


NAPCO

 NAPCO SECURITY SYSTEMS, INC.
 339 BAYVIEW AVENUE
 ARMTVILLE, NEW YORK 11701

 SALES, REPAIRS & TECHNICAL SERVICE
 TOLL FREE: (800) 442-2444

TWX: 610-227-9854

RP1016LCD KEYPAD

© NAPCO 1990

Design Pats. Pending

WI535A 12/90

DESCRIPTION

The RP1016LCD is a user-friendly backlit keypad designed for Napco's UL-listed MA1016 control panels or for use as a replacement for RP1016 keypads (note RP1016LCD current requirements). A large alphanumeric liquid-crystal display (LCD) functions as a readout for control-panel information and zone identification, and can also serve to display messages downloaded from PCD2000 Quickloading software. The keypad functions as a programmer as well in its secondary mode of operation. Installation is quick and easy using only four wires.

This manual provides installation information only. Refer to the accompanying User's Guide (OI148) for keypad functions and operation, and to the manual furnished with the control panel for panel installation and dealer programming information.

SPECIFICATIONS

Operating Voltage: 9.0-13.0Vdc (supplied by panel)
 Current: 64mA typ., normal backlighting
 Dimensions (HxWxD): 4-3/8" x 5-7/8" x 1-1/16"

MOUNTING

Opening the Keypad. There are two slots along the bottom edge of the keypad about 1 inch from each side. To open, insert a medium screwdriver into either slot and push up with a slight twisting motion to release the retainer tab. Repeat for the other slot. Pull out at the bottom and lift off the two hooks at the top.

When installing the rear case, be sure that the words "TOP" and "UP" (molded into the case) are properly oriented. The rear case is provided with a variety of holes to accommodate virtually any mounting situation. The four holes nearest the center are designed to fit a double-gang box. The four slotted holes are for mounting directly into a wall with screws suitable for the surface material; the slots allow levelling adjustment. The four corner holes may be used when replacing an RP1016 Keypad with RPB-1 Backplate for surface mounting directly onto a wall. The RP1016LCD replaces both the keypad and the backplate.

WIRING

Caution: Before connecting keypad, remove both ac and

battery power. Check keypad wiring to panel: red is "+"; black is "-". Wire the keypad to the control panel as follows:

Keypad Color Code	MA1016 Terminal
Yellow	5 (Area 1) or 6 (Area 2)
Green	7
Red	3
Black	4

Note: If using a soldering iron, be careful not to splash solder onto the keypad circuit board or components, as damage could result.

Backlighting. Backlighting requires no additional wiring. In normal use, the keypad is always dimly backlit. Pressing any key will increase the brightness to facilitate code entry, but after 30 seconds of keypad inactivity, brightness will again be reduced. To disable backlighting, see JUMPER OPTIONS.

JUMPER OPTIONS

Several white jumpers provide a wide variety of options. They are conveniently located around the perimeter of the board for easy access. To identify the location of the jumpers, refer to the label affixed to the fishpaper on the back of the board.

Disable Keypad Panic. Cut Jumper A to disable the keypad panic buttons, Keys [*] and [#].

Display Only Area-1 Zones. Leave Jumper B intact.

Display Only Area-2 Zones. Cut Jumper B.

Disable Keypad Sounder. Cut Jumper C to completely disable the sounder.

Disable Tactile Beep. Cut Jumper D to silence the tone that sounds whenever a keypad button is pressed.

Disable Touchpad Backlight. Cut Jumpers W1 and W3 to disable touchpad backlighting.

Disable LCD Backlight. Cut Jumper W2 to disable LCD display backlighting.

LCD ADJUSTMENT

The viewing angle for the LCD display is adjustable by means of the LCD ADJUST screwdriver control on the back of the circuit board (refer to label affixed to the board). Viewing the board at its normal mounting height, turn the

control clockwise or counterclockwise for optimum contrast.

CONFIGURING THE KEYPAD

The keypad must be configured to match the panel configuration with regard to the number of zones, number of user codes, area designations, etc. Programming in the Configuration Mode is similar to that in the Dealer Program Mode (see DEALER PROGRAM MODE) except that the BLANK Button (Key [6]) and PRIOR Button (Key [8]) are not enabled (although Key [8] is still used to exit). To enter the Configuration Mode, arm, disarm, press Key [#], then Key [2]. Proceed as follows.

1. At the # OF ZONES display, program "14". Press Key [S] to save. Press Key [4] (NEXT) to continue or Key [8] to exit.

2. At the # OF USER CODES display, program "15". Press Key [S] to save. Press Key [4] (NEXT) to continue or Key [8] to exit.

3. At the PANEL CONF display, program "...1". Press Key [S] to save. Press Key [4] (NEXT) to continue or Key [8] to exit.

4. At the AREA1 MASK display, program 4 digits as follows: In Table 1 below, circle the values shown for the Area-1 zones selected. Add up the circled values for each of the 4 groups, the four totals representing the 4 programmed digits. Note that each digit can have a total value of 1 through 15, as represented by numbers 1 through 9, 0, and letters B-F, where "0" represents 10 and "." represents a zero. (For detailed programming instructions, refer to PROGRAMMING in the MA1016 Installation Manual, WI455.) Program those 4 digits, in order. Press Key [S] to save. Press Key [4] to continue or Key [8] to exit.

5. At the AREA2 MASK display, repeat Step 4 for the Area-2 zones selected. Press Key [S] to save or Key [8] to exit.

	ZONE																												
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
AREA 1	2	1	8	4	2	1	8	4	2	1	8	4	2	1	2	1	8	4	2	1	8	4	2	1	8	4	2	1	
AREA 2	2	1	8	4	2	1	8	4	2	1	8	4	2	1	2	1	8	4	2	1	8	4	2	1	8	4	2	1	
	1st digit				2nd digit				3rd digit				4th digit																

Table 1. Four-Digit Area 1/Area 2 Mask Programming.

DOWNLOADING ENGLISH-LANGUAGE MESSAGES

Zone descriptions, a new "Ready" message, shutdown messages and configuration information (automatic—no entry needed) can be downloaded using Napco's Quickloader system and your PC-compatible computer. Refer to the on-line help screens and the instructions furnished with the PCI2000 interface (WI443) and accompanying PCD2000 software (WI446).

Zone descriptions, the new "Ready" message and panel configuration information can be transferred from the programmed keypad (master) to the unprogrammed others (slaves) in the system using one of the following methods. Program the required zone descriptions into any one of the keypads. As a safety precaution, remove ac and dc power to the panel, then proceed as follows.

1. Wire all keypads to the control panel and reapply power.
2. Hold down Key [9] (RESET) until the keypad sounder

beeps.

3. On the master keypad, arm the panel, disarm, press Key [#], then press Key [1]. The master keypad will start transmitting data to all slaves while it alternately displays PLEASE WAIT and *SENDING ZONE ID. Similarly, the slave keypads receiving data will alternately display PLEASE WAIT and RECVING ZONE ID.

4. After data transmission is completed, check slave keypads for valid programming.

TESTING THE KEYPAD

To test the keypad after installation, simultaneously press Keys [*] and [3]. This will initiate a test that checks all LCD elements, the sounder, and both LEDs. Repeatedly pressing these keys will change the pattern displayed on the LCD. The test will terminate about 3 seconds after releasing the buttons.

COMPLETING THE INSTALLATION

To reassemble the keypad after installation, hang the top of the front panel onto the hooks in the rear case and push in firmly at the bottom until the retainer tabs snap into place. (If difficulty is encountered, push the retainer tabs up slightly using a screwdriver, as when removing.)

KEYPAD RESET

Pressing the four top buttons ([1], [2], [3], [4]) will reinitialize the keypad as from power-up. The keypad sounder will beep for about 1 second and the LCD will display **FORCED RESET** followed by RP1016 VXX, where XX is a two-digit number representing the software version. The keypad will then revert to normal operation.

HOLD-DOWN FUNCTIONS

The keypad functions that follow are selected by holding down the specified numerical key for about 2 seconds (until a beep sounds). To review the available functions at the keypad, hold down Key [*] and watch the display for a menu of "hold-down" functions (described below) with their respective activating keys.

- | | |
|-----------------------|--|
| [1] BELL TEST | Briefly activates sounding device. |
| [2] DISPLAY BYPASS* | Displays shunted zones. |
| [3] DISPLAY STATUS* | Displays faulted zones. |
| [4] INSTANT | Cancels entry delay. |
| [5] CHIME | Turns Chime Mode on or off. |
| [6] TELCO TEST | Activates a telephone-line test. |
| MANUAL D/L** | Downloads PCI2000 program. |
| [7] WATCH MODE | Turns on all Day Zones |
| FAULT FIND** | Activates the Fault-Find Mode. |
| [8] PROGRAM | Enters/exits Program Mode. |
| [9] RESET | Resets panel and keypad. |
| [S] ALARM HISTORY* | Displays last alarm. |
| [#] ZONE DIRECTORY | Displays zones by description. |
| [*] & [3] KEYPAD TEST | Checks keypad indications. (See TESTING THE KEYPAD). |

*Keep button depressed until all zones have been displayed.

**Hold down key within 10 seconds after arming and disarming.

DEALER PROGRAM AND CONFIGURATION MODES

To Enter Dealer Program Mode

- Hold down Key [8] until beep sounds.
- Enter Dealer Program Code.

To Enter Configuration Mode

- Arm; disarm; press Key [#], then Key [2].
- Configure 5 screens (see text)

NOTE: In Configuration Mode,

- Key [6] (BLANK) is not enabled.
- Key [8] is EXIT only.

To Access a Location

- Press [S] (Set Location).
- Enter 3-digit location.

To Change Data

- Use [DATA UP] and [DATA DOWN] to change entry.

To Increment/Decrement Location

- Use [PRIOR] and [NEXT] to change location.

To Exit Dealer Program Mode

- Hold down Key [8] about 2 seconds (until function beep).
- Enter Dealer Program Code:

CHARACTER NO.----> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A D D R = D A T A =

ARMED STATUS

1
PRIOR/←-CRSR

2
NEXT/CRSR->

3

4
NEXT

5
DATA/CHAR UP

6
BLANK

7

8
PRIOR/EXIT

9
DATA/CHAR DOWN

*
MENU

0 (S)
SET/SAVE

#

USER PROGRAM MODE

First, Enter User Program Mode

- Hold down Key [8] until beep sounds.
- Enter User Program Code.

To Program User Arm/Disarm Codes

- Press Key [S]; Enter User Number 01-18.
- Enter a 6-digit code.
- Press Key [S] three times to exit User-Code Program Mode.

To Program English-Language Messages

(Do not enter Program Mode.)

- Arm; disarm; press Key [#], then Key [3].
- Use [PRIOR] and [NEXT] keys to select zone.
- Use [←-CRSR] and [CRSR->] keys to move cursor.
- Use [CHAR UP] and [CHAR DOWN] keys to change entry. (Use [CHAR UP] and [*] or [CHAR DOWN] and [*] to change entry in lower case.)
- Use [BLANK] key to delete character at cursor. (Use [BLANK] and [*] to delete entire description.)
- Press [SAVE] key to store description in memory.

To Copy Description to Another Zone

- Move cursor to zone number using CRSR keys.
- Change number using CHAR UP/DOWN keys.
- Edit zone description as necessary.
- Press [SAVE] key.

To Move Text (All text to right of cursor)

- Left: Press [*] and [←-CRSR].
- Right: Press [*] and [CRSR->].

To Exit English-Language Program Mode

- Hold down Key [8] for about 2 seconds (until function beep sounds).