ YES ☐ NO.) Activates a telephone-line test (programmed option).

Function 10: Activate Bell Test*. Activates the alarm (while disarmed) for about 2 seconds. If the alarm does not sound, call for service.

14

Function 11: Activate Service*. Activates the Service Code, a special arm/disarm code intended for temporary use by service personnel. Activate the Service Code just prior to arming. An "S" will appear in the display as long as the Service Code is active (and a Service Code has been programmed). Disarming with any regular Arm/Disarm Code will deactivate the Service Code.

Function 12: Activate Watch*. (Watch Mode programmed? ☐ YES ☐ NO.) This optional feature simultaneously turns on all zones designated as Day Zones. When activated, a "W" will appear in the display. To deactivate the Watch Mode, arm, then disarm. All Day Zones will revert to regular Burglary Zones.

Function 13: Activate Chime*. (Chime programmed? ☐ YES ☐ NO.) The Chime Mode will sound a momentary tone at the keypad when the programmed zone is opened while disarmed. A "C" will appear in the display as long as the Chime Mode is active. To deactivate the Chime Mode, select Function 13 again.

Function 14: Activate Locate*. This feature will help find zone problems and indicate when they are repaired. When activated with one or more problem zones, the sounder will come on and the display will read LOCATE, then scroll through the zones "in trouble". As each zone is corrected, the sounder will stop briefly, signalling its repair, then the display will indicate the remaining problem zones. The sounder and display will continue in this manner until all zones are repaired or until the [RESET] Button is pressed.

Function 15: Activate Exit Time. If your system reports to a central station on arming, it may have been programmed to start exit delay after the central-station "ringback" (verification) signal has been received. If the ringback tone has not been received within about 30 seconds after arming, a transmission problem may exist. Use Function 15 to start exit delay manually, then exit the premises immediately. Be sure to have your alarm specialist check communications with the central station as soon as possible.

Function 16: Activate Program*. Activates the Program Mode. Then, to enter the Program Mode, enter your Program Code and press the [ON/OFF] Button.

Function 17: Reset Sensor Message. Function 17 must be utilized to clear the PIR ACTIVITY FAILURE message from the display. The display can be recalled using Function 7.

Function 18: Activate Download*. (Manual Download programmed? □ YES □ NO; Remote Download programmed? □ YES □ NO.) Activates the Manual Download Mode (for installer or servicer's use only). If accidentally enabled, press the [RESET] Button.

******EXIT******. When displayed, press the [ON/OFF] Button to exit, or simply press the [RESET] Button anywhere in the Function Menu to exit.

*When armed, displays [XX-N/A WhenArmed], indicating that the function is not available when the panel is armed.

PROGRAMMING

The Program Mode is used to customize codes, exit/entry times and zone descriptions to your specific needs. To access the Program Mode, first select Function 16 (press the [FUNCTION] Button 16 times, then press the [ON/OFF] Button). Then enter your Program Code and press the [ON/OFF] Button.

NOTE: (1) If the system contains more than one keypad, only the keypad designated No. 1 may be used for programming (if in doubt, ask your installer). (2) The operation of the keypad buttons in the Program Mode is different from that in normal operation. Refer to the illustration on page 7 for keypad functions in the Program Mode. (3) While in the Program Mode, the ARMED and STATUS lights will extinguish and burglar and fire alarm functions are disabled. (4) If the keypad detects no activity in the Program Mode for more than 4 minutes, a short tone will sound and the keypad will revert to its normal operating mode. (5) The programmed code, time, or description will not be permanently stored until you press the SAVE ([ON/OFF]) Button.

Use Keys [1] and [2] to move the display cursor (position indicator) left and right, respectively; use Keys [4] and [7] to scroll up and down through the numbers, letters, etc. Press the NEXT Button ([INSTANT]) to advance to the next display line, or the PRIOR Button ([INTERIOR]) to go back to the previous line. Note that when each of these buttons is held down, the display will scroll rapidly through the respective function.

User (Arm/Disarm) Codes. Up to 16 Arm/Disarm Codes may be programmed. Enter up to 6 digits for each code; a minimum of 4 is recommended. Do not attempt to program any blank spaces. The keypad will reject a number with blanks by sounding a steady tone; silence the tone by pressing any button, then complete the code. In selecting your codes, do not program repetitive numbers, consecutive numbers, your birth date, address, or other obvious combinations. SAVE the code by pressing the [ON/OFF] Button. Press the NEXT Button ([INSTANT]) to advance to the next code.

NOTE: To change a code, simply program the new code over the existing one, then press the SAVE Button. (It is recommended that you change your code from the installed code.) To void a code, blank out each number using the BLANK Button (Key [5]), then press the SAVE Button.

Service Code. Program as a regular Arm/Disarm Code. Press NEXT to continue.

Program Code. A six-digit code. Do not divulge this code to anyone not authorized to program. Program as previously described.

Access Code. A six-digit code used to activate a door striker (to remotely unlock a door) while disarmed.

Ambush Code. A two-digit code entered prior to the Disarm Code.

Exit Time. A delay that allows time to arm and exit without setting off the alarm. Program in seconds using all three digits, thus 30 seconds is programmed as "030"; 2 minutes as "120".

Entry Time 1. A delay that allows time to disarm when entering through the main entrance without setting off an alarm. Program as for Exit Time above.

Entry Time 2. Similarly, this delay allows you time to disarm when entering through a secondary entrance (rear door, garage, etc.). See **Exit Time**.

Zone Descriptions. When entering zone descriptions, Keys [4] and [7] scroll through numbers, letters, punctuation marks and a variety of symbols. Enter an identifying description for each zone in use (up to 64).

- Programming may be expedited using the WORDS Button (Key [6]), which will display a list of frequently-used zone-related words and phrases from which to choose. Select with Key [6] and save with the [ON/OFF] Button.

- To move all text to the right of the cursor one space to the right, simultaneously press TEXT RIGHT Buttons ([*] and [2]).

- To move all text to the right of the cursor one space to the left, simultaneously press TEXT LEFT Buttons ([*] and [1]).

- To copy a description from one zone to another, (a) display the description to be copied and simultaneously press the FROM Buttons ([*] and [8]); (b) display the new zone and simultaneously press the TO Buttons ([*] and [9]). (NOTE: the COPY feature may have been disabled.)

- To delete a complete description, simultaneously press the BLANK Buttons

([*] and [5]).

PROGRAMMING EXAMPLES

(Refer to KEYPAD CONTROLS & INDICATORS for for keypad button functions in the Program Mode.)

Example 1. Program User 1's Arm/Disarm Code, "3,7,8,4".

1. Select Function 16: Press the [FUNCTION] Button 16 times, then press the [ON/OFF] Button. Enter your Program Code, then press the [ON/OFF] Button to enter the Program Mode. The display will briefly read   PROGRAM1 #XXXX , and then   USER 01 (XXXXXX) (User 1's existing Arm/Disarm Code.

2. Using Key [4] to scroll up or Key [7] to scroll down, hold down the key until "3" is displayed as the first digit.

3. Momentarily press Key [2] to move the cursor one digit to the right. Repeat Step 2 until "7" is displayed as the second digit.

4. Repeat Steps 2 and 3 for the third and fourth digit. until the display reads "3784". Press the SAVE Button ([ON/OFF]) to memorize the code.

5. To program User 2's Arm/Disarm Code, press the NEXT Button ([INSTANT]) and repeat the procedure. To terminate the Program Mode, press the [RESET] Button.

Example 2. Program Zone 1 with the Zone Description, "JOHN'S ROOM".

1. Select Function 16: Press the [FUNCTION] Button 16 times, then press the [ON/OFF] Button. Enter your Program Code, then press the [ON/OFF] Button to enter the Program Mode. The display will briefly read   PROGRAM1 #XXXX , and then USER 01 (XXXXXX) (User 1's Arm/Disarm Code).

2. Hold down the NEXT Button; the display will scroll past all the codes and the exit and entry times. Release the button when "01" (the message line for Zone 1) is displayed. (If you pass "01", press PRIOR Button.)

3. In this mode of programming, Keys [4] and [7] will scroll not only through

numbers 0-9, but also through the alphabet, punctuation marks, and assorted symbols to permit English-language description programming.

4. Also in this mode of operation only, the WORDS Button (Key [6]) provides a library of zone-related words (see next page). Press Key [6] repeatedly until 01 COMPUTER ROOM is displayed.

5. Program the word "JOHN'S" directly over the word "COMPUTER".

Use Keys [4] and [7] to scroll through the alphabet until a "J" is displayed as the first letter. Press Key [2] to move the cursor to the right and repeat for letter "O", etc. Continue letter by letter until 01 JOHN'SER ROOM is displayed, then blank out the "ER" using Key [5].

6. Using the CURSOR RIGHT Button (Key [2]), move the cursor so that it is over the "R" in "ROOM".

7. Holding down the [*] Key, press Key [1] (Text LEFT) twice to move the text to the left. To save the description, press the SAVE ([ON/OFF]) Button. (NOTE: If you press the NEXT or PRIOR Button before pressing the SAVE Button, the description will be lost!)

WORDS Button

Following is the contents of the description library, which is selected by the WORDS Button Key [6] (only in the Zone- Description Program Mode).

ZONE NOT USED	BEDROOM
FRONT DOOR	LIVING ROOM
BURGLARY ZONE	GARAGE
COMPUTER ROOM	OFFICE
BASEMENT	DINING ROOM
HALL	STOCKROOM
BATHROOM	FAMILY ROOM
KITCHEN	STUDY

KEYPAD MESSAGES

The keypad can display the following functional messages. (Programming displays are shown in the Programming section.) Other diagnostic messages are available for the installer or servicer. Should any unfamiliar message appear, call your dealer for service.

*SYSTEM READY*CW All zones operating; system can be armed. C denotes Chime Mode on; W denotes Watch Mode on.

PLEASE WAIT   Panel reporting to central station on arming. Wait for ringback signal before exiting.

EXIT TIME XXX SI Exit delay in progress. XXX denotes exit time remaining; S indicates Service Code active; I indicates arming with Instant protection.

ENTRY TIME XXX Entry delay in progress. XXX shows entry time remaining.

*****ARMED****SI Panel armed. S and I indications as above.

ZONE FAULTCW Trouble condition. Display Troubles to identify zone(s). C and W indications as above.

PRIORITY TROUBLE Arming attempted with Priority Zone in trouble. Press [ON/OFF]. Display Status. Correct trouble to arm.

DAY ZONE TROUBLE Trouble condition on Day Zone, followed by one or more zone descriptions.

ZONES FAULTED (When Status displayed) indicates zone(s) in fault condition.

CHECK TROUBLE System trouble exists. (After trouble is checked, system may be armed within 5 minutes.)

ALARM   Alarm condition, followed by zone description(s).

FIRE TROUBLE   (When Fire Status displayed) trouble condition on Fire Zone. Press [RESET] to silence sounder. Correct trouble, then press [RESET] again.

FIRE ALARM   (When Fire Status displayed) alarm condition on Fire Zone.

Press [RESET] to silence sounder. Correct cause of alarm; press [RESET] again.

NORMAL   (When Fire Status displayed) Fire Zone normal.

ZONES BYPASSED   (When Zones Bypassed displayed) indicates zones that have been deactivated.

SYSTEM TROUBLE   (When System Troubles displayed) indicates system trouble(s) (below).

LOW BATTERY   Battery weak. If not recharged within 24 hours, replace.

AC POWER LOSS   Check power transformer. Check for blown fuse or circuit breaker; general power outage.

TELCO LINE FAIL   Failure of dial-tone test.

FAIL TO COMM   Unsuccessful communication to central station.

ALARM HISTORY #1 Displays alarm conditions of last arm/disarm interval. Similarly, Alarm History #2, #3, and #4 display previous arm/disarm intervals.

TESTING   (After Function 9 selected) Phone-line test in progress.

FAIL, HIT RESET Dial-tone test failed; press [RESET] Button.

FAULT FIND   Fault-Find Mode activated; press [RESET] Button.

LOCATE   Locate Mode activated.

THE FOLLOWING STATEMENT IS REQUIRED BY THE FCC.

This equipment generates and uses radio-frequency energy and, if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class-B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause 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: reorient the receiving antenna; relocate the computer with respect to the receiver; move the computer away from the receiver; plug the computer into a different outlet so that computer and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, DC 20402; Stock No. 004-000-00345-4.

Ringer Equivalence Number.

The FCC Registration Label, found on top of your system and on the bottom of your telephone sets, includes the ringer equivalence number (REN). This is a representation of the electrical load that will be applied to your telephone line. This system has a ringer equivalence of zero. Therefore, it does not affect the load of the telephone company central office equipment when your telephones ring. The telephone line servicing your premises will not operate properly if the total ringer load exceeds the capability of the central office equipment. That is, if too many ringers are connected to the line, there may be insufficient energy to ring your telephones. If the ringer load is excessive, you may also have difficulty dialing telephone numbers.

If you want to know the total REN allowed for your telephone line, you may call

24

your telephone company. However, as a rule of thumb, a total REN of five (5) should permit normal operation of your telephone sets and equipment. To determine the total ringer load, list the REN of each of your telephone sets or devices connected to your telephone line. Add these numbers; the result is the total REN for your line. If this number exceeds 5, you may want to consult your telephone company to determine whether or not proper operation of your equipment is possible.

If a Digital Communicator is Connected to a Telephone Line:

Do not notify the telephone company. It is no longer necessary to call the telephone company to notify it of the registration and ringer equivalence numbers of any telephone instrument being connected to the public switched telephone network. The telephone company will call and request this information if a need arises in the future.

Rights of the Telephone Company

If your digital communicator causes harm to the telephone network, the telephone company may discontinue your service temporarily. If possible, they will notify you in advance. But if advance notice is not practical, you will be notified as soon as possible. You will be given the opportunity to correct the situation and you will be informed of your right to file a complaint with the FCC.

Your telephone company may make changes in its facilities, equipment, operations or procedures that could affect the proper function of your communicator. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted service.

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 Buyer's order of the goods furnished hereunder.

NAPCO 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. NAPCO 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.

NAPCO 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 NAPCO'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, NAPCO 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 NAPCO's insurer upon written notice from user by Certified Mail, Return Receipt Requested, to NAPCO'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.

D.R.