

# OPERATING AND INSTALLATION INSTRUCTIONS



**NAPCO**

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RP-1009, -1009I  
DIGITAL KEYPADS  
for the  
MA-850 & MA-900

**NOW WITH  
REMOTE PANIC  
OPTION!**

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WI319D 12/87

## GENERAL DESCRIPTION

The RP-1009 and RP-1009I Digital Keypads are remote arming stations with dual-function keys, indicator LEDs, digital display, Mini-Sounder indication, panic alarm and manual shunting capability. The RP-1009I keypad is illuminated, permitting the user to turn off lights before arming, or to disarm before turning lights on when entering.

TERMINAL CONNECTIONS	
KEYPAD WIRE COLOR	MA-850, -900 TERMINAL
Brown	1
Red	2
Orange	3
Yellow	4
Green	5
Blue	6
Violet	7
Gray	8
White	9
Black	} to remote panic switches (insulate if not used)
Pink	
White with black stripe (in RP-1009I only)	35 (MA-850) 45 (MA-900)

**NOTE:** If using a soldering iron, avoid splashing solder onto keypad circuit board or components.

## PROGRAMMING ARM/DISARM CODES AND ACCESS CONTROL CODE (MA-900 only)

1. Hold down Key [8] and enter the keypad Program Code. (Exceptions, MA-900 only: At power up, or if high-security keypad programming is enabled, push the START switch, then hold down Key [8].)
2. Press [S], then [1], then first 4-digit

Arm/Disarm Code. Press [S], then the user number ("2" through "4" in MA-850; "2" through "8" in MA-900), then four digits for each Arm/Disarm Code.

3. (For MA-900 only:) Press [S], then [9], then two to four digits for the Access Control Code.
4. Press [S] twice to exit the Program Mode.

## REMOTE PANIC

To connect a remote panic button, splice black and pink ribbon wires to a normally-open momentary pushbutton. Additional panic buttons may be similarly wired in parallel with the first, as needed. If remote panic will not be used, insulate both black and pink leads, as a short between them will cause a panic alarm. Note that in U.L. installations, remote-panic buttons must be located in the same room as the keypad.

## KEYPAD OPERATION

**Arm/Disarm** - Press the Arm/Disarm Code that has been programmed, or press the Fallback Code if no Arm/Disarm Codes are present.

**Tamper Lockout** - If the wrong code is pressed to arm or disarm, the keypad will lock up. Wait 2 seconds, then try again.

**Ambush Alarm** - Press the 2-digit Ambush Code (programmable), then the Disarm Code.

**Hold-Down Functions** - To enable any hold-down function, hold down the respective key until the Mini-Sounder beeps. See Page 2 for a table of hold-down functions for the MA-850 and MA-900.

HOLD-DOWN FUNCTIONS		
KEY	MA-850 FUNCTION	MA-900 FUNCTION
1	Test	Test
2	Display Shunt	Display Shunt
3	Display Status	Display Status
4	Instant Alarm	Instant Alarm
5	Door Chime	Start Exit Delay w/o Ringback
6	Communicator Confidence	Communicator Confidence
7	Fault Find	Fault Find
8	Program	Program
9	Reset/Bypass	Reset/Bypass
S	Alarm History	--

**Alarm Reset** - Disarm to silence an alarm sounding device.

**Panic Alarm** - Press [\*] and [#] keys (at the same time) or a remote panic button, if installed, to signal a panic alarm.

**Shunting** - Shunt when disarmed. Press Key [S] then zone number to bypass a zone programmed for selective shunt. Press Key [S] twice to bypass all zones programmed for group shunt. Yellow LED will glow when zones are manually shunted. Hold down Key [2] to display manually shunted zones. Disarm to cancel shunt.

**Panic Jumper** - To disable keypad panic, cut the brown jumper at lower end of the circuit board, behind Key [S].

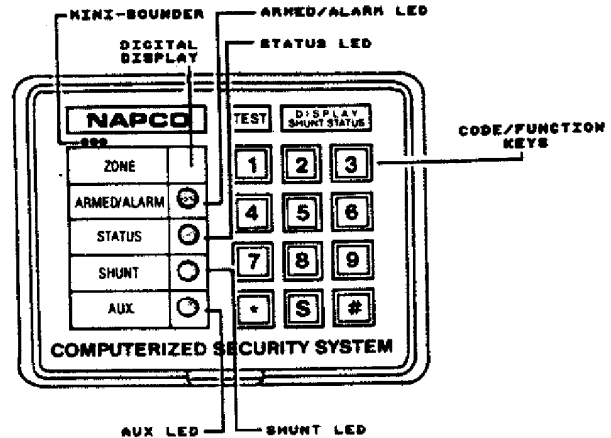
## INDICATORS

### ARMED/ALARM (Top Red) LED:

- On steady - Armed.
- Slow blink - Alarm on Non-24-Hour Burglary Zone.
- Rapid blink - Instant Alarm (exit/entry delay cancelled.)

### STATUS (Green) LED (when disarmed):

- On steady - Non-24-Hour Burglary Zones okay.
- Blink every second - Non-24-Hour Burglary Zone(s) in trouble.
- Rapid Blink - Day Zone in trouble.



Keypad controls and indicators

### SHUNT (Yellow) LED:

- On steady - At least one zone manually shunted.

### ARMED/ALARM, STATUS & SHUNT (Together):

- Slow blink - Ac power loss.
- Rapid blink - Keypad in Program Mode.

### AUX. (Bottom Red) LED:

- On steady - Alarm on the Supervisory Zone.
- Blinking - Trouble on the Supervisory Zone.

### Digital Display:

- Flashing zone number(s) - Non-24-Hour Zone in alarm condition or day supervision trouble.
- Displays zero with Mini-Sounder on - Unsuccessful attempt to arm with Priority Zone trouble; display memory not reset after alarm trouble; or an ac power loss not bypassed.

### Mini-Sounder:

- On steady immediately after arming - priority condition. System cannot arm. Disarm to silence sounder.
- On steady upon entry - Entry delay per-

iod in progress.

2-second beep - Zone auto-shunted; 24-Hour Zone latched in fault condition; or low-battery condition exists. Hold down Key [3] to display zone(s).

3-second beep shortly after arming - central station "ringback" verifies receipt of closing report.

Pulsing, with digital display - Day Zone trouble.

Pulsing and AUX. LED on - Supervisory Zone alarm/trouble. (Hold down Key [9] to silence alert.)

## MOUNTING

### Mounting onto the Control-Center Door

1. Use a screwdriver to remove the knockout in the front door of the control center.
2. Align the mounting holes on the keypad with the mounting slots in the cabinet door.
3. Secure in place with #6 screws and nuts.

### Surface Mounting onto a Wall Using an RPB-1

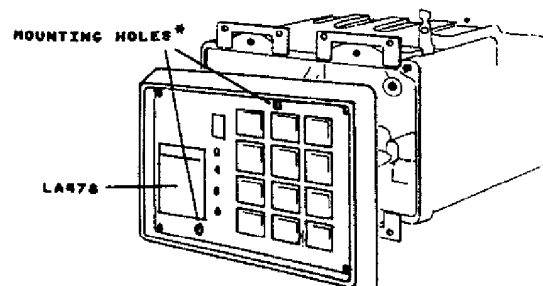
1. Mount the RPB-1 onto the wall using #6 pan head screws.
2. Pull wires through the hole in the back or run a 10-conductor cable through the smaller hole in the side. Keypad wires may have to be shortened to fit.
3. Raise the keypad front panel and mount the keypad onto the RPB-1 with the screws provided. Lower the front panel.

### Flush Mounting into a Wall Using the RPB-2

1. Hold the mounting box flush against the wall, (with mounting ears towards the wall) and mark around the outside of the box with a pencil.
2. Carefully cut out the hole for the box, insert into the wall, and tighten mounting screws.
3. Raise the keypad front panel and position the keypad on the RPB-2 box. (Only the RPB-2 may be used; any other double-

gang box may be too small.)

4. Use the mounting holes to secure the keypad to the RPB-2 with #6 screws.
5. Lower the keypad front panel.



\*USE 4 CORNER HOLES FOR MOUNTING WITHOUT A JUNCTION BOX. SEE BELOW AND TEMPLATE ON PAGE 4

### Keypad in RPB-2 Double-Gang Box. (Front panel of keypad omitted for clarity.)

### Flush Mounting Without a Mounting Box

See mounting template on Page 4.

1. Pin the template to the wall, or mark through the template onto the wall.
2. Cut carefully around the lines shown. (Caution: A poorly cut hole may show after mounting.)
3. Raise the keypad front panel and screw the keypad onto the wall.

### Completing the Installation

1. Raise the front panel. If used with an MA-850 control unit, affix the "MA-850 SYSTEM COMMANDS" label (LA541) over the equivalent portion of factory-applied label LA-489.
2. Complete the areas of protection for the respective zones listed on label LA-478. If used with an MA-850 control center, ignore ZONE 9, AUX-1, and AUX-2. Affix LA-478 to the keypad as shown above.
3. Upon completion, lower the front panel and remove its protective film covering.