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## CHAPTER 1- SUMMARY of USER'S COMMANDS

The Summary of User's Commands offers installers and users a quick and convenient way to operate control panel. All can be done under the state of disarm and so it doesn't need to enter programming statue. For detailed information, please go chapter 2.

| Function                    | Procedure                                   |
|-----------------------------|---|
| Quick arm                   | [ARM]                                       |
| Arm by code                 | [ARM]+[master code]                         |
| Stay Arm                    | [STAY]                                      |
| Stay Arm by code            | [STAY]+[master code]                        |
| System disarm               | [user code]                                 |
| Bypass disarm               | [duress code]                               |
| Free from siren             | [user code]                                 |
| Bypass/un-bypass zone       | [*]+[1]+[user code]+[zone number]           |
| Quick bypass/un-bypass zone | [zone ]at least 2 seconds                   |
| Display trouble             | [*]+[3]                                     |
| Display time                | [*]+[4]                                     |
| Set/change main code        | [*]+[5]+[master code]+[0]+[new code]        |
| Set/change a user code      | [*]+[5]+master code]+[1-9]+[new code]       |
| Set date                    | [*]+[6]+[1]+[master code]+[MM][DD][YY]      |
| Set time                    | [*]+[6]+[2]+[master code]+[H][H][M][M]      |
| Auto arm time               | [*]+[6]+[3]+[master code]+[H][H][M][M]      |
| Set follow-me phone no. 1   | [*]+[7]+[1]+[master code]+[phone No. 1]+[#] |
| Set follow-me phone no. 2   | [*]+[7]+[2]+[master code]+[phone No. 2]+[#] |
| Set follow-me phone no. 3   | [*]+[7]+[3]+[master code]+[phone No. 3]+[#] |
| Set follow-me phone no. 4   | [*]+[7]+[4]+[master code]+[phone No. 4]+[#] |
| On/off buzzer               | [*]+[8]+[master code]+[1]                   |
| On/off door chime           | [*]+[8]+[master code]+[2]                   |
| Audible kiss-off            | [*]+[8]+[master code]+[3]                   |
| Display memory              | [*]+[9]+[master code]+[enevt number]        |
| Test system                 | [*]+[0]+[master code]                       |
| keypad panic alarm          | [1]+[2] at leadt 2 seconds                  |
| keypad fire alarm           | [4]+[5] at least 2 seconds                  |
| keypad special emergency    | [7]+[8] at least 2 seconds                  |
| Escape                      | [ESC]                                       |

| Trouble Table | LCD              | Trouble                             |
|---------------|------------------|-------------------------------------|
|               | Battery Low      | The Backup Battery Power is low.    |
|               | AC Power         | AC Power is lost.                   |
|               | No Clock         | Clock have not been set             |
|               | No Communication | The Communication is in trouble.    |
|               | No Siren         | The Siren connection is in trouble. |

## CHAPTER 2 – ABOUT THE KEYPAD

### RP208KCL (LCD Keypad)

The RP208CN can support LCD Keypad. Each control panel can work with four LCD Keypads at most.

Each keypad in your system reports its status by its LED (lighted) indicators and LCD display. Through its keys, you can enter commands to Arm and Disarm the system, bypass intrusion zones, report emergencies, stop the siren, checking the trouble, programming the system and other handling.

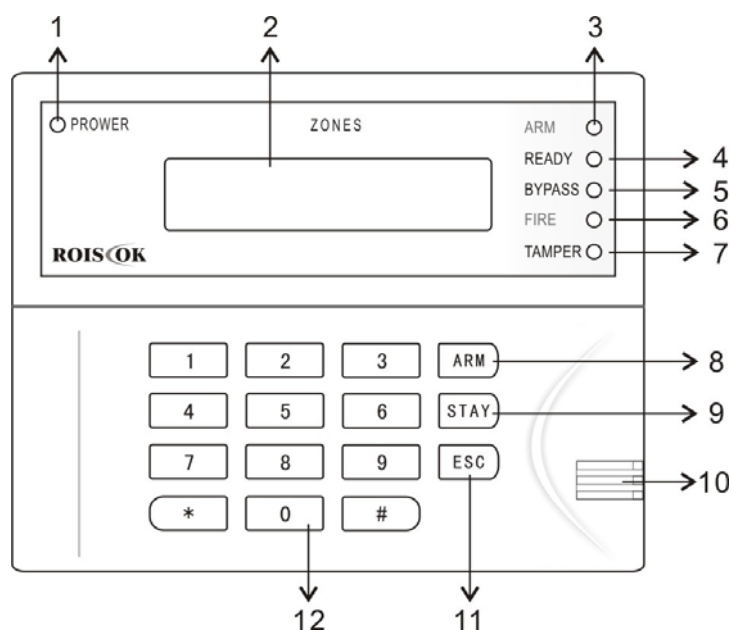


Fig.1 Layout of the RP208KCL

#### Keypad Instruction

- |               |                                 |
|---------------|---------------------------------|
| 1—Power       | 7- Tamper                       |
| 2—LCD Display | 8—Arm key-press                 |
| 3—Arm         | 9—Stay key-press                |
| 4—Disarm      | 10—Buzzer                       |
| 5—Bypass      | 11—Exit/Delete key-press        |
| 6—Fire        | 12—Digit and Function key-press |

## LED Indication and Keys

### 1. Power LED

- On--The system is operating properly from commercial (AC) power; its backup battery is in good condition.
- Off--The system is inoperative due to the lack of power (from both commercial AC and backup battery).
- Flash-- Indicates a trouble condition.

### 2. LCD Display

The **LCD Display** on RP208KCL indicate the status of each of the system, including zones Triggered, Armed/Disarmed system, Trouble, Time and other programming information. If there is only "ROISCOK" on the display, which means all the zones are not triggered. When Z1, Z2, Z3, Z4, Z5, Z6, Z7 or Z8 is/are displayed on the display, which means the zone is triggered:

| Statue  | Explanation                                    |                                |
|---------|--|--------------------------------|
|         | System Disarmed                                | System Armed                   |
| ROISCOK | All the zones are secured and working normally |                                |
| Z1      | Zone 1 was triggered                           | An alarm has occurred on Zone1 |
| Z2      | Zone 2 was triggered                           | An alarm has occurred on Zone2 |
| ...     | ...  | ...                            |
| Z8      | Zone 8 was triggered                           | An alarm has occurred on Zone8 |

### 3. ARM LED

The **ARM LED** indicates whether or not the system is armed. In armed condition, the ARM LED is on, in case of any violations, there will be an alarm. The ARM LED is flashing, which means burglar, fire or emergency alarm once has/have occurred in the corresponding zone(s). The ARM LED is off when the system is disarmed.

| Statue   | EXPLANATION   |
|----------|---|
| On       | When the system is armed, in case of any emergency, an alarm will occur. The Siren will sound, and system will also dial the follow-me numbers and send alarm report to alarm center. |
| Off      | The system is disarmed.   |
| Flashing | Burglar, fire and/or has/have once occurred.  |

#### 4. READY LED

The Ready LED indicates whether the system is working normally or not, and also indicates whether system can be armed or not. When disarm, the LED will be on; when arm, the LED will be off.

| STATUS   | EXPLANATION   |
|----------|---|
| On       | All the zones are working normally, and then the system can be armed now. |
| Off      | 1. Someone is moving in the zone.<br>2. The system is armed.              |
| Flashing | The system is under the programming status                                |

#### 5. BYPASS LED

The **BYPASS LED** Indicate that one or more of the system's intrusion zones have been bypassed; for more information on bypassing.

#### 6. FIRE LED

When fired the LED flashing rapidly.

#### 7. TAMPER LED

When the detector(s) or the keypad is /are tampered or destroyed, a Tamper Code report will be sent and the LED will be flashing.

#### 8. System Arming [ARM]

When [ARM] key is depressed, all the zones are armed.

#### 9. Stay Home Arming [STAY]

Home Arming (or Stay Arming) allows individuals to remain inside and move about the premises even after the system is armed. Home Arming arms the perimeter detectors (e.g. door and windows), while leaving interior detectors (e.g. motion detectors) disarmed (bypassed). When [STAY] key is depressed, the interior zones will not be armed.

#### 10. Exit/Delete [ESC]

Key [ESC] is suitable for correction system operation

## 11. Digit Keys

When programming, key in 0-9 digits.

## 12. Function Key [\*] [#]

When programming, key [\*] to enter function mode; and [#] for confirmation.

## Function and Operation

### Keys and Functions

The Keys can support the following functions:

1. Enter digit(s) for Arming, Disarming, Panic Alarm, Programming etc.
2. Enter user's function mode.
3. Key [ARM] is for Quick Arming and Code Arming. By pressing it, the system will be fully armed.
4. Key [STAY] is for Quick Stay Arming and Code Stay Arming. By pressing it to arm, only part of the zone is armed. Each zone can be set as interior zone or external zone. When use [STAY] for arming, the external zone is armed while leaves the interior zone disarmed.
5. Under the disarmed status, press [\*] to enter user's function mode.

Reference to **CHAPTER 1- SUMMARY of USER'S COMMANDS**

### 1. Setting/Changing and Deleting User's Code

The default Master Code of RP208CN is 1-2-3-4. Unless your alarm company has already changed it to suit your preference, it's best to modify this code to one which is unique and personalized. RP208CN can set 10 of Codes, one is Master Code and another 9 are User's Codes. To change the Master Code, and /or to set up User Coeds, follow the steps. Make sure the system is disarmed when setting the code. The User's Codes are only for Arming and Disarming the system

Functions of the Master Code:

- Adding, changing and deleting User's Code
- Setting Time Clock
- Operating and testing
- Setting the follow-me numbers

### Setting / Changing the master Codes

| Step | Operation   |
|------|---|
| 1    | The system must be disarmed (the ARMED LED will be OFF). Enter the User Functions Mode [*][5]   |
| 2    | Enter the current 4-digit Master Code:<br>For example, Press [ 1][2 ][3 ][4 ]   |
| 3    | Press [0]   |
| 4    | Enter the new 4-digit code selected will emit a one-second confirming tone. The selected User Code is now in effect.<br>For example, press[5 ][6][7 ][ 8] |
| 5    | If successful, the keypad will emit a confirming tone “Beep —”. The selected User Code is now in effect.  |

### Setting/Changing 1-9 User Codes

At times, it may be desirable to completely delete a User Code. Note that it is impossible to delete the Master Code (although it can be changed).

| Step | Operation  |
|------|--|
| 1    | The system must be disarmed. Enter the User Functions Mode [*] and choose Codes [5]<br><b>Press [*][5]</b>   |
| 2    | Enter the current 4-digit Master Code:<br>For example, [5 ][6 ][7 ][8 ]  |
| 3    | To set/delete the User Code 1, press [1]<br>To set/delete the User Code 2, press [2]<br>To set/delete the User Code 3, press [3]<br>...<br>The other Codes can be set/deleted in the same way. |
| 4    | Enter the new User Code:<br><b>For example, [3][3][5][5]</b>   |
| 5    | If successful, the keypad will emit a confirming tone “Beep —”.<br>The selected User Code is now in effect.  |

### Deleting User's Codes

At times, it may be desirable to completely delete a User Code. Note that it is impossible to delete the Master Code (although it can be changed).

| Step | Operation  |
|------|--|
| 1    | The system must be disarmed. Enter the User Functions Mode [*] and choose Codes [5], <b>Press [*][5]</b> |
| 2    | Enter the current 4-digit Master Code: [5 ][ 6][7 ][8 ]  |

|   |  |
|---|--|
| 3 | To delete the User Code1, press <b>[1]</b><br>To delete the User Code1, press <b>[2]</b><br>To delete the User Code1, press <b>[3]</b><br>...<br>The other Codes can be deleted in the same way. |
| 4 | Enter the <b>[#]</b>   |
| 5 | If successful, the keypad will emit a one-second confirming tone. The selected User Code is now deleted.   |

## 2. Setting Date and Time

Set date: [\*]+[6]+[1]+[MASTER CODE]+[MM][DD][YY]

Month, Date and Year should all be two digits.

Set time: [\*]+[6]+[2]+[MASTER CODE]+[HH][MM]

Use a 24-Hour format. Hour and Minute should be two digits.

For example, if you want to enter 16:28, August 18, 2006, operate as :

[\*]+[6]+[1]+[MASTER CODE]+[08][18][06]

[\*]+[6]+[2]+[MASTER CODE]+[16] [28]

## 3. Displaying System Date and Time

Press [\*]+[4] to check the system time on LCD keypad. And the format should be:

MM/DD/YY Hour :Minute

## 4. Setting Follow-me Number

In case of an alarm event, a phone call can be made to one or more predefined phone number. There are three different tone types that represent burglary, fire and special emergency alarms.

The Follow-Me function can support four phone numbers for each system.

Make sure the numbers are all correct; then enter [#]. Operate as:

Set Follow-Me Phone NO.1: [\*]+[7]+[1]+[MASTER CODE]+Phone NO.1+[#]

Set Follow-Me Phone NO.2: [\*]+[7]+[2]+[MASTER CODE]+Phone NO.2+[#]

Set Follow-Me Phone NO.3: [\*]+[7]+[3]+[MASTER CODE]+Phone NO.3+[#]

Set Follow-Me Phone NO.4: [\*]+[7]+[4]+[MASTER CODE]+Phone NO.4+[#]

## 5. Quick Arming

RP208CN can be divided as interior zone and external zone by programming.

Zone 7 and Zone 8 are defaulted as interior zone.

Press [ARM], and all the zones will be armed.

Press [STAY], then external zone will all be armed while leaves the interior zones disarmed.

| Step | Operation   |
|------|---|
| 1    | Before you arm your system, all of its zones must either be secured or bypassed .The keypad's READY LED, if lit, indicates that all zones are secured. If the READY LED is not lit, one or more unsecured zone(s) will be display on the LCD. |
| 2    | Quick Arming and Code Arming: <ul style="list-style-type: none"><li>● Quick Armed: Armed the system just by press [ARM].</li><li>● Quick Stay Armed: Stay Armed just press [STAY].</li></ul>  |
| 3    | Three short Beep from the keypad when there are some errors in entering. Then re-operate it.  |
| 4    | When arming the system, there will be one confirmation sound, which means the exit delay begin now. Then leave here before the exit delay time is over to avoid false alarm. The exit delay time is defaulted as 30 seconds.                  |

## 6. Code Arming

Your RP208CN offers two methods of arming, Quick Arming and Code Arming.

It's defaulted as quick arm. If the user requires code arm, it should be set when programming in advance.

When RP208CN is set as code arm, it can not support [ARM] and [STAY] for quick arming. And it should be operated as: [ARM] + [Master Code], or [STAY] + [Master Code] to arm or stay arm.

## 7. Bell Squawk on Arming

If selected, Bell Squawk on Arming will produce a brief confirmation "chirp" from the system's external sounder(s) once the system is armed and the Exit Delay expires. To cancel it, refers to Location 30 in Chapter 5.

## 8. Disarming

RP208CN can set 10 Codes (4 digits), one Master Code and 9 User Codes. In arming status, simply enter any code of the 10 codes to disarm.

| Step | Operation  |
|------|--|
| 1    | When enter the arming zone, the keypad will “beep” one time, which means the system is in entry delay status. The entry delay time is defaulted as 30 seconds.   |
| 2    | <b>Disarming an armed system</b><br>Before the Entry Delay expires, enter the four digits of your User Code. Or it will alarm.<br>NOTE: If you make a mistake when entering your User Code, the keypad will produce three short beeps and the LCD keypad will display error. If so, press ECS and re-enter the above sequence correctly. |

### 9. On/Off Audible kiss-off

When disarm the system LCD keypad will send out a long Beep at the end of the Delay time. Press [\*]+[8]+[User's Code]+[3] to on/off the buzzer.

### 10. Duress Disarming

If you are ever coerced to disarm your system, you can comply with the intruder's wishes while sending a silent, duress alarm, to the Central Station. To do so, you must use a special Duress Code.

Which when used, will disarm the system in the regular manner, while simultaneously transmitting a silent alarm to the central station. All 10 codes (including one Master Code and 9 User Codes) can activate the Duress disarming by adding 1 to The last digit of your user codes. The Duress Code and the User code share the first 3 digits. Example:

User code =1-2-3-4; duress code is 1-2-3-5

User code =5-6-7-8; duress code is 5-6-7-9

User code= 7-8-9-0; duress code is 7-8-9-1

Note: Under no circumstances must the Duress Code be used haphazardly or without reason. Central Stations, along with Police Departments, treat Duress Codes very seriously and take immediate action.

### 11. Cutting off Sounder and Stop Auto-dialing

If outside premises, open an entry door; the keypad(s) will beep indicating that the Entry Delay period has begun. The entry delay is defaulted as 30 seconds.

### **Silencing an alarm in progress**

Observe the keypad. If any of the following conditions is evident, an alarm has occurred:

- The ARM LED is flashing
- Z1,Z2,Z3... are displayed on the LCD

It's best to enter the premises only after police or a security company has investigated and you feel confident that the burglar is no longer on your premises.

### **Disarming an armed system**

Before the Entry expires, enter the four digits of your User Code.

NOTE: If you make a mistake when entering your User Code, the keypad will produce three short beeps and the LCD keypad will display error. If so, press ECS and re-enter the Code.

## **12. Bypassing/ Un-bypassing a Zone**

When an intrusion zone is bypassed, the zone will not be armed when arming. When disarming, all the bypassed zones will be automatically un-bypassed. There are two methods of Bypassing:

**Quick Bypassing:** It's defaulted that all the zones of RP208CN can be set as Quick Bypass. Bypass a zone, simply press the corresponding key for or above 2 seconds. For example, to bypass Zone 3, press digit 3 for 2 seconds, then By Pass Z3 will be displayed on the LCD, which means Zone 3 has been bypassed successfully. Use the same way to un-bypass the bypassed zone. When Zone 3 is un-bypassed, Cancel BP Z3 will be displayed on the LCD.

**Code Bypassing:** If RP208CN was programmed as code bypassing, then press: [\*]+[1]+[Disarming Code]+[Zone No] to bypass the zone. Use the same way to un-bypass the zone.

## **13. Escape Key [ESC]**

Keypad [ESC] is suitable for correction system operation.

## **14. Emergency Keys**

RP208CN Keypad (RP208KCL) provides three emergency keys, which can be

pushed at anytime, and the police, fire department, or medical assistance is required. Emergency Alarm is defaulted as silence alarm.

- Press 1 and 2 simultaneously, and for at least two seconds, will activate a Panic Alarm.
- Press 4 and 5 simultaneously, and for at least two seconds, will activate a Fire Alarm.
- Press 7 and 8 simultaneously, and for at least two seconds, will activate a Medical Emergency.

### 15. Entry and Exit Delays

Your security system must incorporate in and from the premises without causing inadvertent alarms. A delay period was chosen during your system's installation to provide suitable time to allow for your entry and exit. Entry/Exit Delays can be set by programming, and it's defaulted as 30 seconds. To change the delay time, refer to location 11-13 of Chapter 5.

### 16. 24-Hour Zone

RP208CN can support several kinds of zones. All other forms of protection, including fire and 24-hour panic alarms (i.e. police, fire, and medical) are always ready to report alarms and do not need to be armed.

### 17. Trouble Display

When the keypad sends out three short beep regularly, indicating that the system exists some troubles. When get rid of the troubles, the system will restore to normal status and stop beeping. Troubles include Battery Low, AC power, No Clock, No Communication, No Siren etc. Press [\*]+[3] to search on the LCD. The troubles displayed as follow:

| Trouble Table | LCD              | Trouble                             |
|---------------|------------------|-------------------------------------|
|               | Battery Low      | The Backup Battery Power is low.    |
|               | AC Power         | AC Power is lost.                   |
|               | No Clock         | Clock have not been set             |
|               | No Communication | The Communication is in trouble.    |
|               | No Siren         | The Siren connection is in trouble. |

## 18. Zone Features

RP208CN has 8 programmable zones. Each zone can be programmed as Entry/Exit Delay Zone, Instant (Intrusion) Zone, Panic Zone, Fire Zone, Tamper Zone, Remote Zone etc .

**Entry/Exit Delay Zone:** A delay period was chosen during your system's installation to provide suitable time to allow for your entry and exit. Exit Delay is the max time from pressing the ARM key to exit the zone; Entry Delay is the max time from entering the zone to DISARM. If the time exceeds the max time and the detector is triggered again, then the system will alarm at once.

**Instant Intrusion Zone:** When it is triggered, the system will alarm instantly.

**Panic Zone:** Used for panic button, which is 24-Hours Zone

**Fire Zone:** Used for smoke detector and gas detector, which is 24-Hours Zone

**Tamper Zone:** Used for connecting with the tamper connector of detector, which is 24-Hours Zone

**Remote Zone:** Used for connecting with remote receiver, which is 24-Hours Zone

For user's convenience, all RP208CN zones have been defaulted as following:

- Zone 1: Entry/Exit Delay Zone;
- Zone 2: Instant (Intrusion) Zone;
- Zone 3: Instant (Intrusion) Zone;
- Zone 4: Panic Zone;
- Zone 5: Fire Zone;
- Zone 6: Tamper Zone;
- Zone 7: Interior Zone;
- Zone 8: Interior Zone;

## 19. Get Events from Event Logger

You can retrieve events located in the event Logger memory from LCD keypad (up To 50 events) , including arm, disarm, alarm etc. Events are presented from the Last entered to the first Registered. The affairs serial number use for 2 data (01-50).

- Press : [\*]+[9]+[MASTER CODE]+[EVENT No.]

The keypad display format:

- [MM][DD][HH][MM][2 affairs code][Zone No. or User No.]

The affairs type is as follows:

- 11—Zone Alarmed
- 10—Zone Restore
- 21—Keypad Panic Alarm
- 22—Keypad Fire Alarm
- 23—Keypad Medical Emergency
- 51—User Arm
- 50—User Disarm
- 53—Auto Arm

Zone No. or User No.: When the event is alarm or restoration, the last digit of the event shows the Zone No; When the event is disarm or arm, the last digit of the event shows the User No.

## **20. On/Off Door Chime**

Assigned to an opening which, when violated during the disarmed, will cause the system's keypad(s) to beep once during an alarm, the external sounding device will annunciate continuously, without interruption. When alarm occurs during armed system only the external sounder will be activated. Enter [\*]+[8]+[Master Code]+[2] to turn on/ off the door chime.

## CHAPTER 3 - INSTALLATION

The Series of Control Panel Which is Designed and Produced by ROISCOK Integrate Perfect Function and Advanced Technology. ROISCOK's Control Panels Use the Separated Control Keypads and Has Strong Ability to Prevent Destroy. All Zones Are Programmable, Have Built-in Digital Communicator, Flexible Connecting to Alarm Centre, Compatible to All Popular Communication Format, Attached Duress Code, Consecutive Output. With Easier Programming and More Elegant Shape, Everywhere Shows the Products' Luxury.

The **RP208CN** are intended to address the needs of many homes, offices, and small businesses. Its operation is designed around microprocessor and EEPROM (Electrically Erasable Programmable Read-Only Memory) technology, which stores, without the need for a source of power, the system's operating program and its programmable parameters.

System programming may be performed from one or more LCD keypad(s) designed specifically for that.

### Before Installation

You shall read the all the subjects in manual deeply before installation to avoid unnecessary damage to the products.

Please use the tool correctly, you should install the system first, then power the systems.

Please make sure the systems are not powered when you handle the connection. Otherwise this can make the system self-protection, the components burning or other problems!

The 2.2k $\Omega$  resistors which dispensed with the systems should connect with the nearest location of the detector.

### FAQ. of Installation and Solution

The RP208CN has self-protection system and self-check function. The Keypad will make a sound to prompt the user to check up and Correction when

systems are installed or set in error.

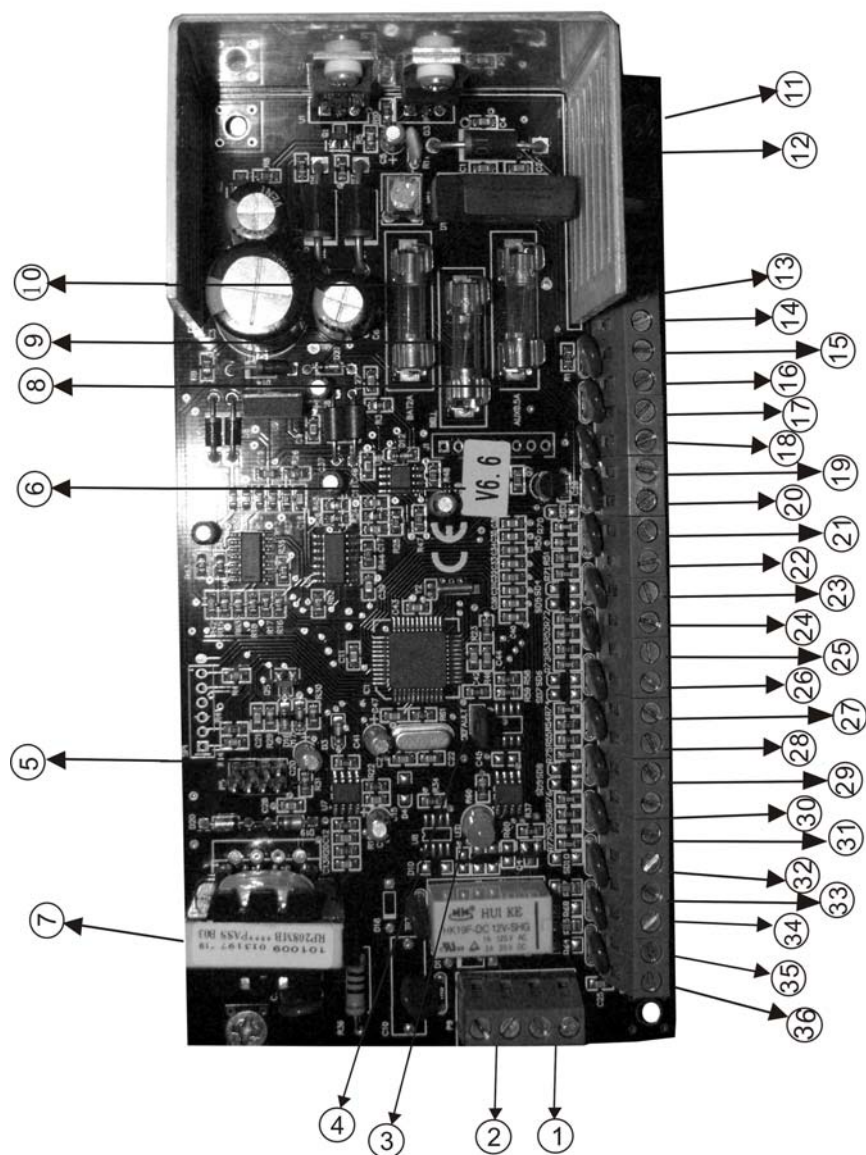
1. Please check if the tamper button on the back of the keypad installed in the correct and under working conditions when keypad emit the continuous "beep-" after system installation is complete and be powered.
2. Please review the chapter 2 No.17 Trouble Display, when keypad notified a rhythmic "beep, beep, beep". In that case may including the following situation: battery power shortages, AC power off, no set clock (time and date), the phone lines for communications or the line for alarm has a fault.
3. Keypad will emit three sound " beep, beep, beep" when input the wrong operation.
4. Please check whether the connect between the port "ALARM" on the detector and control panel is connected firm and connected the 2.2k ohm resistor correctly when the Siren alarmed under armed state.
5. Please check whether the shell of detectors is installed correctly , the tamper switch of detector is ready, The connect between the port "TAMPER" on detector and control panel is connected firm and connected the 2.2k ohm resistor correctly when the Siren alarmed under disarmed state.
6. Under disarmed state, when the keypad display "Z1 NOT READY ", it means the zone 1 is not ready

#### **The Main Board**

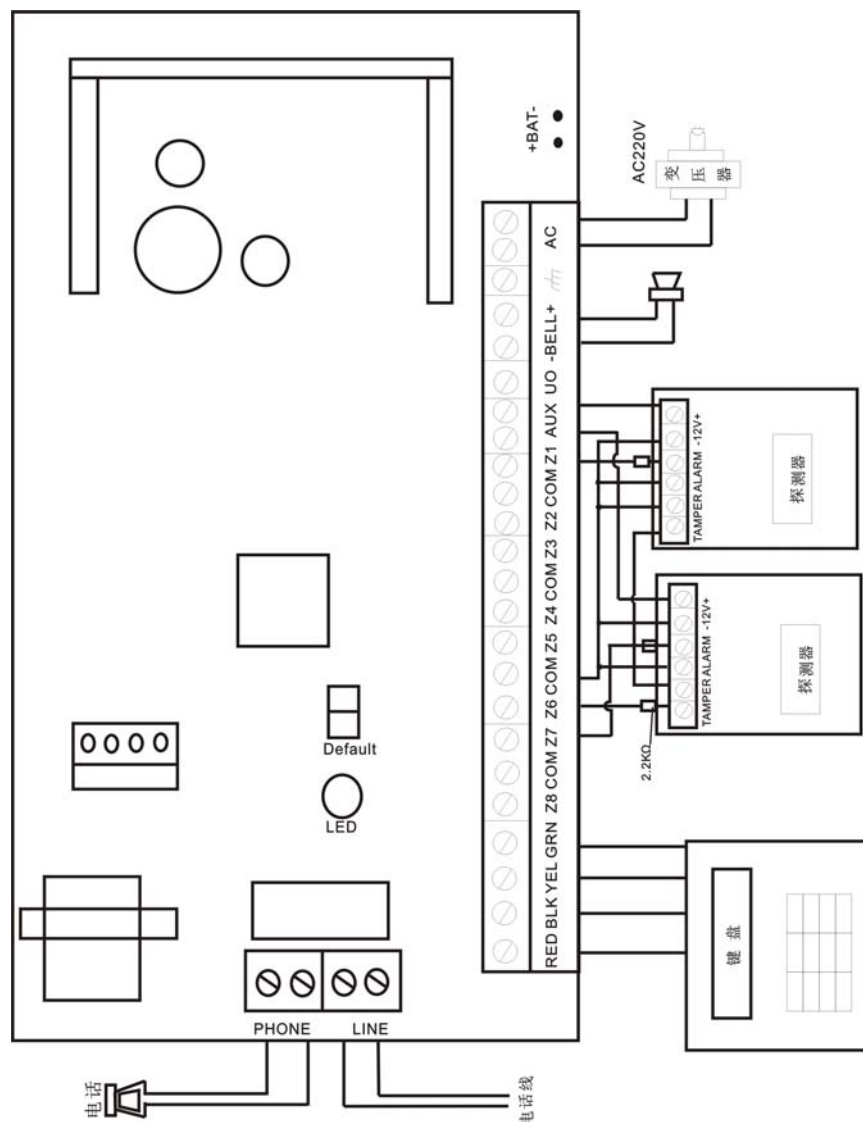
As Figure 2, the function of connection port as following:

- 1—the port "LINE" for telephone line
- 2—the port "PHONE" for telephone set
- 3—Dialing LED Indicator
- 4—the jumper "DEFAULT" for restore factory defaults
- 5—the connector for the voice module
- 6—the type and version number
- 7—eligible label and production serial number
- 8— "AUX" safety for assistant power, 0.5A
- 9— "BELL" safety for siren power, 1A
- 10—"BAT" safety for standby power, 2A
- 11—"BAT-" the cathode of the standby power

- 12—"BAT+" the anode of the standby power
- 13/14—"AC" low-tension entry port for AC power (AC16.5V)
- 15—the port for ground
- 16—"BELL+" connect to the anode of detector
- 17—"BELL-" connect to cathode of detector
- 18—"UO" Utility Outputs
- 19/20—"AUX" connect to the anode of detector(s) "DC12V+"
- 22/25/28/31—"COM" the communal port. In general, the port "COM" should connect to of the anode of detector(S) "DC12V-" and one port of the "ALARM" and "TAMPER"
- 21—"Z1" the port for zone 1, defaults as Entry/Exit Delay Zone. Connect to one port of "ALARM" on the detector.
- 23/24—"Z2" for zone 2 and "Z3" for zone 3. Defaults as Instant (Intrusion) Zone.
- 26—"Z4" the port for zone 4 defaults as Panic Zone. Suit for connect with a panic button
- 27—"Z5" the port for zone 5 defaults as fire zone. Suit for connect with a Gas Detector or a Smoke Detector.
- 29—"Z6" the port for zone 6 defaults as tamper zone. The user should connect it with one of the port "TAMPER" on detector.
- 30/32—"Z7" the port for zone 7 and "Z8" zone 8, both of them are default ed as Interior Zone. When arm by [STAY], the Interior Zone won't be armed.
- 33—"GRN" the port should connect to the green line on the keypad.
- 34—"YRL" the port should connect to the yellow line on the keypad.
- 35—"BLK" the port should connect to the black line on the keypad.
- 36—"RED" the port should connect to the red line on the keypad.



**Fig.2 RP208MB**



**Fig.3 Connection Instruction**

### **Install Control Panel and Keypad**

The RP208CN control panel should install in the aridity, near by AC power supply which can't be power off and connect the ground well and be easy to connect the phone line. Use correct tool, avoiding the damage toward the equipments.

The keypad is generally installed in the open side of the entry, the height should be easy to user. The Tamper Button on the back cover of the keypad can prevent the keypad from being broken or tore down, turn on it and press it tightly to the wall while installing.

Please connect the 4 lines of the keypad with the main board respectively according to the red, black, yellow and green sequence. Such as Fig.3 shows.

### **Connect the Telephone Line**

There are two twin ports of telephone lines on the mainboard. The ports which mark LINE used for input, PHONE for telephone. Such as Fig.3 shows.

### **Connect the Standby Battery**

Please provide a standby battery (DC12V) inside to panel in case of the AC power is cut off.

Two lines marked BAT link the battery with anode+ (red) and the cathode -(black) respectively. Such as Fig.3 shows.

Don't conjunction any power before connected all the lines well.

### **Connect Transformer**

The output of transformer should be AC16.5V, connecting into the AC two ports on the mainboard. When AC power is different, please carefully choose a right transformer to be applicable to AC220V or perhaps AC110V. Remember: The red lines for the high -voltage, do not mix with blue which is the low-voltage.

Don't power the system before the installation finished well.

### **Connect Siren**

The port BELL is used for connect siren. Please watch for cathode and anode when connecting.

### **Connect Detector(s)**

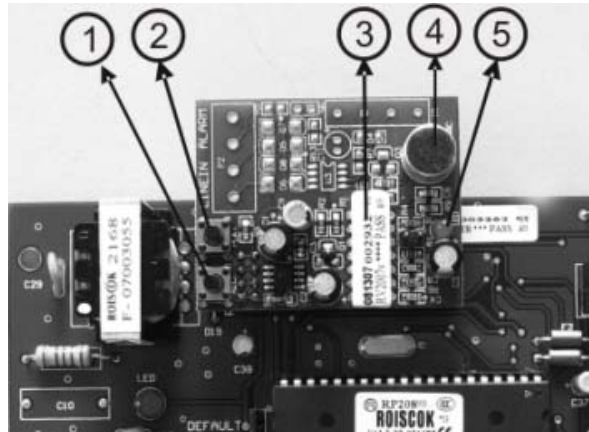
As the Fig.3 shows, the wiring work must be done without power.

1. Used and unused zone should connect with 2.2k  $\Omega$  termination resistors. When connecting detector, please install termination resistors in the detector, to ensure the system of self-protection function.
2. The two ports of ALARM, one for COM port and another for alarm zone ports respectively on the mainboard.
3. TAMPER ports of detector, connected to tamper zone and COM. When there are many detectors, TAMPER port in series to access tamper zone and COM port.
4. "+ DC12V -" in the detector connect AUX and COM respectively. Do not mix anode and cathode.
5. Please connect the port of UO when need.

### **Connect Voice Module**

As Fig.4, connecting voice module just need to insert it into the connector on the control panel.

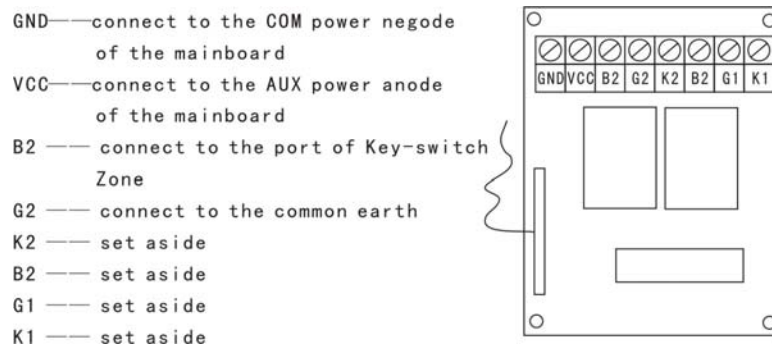
- 1(record)—recording button
- 2(play)-test record button
- 3 — the eligible label including production serial number, tester number, production type and version number.
- 4—recording microphone



**Fig.4 Voice Module**

#### Connect Remote Receiver

When arm or disarm by a remote controller, please programming a zone as switch lock zone. And connect the remote receiver as following:



**Fig.5 Remote Receiver**

#### Connect Wireless Module

The function and the port of RP208EW4 expansion wireless module:

|   |                  |    |                               |
|---|------------------|----|-------------------------------|
| 1 | 12VDC Power      | 11 | Zone-1 Indicating Light       |
| 2 | Set Aside        | 12 | Zone-2 Indicating Light       |
| 3 | Remote Armed     | 13 | Zone-3 Indicating Light       |
| 4 | Set Aside        | 14 | Zone-4 Indicating Light       |
| 5 | Trouble Output   | 15 | Receive Data Indicating Light |
| 6 | Zone 1 Connector | 16 | Interfered                    |
| 7 | Zone 2 Connector | 17 | Setting Indicating Light      |

|    |                  |    |                             |
|----|------------------|----|-----------------------------|
| 8  | Zone 3 Connector | 18 | Trouble Indicating Light(1) |
| 9  | Zone 4 Connector | 19 | Trouble Indicating Light(2) |
| 10 | Dial Switch      | 20 | Touch Switch                |
|    |                  | 21 | Antenna Connector           |

1. 6-9 are corresponding 1-4 receiver's channels, should be connected 4 of the zones on RP208MB
2. The port +12v should connect to AUX on control panel, the GND port to the COM.
3. When using remote controller, the port 3 should connect switch lock zone of RP208CN
4. In normal, the dial 1 and 2 on the dial switch 10 should be set at the position ON.

Please refer to RP208EW4 User's Manual for more details.

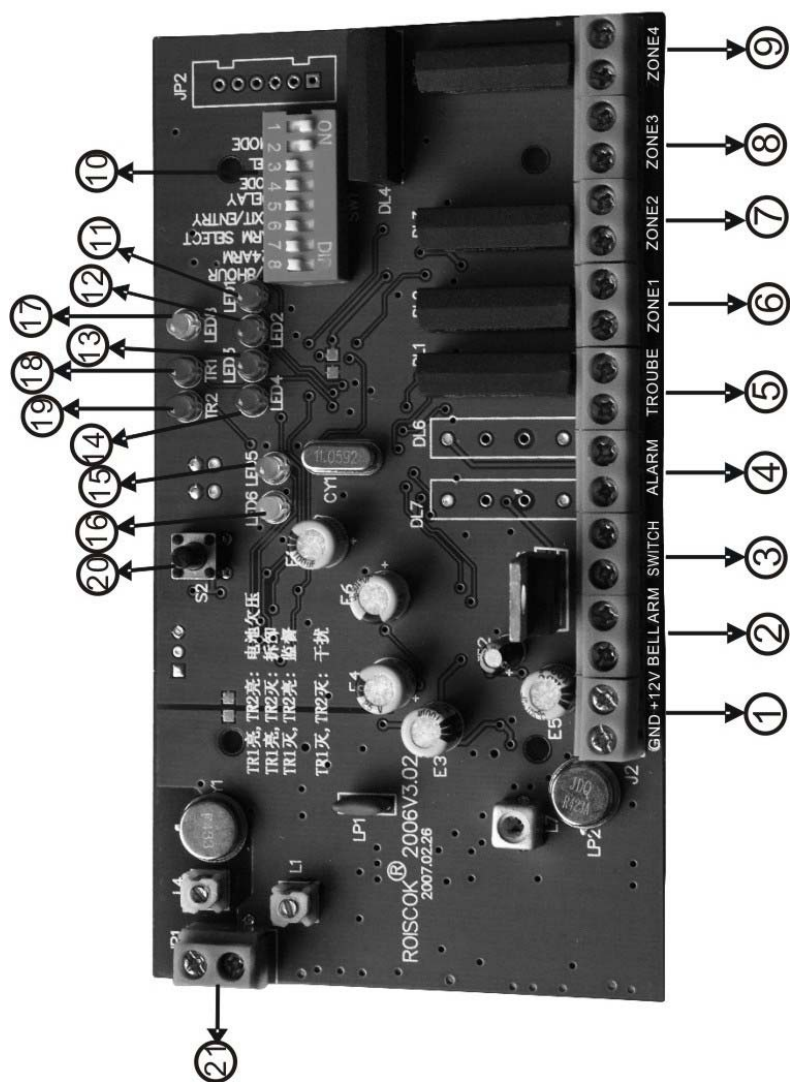


Fig.6 The Wireless Receiver

## CHAPTER 4 - FUNCTION AND TECHNICAL DATA

You can communicate your RP208CN (8 zones control pane) through LCD Keypads (RP208KCL). Each RP208CN can match with 4 LCD keypads at most. With the LCD Keypad(s), you can operate your system by arm/disarm, bypass, emergency, closing the siren, inspecting trouble, programming the system and so on. The system status can be displayed by the LCD or/and indicator light.

All of your system's detectors are wired to the control panel. As such, your system always knows the status of any protected door, window, hallway, room, or area.

The main board of RP208CN is RP208MB.

The main features of RP208CN include the RP208KCL and RP208MB.

### Main Features Of RP208KCL

- LCD can display the functions of system
- 3 Keypad Emergency Zones: Panic[1]+[2], Fire[4]+[5], Medical[7]+[8]
- Key-press with Audible Feedback
- LCD Backlight
- System Status Display
- LED Indication: Alarm, Power, Armed, Bypass, Ready, Tamper
- Tamper is Supervised
- Disarm by Code
- Disarm by Remote Controller
- Disarm By Duress Code
- LCD Display Bypassing and Not-ready Zones
- Quick Arm
- Quick Arm by Code
- Quick Stay Arm
- Stay Arm by Code
- Bypass zone quickly
- Bypass zone by Code

## **Main Features of RP208MB**

### **Zones**

- 8 programmable zones on Main Board
- Special zones: Zone 5 - Fire Zone (default)  
Zone 6 -tamper Zone (default)
- 11 types of Programmable Zones, 7 types of Voice Formats
- Zone Terminal: NC, NO, Single End with Resistor 2.2KΩ
- End Calling Function
- Disarm/Arm Report can be set

### **Siren Driver**

- Built-in Siren Driver(750mA)

### **Clock**

- Built-in Digital Clock

### **Siren Voice Output**

- Siren Voice type is Programmable. Current output: 750mA(max)

### **Built-in Digital Communicator**

- Attached Digital Communicator, Compatible with Contact ID, 4+2
- 4 Follow-me Phone Numbers
- 2 Central Station Numbers

### **Code**

- 1 Installation Code
- 1 Master Code, this Code Can Create Duress Code Automatically
- 9 User Codes, Each Code Can Create Duress Code Automatically

### **Periodic Test**

- Offer Testing Report to Alarm Center Automatically Every Day

### **Peripheral Equipment**

- Voice module
- Remote Control, Using for Disarm/Arm and Emergency
- Wireless Receiver

#### **Events Record**

- 50 Events Record can be saved

#### **Timing Function**

- Auto Daily Arm
- Auto Daily Test report
- Windows Disarm/Arm Report

#### **Monitor Function**

- Trouble Data can be Displayed on Keypad, and Also can be Transmitted to Central Station
- Battery in Low Power
- Siren Circuit in Trouble
- AC Supply in Trouble
- System Clock is Not Set
- Tamper Prevention
- Fire Alarm Circuit Trouble

#### **UO Port**

- UO port can be activated when the system is Alarm, Arm or Disarm. (Welcome check the location 22 in Chapter 5 for details)

#### **Charging of Standby Battery**

- Main Board attaches charging circuit, the Standby Battery can be charged via BAT port

### **TECHNICAL DATA**

#### **Main Board**

|             |                              |
|-------------|------------------------------|
| Input power | 16.5VAC 25VA via transformer |
|-------------|------------------------------|

|                       |  |
|-----------------------|--|
| Back-up Battery       | DC12V 4Ah, or DC12V 7Ah                  |
| Auxiliary Power       | 12VDC 400mA maximum                      |
| Siren port output     | 12VDC 750mA maximum                      |
| Programmable output   | Open collector Active pull down 70mA max |
| Switch zone output    | 250mA                                    |
| Circuit Response Time | 500mS                                    |
| Fuse AUX              | Auxiliary Power 0.5A                     |
| Fuse BELL             | Bell/LS Power 1A                         |
| Fuse BAT              | Battery Power 2A                         |
| Dimension/weight      | 80*167mm/0.17kg                          |

#### Keypads

|                           | LCD Keypad                    |
|---------------------------|-------------------------------|
| Current consumption       | 90mA typical, 130mA max       |
| Control panel connections | 4-wire up to 1000M from panel |
| Dimensions                | 110*130*25mm                  |
| Weight                    | 0.23kg                        |

## CHAPTER 5 – PROGRAMMING DIRECTION

### Restoring Factory Defaults

Recover the default of the control panel before program:

1. Connect the keypad and the control panel
2. Check if the line have linked correctly on all the other port
3. Turn off all the power
4. Short circuit the default of the main board of the control panel(reference the pic2 in page 19)
5. Reconnect the power(AC or the standby battery)
6. When you hear a brief sound "beep—", cut J1. At this moment, the default has been recovered already.
7. Please check the signal light, when you in program mode, the light of READY is flicker, at this time, you can program.

### Program Explain

First confirm the Default jumper is off. Keep in disconnection when programming. Programming is a process of altering or setting the location data of the control panel, RP208CN has 94 locations 01-94 for setting data, and each data will correspond to a different function of the control panel. The location are made up of 2 digital, the data of location are made up of 1 digital, 2 digital or many digital. RP208CN has the advantage of agility and compact in programming, user only have to alter or set part or all the data of location. Not all location need to be set, and most of the location can only use the default data.

Connect the mainboard and the control panel, use the RP208KCL keypad to program when the power is on.

### Check Location Data

Check location data need in the state of program mode. LCD display the relative information after enter to the location which need to be checked, but the Code won't display.

## ENTRY/EXIT Program

According to the operation as below, you can enter into or exit the program state, check location data, change the location data and so on

1. Enter into program mode: pres [#]+[master code]
2. Enter into the appointed location: [enter 2 digital location No.]+[ARM]. At this time, the LCD will display the data of this location, but the Code will not display
3. Enter into the next location: press [ARM]
4. Change location data: change the location data, press [#] to affirm. The keypad will make a long sound "beep—" to show operating right, "beep, beep, beep" short sound show operating wrong.
5. Exit programming mode: input the master code +[ARM]

## A Programming Tutorial

To get acquainted with some programming basics, a short tutorial has been prepared. It involves changing the Installer Code from the factory default of 0-2-0-6 to a sequence of you own choosing. If you can master this operation, subsequent programming should be easy.

|   | Operation  | Action   | Comments  |
|---|--|--|---|
| 1 | Enter the Programming Mode   | Enter the factory default Installer Code : [#][0206] | A long beep will sound, confirming successful entry into Installer Programming. LCD display "ADD:"  |
| 2 | Access the Installer Code(stored in Location"08")                    | Press[0][8][ARM]                                     | No confirming beep  |
| 3 | Enter a unique Installer Code (for this tutorial, we'll use 5-6-7-8) | Enter[5][6][7][8]                                    | No confirming beep  |
| 4 | Store the data you have entered                                      | Press[#]   | A long beep will sound confirming that data has been properly stored if a wrong number of digits entered three (error) beep will sound after pressing [#] |
| 5 | Check the data stored in Location"08"                                | The data display on the LCD                          | [5678]  |

|   |                                       |  |  |
|---|---------------------------------------|--|--|
| 6 | Go to another location of your choice | Press the desired two-digit location and [ARM] | Press[ARM] along to go to the next sequential location |
| 7 | Exit programming                      | Enter your Installer Code and press [ARM]      | A long beep will confirm your actions                  |

#### Data In the Location

#### General System Parameters: Locations 00-07

|              |             |             |
|--------------|-------------|-------------|
| Location: 01 | Preparation | Default: 00 |
|--------------|-------------|-------------|

|                      |  |
|----------------------|--|
| Location: 02         | the First Central Station phone number |
| <input type="text"/> | <input type="text"/>                   |

**Explain:** To input or alter the phone number is required to enter the location and input all digits include the area code. When done with your complete input, press [#] to store it. Up to 20 digits can be entered to the location. To delete an existing phone number, just press the Key [#].

To delete an existing phone number, simple press the [#] key; to enter or replace the phone number required to reach the primary Central Station include all access digits (e.g. 0 to 9) and the area code. When done with your complete entry, press [#] to store it. Up to 20 digits can be entered to the phone number. For your records, enter the complete phone number above. If required, include the following special functions to achieve the effect listed in the table:

|                      |   |
|----------------------|---|
| Location: 03         | the Second Central Station phone number |
| <input type="text"/> | <input type="text"/>                    |

Same as in Location 02

|              |             |
|--------------|-------------|
| Location: 04 | Preparation |
|--------------|-------------|

|              |            |               |
|--------------|------------|---------------|
| Location: 05 | User's No. | Default: 0000 |
|--------------|------------|---------------|

PURPOSE: to assign the system's Central Station Account Number.

Hexadecimal account numbers (those using 0 through 9 and A through F) are accepted by RP208CN. Use the key combinations below to enter hexadecimal digits "A" through "F"

|           |       |           |       |          |
|-----------|-------|-----------|-------|----------|
| Hex digit | Press | Hex digit | Press | Acct No. |
|-----------|-------|-----------|-------|----------|

|   |           |   |           |  |  |  |  |
|---|-----------|---|-----------|--|--|--|--|
| A | [STAY], 1 | D | [STAY], 4 |  |  |  |  |
| B | [STAY], 2 | E | [STAY], 5 |  |  |  |  |
| C | [STAY], 3 | F | [STAY], 6 |  |  |  |  |

"0" will not send a digit to the central station, to send "0" use "A" digit

|                     |                    |
|---------------------|--------------------|
| <b>Location: 06</b> | <b>Preparation</b> |
|---------------------|--------------------|

|                     |                    |
|---------------------|--------------------|
| <b>Location: 07</b> | <b>Preparation</b> |
|---------------------|--------------------|

#### Installer Code: Location 08-10

|                     |                         |  |  |  |  |                      |
|---------------------|-------------------------|--|--|--|--|----------------------|
| <b>Location: 08</b> | <b>Installer Code I</b> |  |  |  |  | <b>Default: 0206</b> |
|---------------------|-------------------------|--|--|--|--|----------------------|

The installer code used by installer authorized to modify the system's parameters. It is recommended to change the "factory default" Installer Code to one of your own choice. It is made up by 4 digits. **Default: 0206**

|                     |                          |  |  |  |  |                      |
|---------------------|--------------------------|--|--|--|--|----------------------|
| <b>Location: 09</b> | <b>Installer Code II</b> |  |  |  |  | <b>Default: 1206</b> |
|---------------------|--------------------------|--|--|--|--|----------------------|

**Same as the** Installer Code 1, but with a few limitations: It can't modify the "default code", observe and modify the first installer's codes, modify any phone number, nor observe & modify MS lock code.

|                     |                    |  |  |  |  |                      |
|---------------------|--------------------|--|--|--|--|----------------------|
| <b>Location: 10</b> | <b>Master Code</b> |  |  |  |  | <b>Default: 1234</b> |
|---------------------|--------------------|--|--|--|--|----------------------|

**PUPROSE:** to establish the keypad code for the system's "chief user"; the Master Code provides the following special privilege:

1. Alter the master code and users' code
2. Setting the clock;
3. Checking the trouble and the events record or other operation
4. System testing;
5. Set follow-me phone number

**Note:** the Master Code cannot be seen by the installer through the keypad.

#### System Time: Locations 11-13

|                     |                   |                     |
|---------------------|-------------------|---------------------|
| <b>Location: 11</b> | <b>Exit Delay</b> | <b>Default: 030</b> |
|---------------------|-------------------|---------------------|

Location 11 is used to set the time of exit delay, which unit is second. The time of delay is made up of 3 digits, 1 second at least, 255 second at most. For example, 030 means the delay time is 30 seconds. When arm, it won't alarm to leave the

locale in the time of exit delay.

|                     |                    |                     |
|---------------------|--------------------|---------------------|
| <b>Location: 12</b> | <b>Entry Delay</b> | <b>Default: 030</b> |
|---------------------|--------------------|---------------------|

Location 12 is used to set the time of enter delay between 001 and 255. For example, 030 means the delay time is 30 seconds. When enter into the locale, it won't alarm to disarm in the time of enter delay.

|                     |                         |                    |
|---------------------|-------------------------|--------------------|
| <b>Location: 13</b> | <b>Bell cutoff Time</b> | <b>Default: 03</b> |
|---------------------|-------------------------|--------------------|

Location 13 is used to set auto alarm time of the External Sounder, before it shuts down automatically. Enter the number of minutes between 01 and 90

#### **Intrusion Zone Types and Zone Sounds: Locations 14-21**

Locations 14 through 21 are identical and are corresponding to Zone 1 through 8 respectively. Each of these locations contains two digits. The first digit is used to set the type of the zone, the second digit is used to set the type of the sound. Attention: Each zone must be connected to an EOL 2.2K $\Omega$  resistance when installing, even if the zone not in used.

| <b>1<sup>st</sup>Digit</b> | <b>Zone Type and comment of Zone 1-8</b>  |
|----------------------------|---|
| <b>0</b>                   | <b>Not Used</b><br>All unused zones should be given this designation. It is also used to disable a zone   |
| <b>1</b>                   | <b>Enter/Exit Delay</b><br>If violated, a zone with this designation will not cause an intrusion alarm during the Entry and Exit Delay periods.   |
| <b>2</b>                   | <b>Instant(Intrusion)</b><br>Causes an immediate intrusion alarm if violated when the system is in arm state.   |
| <b>3</b>                   | <b>Entry Follower</b><br>A zone(s) given this designation will cause an immediate intrusion alarm when violated unless an Entry/Exit zone was violated first if so, an Entry Follower zone(s) will remain bypassed until the end of the Entry Delay period. |
| <b>4</b>                   | <b>Interior + Entry Delay Follower</b><br>If the system is armed to AWAY (ARM) mode: this type of zone behaves like the Entry Follower, described above If the system is armed to the STAY mode: this type of zone will be bypassed.                        |

|   |  |
|---|--|
| 5 | <b>Fire Zone</b><br>Intended for smoke or other types of fire detectors. If violation, will cause an immediate fire alarm, regardless of the system's armed/disarmed state.<br>Suggest Zone 5 can be programmed as a fire zone. A fault in the wiring of any fire zone, if supervised, will cause a fire alarm, manifested by a rapid flashing of the keypad's Fire LED. |
| 6 | <b>Tamper Zone</b><br>If violation, will cause an immediate tamper alarm, regardless of the system's armed/disarmed state. Suggest Zone 6 on RP208CN to be a Tamper Zone.  |
| 7 | <b>Panic Zone</b><br>If violated an immediate panic alarm will be announced , regardless of the system's armed /disarmed state.  |
| 8 | <b>Key-switch Zone-Instant</b><br>If desired for system arming and disarming an external SPST spring-loaded, normally open, momentary type key switch can be added. The key switch permits an instant disarming of the system after tripping. And when arming the system an exit delay will follow.  |

| 2 <sup>nd</sup> Digit | Zone sound and comments of Zone 1-8  |
|-----------------------|--|
| 0                     | <b>Silent</b><br>A violation during the armed period will produce no sound. The resulting alarm can still be reported to the Central Station   |
| 1<br>(default )       | <b>External sounder (continuous)</b><br>Cause the external sounding device to annunciate steadily, without breaks in the sound cadence the sound will continue until the sounder "times out" or the system is disarmed                 |
| 2                     | <b>External sounder (pulses)</b><br>Cause the external sounding device to produce a pulsed (of staggered) annunciation this sound is usually recommended for fire alarm annunciation.  |
| 3                     | <b>Keypad sounder Only</b><br>Cause the piezo sounder within the system's keypad(s) (only) to beep rapidly   |
| 4                     | <b>External sounder +Keypad Sounder</b><br>Causes the external sounding device to annunciate continuously, without breaks in the sound cadence causes the piezo sounder within the system's keypad(s) to beep rapidly                  |
| 5                     | <b>External Sounder When Armed/keypad Sounder When Disarmed</b><br>Related to 24H Zones.<br>When alarm during disarm, the keypad's buzzer will be activated<br>When alarm during armed system, the external sounder will be activated. |

|   |   |
|---|---|
| 6 | <b>Door Chime</b><br>Assigned to an opening which, when violated during the disarmed, will cause the system's keypad(s) to beep once during an alarm, the external sounding device will annunciate continuously, without interruption. When alarm occurs during armed system only the external sounder will be activated. |
|---|---|

For example: if the zone 1 need to set to be entry/exit delay zone, and need the exterior alarm intermittent sound at the same time keypad buzzer sound when need to alarm, then input 14 in location 14. If the 3 zone need to set to be active zone, and need the exterior alarm intermittent alarm, then input 32 in locate 16. The zone characteristic of default:

- Zone 1: Entry/Exit Delay Zone; zone type is 11
- Zone 2: Instant (Intrusion) Zone; zone type is 21
- Zone 3: Instant (Intrusion) Zone; zone type is 21
- Zone 4: Panic Zone; zone type is 70
- Zone 5: Fire Zone; zone type is 52
- Zone 6: Tamper Zone; zone type is 61
- Zone 7: Interior Zone; zone type is 41
- Zone 8: Interior Zone; zone type is 41

#### Special Zones Suggestion:

- a. Zone 5 is reserved as a Fire Zone, Supports Smoke Detectors and/or Gas Detectors. A fire zone cannot be disabled or bypassed. For fire zone the recommended (default) zone sound is "External sounder pulsed". However it is possible to change the zone sound and type to any of the ones provided in the previous list.
- b. Urgency zone alarm doesn't result the siren sound but calling to the CMS or follow-me numbers.
- c. Zone 6 on the RP208CN is reserved as a Tamper Zone. This zone can be programmed to any zone type. If the zone was programmed as Tamper, in violation, a Tamper Code report will be sent and the Tamper LED on the keypad will light up.

#### Utility Outputs- Event and Result: Locations22, Default 00

The RP208CN supports one open collector Utility Output (derived between the

UO/ECL and AUX terminals) which can be used for switching an external device on or off. Once the Utility Output is activated the device will be connected between AUX (+12V) and ground (0V). This connection is capable of switching light loads of no more than 70mA.

When input different data in locate 22, UO will active in different way.

| Digit                   | Event and Result   |
|-------------------------|--|
| <b>00<br/>(default)</b> | <b>Not Active</b><br>UO offers no response to any system activity UO   |
| <b>01</b>               | <b>preparation</b>   |
| <b>02</b>               | <b>Arm Follow (Latch)</b><br>UO is activated when the system is armed. The activation occurs after the expiration of the exit/delay period. The UO remains active (latched) while the system is armed. When disarming the system the UO deactivates (Unlatches).   |
| <b>03</b>               | <b>Arm Follow (Pulse)</b><br>UO is activated when the system is armed .The activation occurs after the expiration of the exit/delay period. The UO is activated for several seconds (pulse), after which is deactivated.   |
| <b>04</b>               | <b>Alarm Follow (Latched)</b><br>UO is immediately activated when the system goes into any type of alarm (i.e. intrusion, fire, keypad-initiated panic) UO remains active (latched) for the duration of the alarm-even after the system's sounder "times out" UO is deactivated when the system is disarmed. |
| <b>05</b>               | <b>Alarm Follow (Pulse)</b><br>UO is immediately activated of several seconds and then deactivated whenever the system goes into any type of alarm (i.e. intrusion, fire, keypad-initiated panic)  |
| <b>06</b>               | <b>Panic Follow (Latched)</b><br>UO is activated immediately when a PANIC alarm is triggered by a violation of a zone, defined as Panic, or by pressing the keypad's [1] and [2] keys simultaneously for two seconds. UO is deactivated when the system is disarmed.   |
| <b>07</b>               | <b>Panic Follow (Pulse)</b><br>UO is activated for several seconds when a PANIC alarm is triggered by a violation of a zone, defined as Panic, or by pressing the keypad's [1] and [2] keys simultaneously for two seconds.  |
| <b>08</b>               | <b>Fire Keying Follow (Latched)</b><br>UO is activated immediately when a Fire alarm is triggered by a violation of zone 5, defined as Fire, or by pressing the keypad's [4] and [5] keys simultaneously for two seconds, UO is deactivated when the system is disarmed.                                     |
| <b>09</b>               | <b>Fire Keying Follow (Pulse)</b><br>UO is activated when a Fire alarm is triggered by violation of zone 5, defined as Fire, Or by pressing the keypad's [4] and [5]   |

|           |  |
|-----------|--|
|           | keypad's simultaneously for two seconds.   |
| <b>10</b> | <b>Special Emergency Keying Follow (Latched)</b><br>UO is activated immediately when pressing the keypad's [7] and [8] keys simultaneously for two seconds. UO is deactivated when the system is disarmed.   |
| <b>11</b> | <b>Special Emergency Keying Follow (Pulsed)</b><br>UO is activated for several seconds when pressing the keypad's [7] and [8] keys simultaneously for two seconds.   |
| <b>12</b> | <b>Duress Code Follow(Pulse)</b><br>UO is activated for several seconds (and then deactivates) when any duress code is entered.  |
| <b>13</b> | <b>Duress Code Follow (Latched)</b><br>UO is activated when any duress code is entered.  |
| <b>14</b> | <b>AC Loss Follow (Latched)</b><br>UO is activated due to a lack of power from the commercial AC. UO is deactivated when the system is operating properly from commercial (AC) power.  |
| <b>15</b> | <b>AC Loss Follow (Pulse) AC</b><br>UO is activated for several seconds (and then deactivates) due to a lack of power from the commercial AC.  |
| <b>16</b> | <b>Low Battery Follow (Latched)</b><br>UO is activated due to low power from the backup battery. UO1 is deactivated when the battery is in good condition.   |
| <b>17</b> | <b>Low Battery Follow (Pulse)</b><br>UO is activated for several seconds due to low power from the backup battery.   |
| <b>18</b> | <b>Zone 1 Alarm Follow (Latched)</b><br>UO is immediately activated when an alarm occurs on Zone 1. UO remains active (latched) for the duration of the alarm-even after the system sounder "times out". UO is deactivated when Zone 1 goes into normal condition. |
| <b>19</b> | <b>Zone 1 Alarm Follow(Pulse)</b><br>UO is immediately activated for several seconds (pulse) and then deactivates whenever Zone 1 goes into alarm.   |
| <b>20</b> | <b>Zone 2 Alarm Follow(Latched)</b>  |
| <b>21</b> | <b>Zone 2 Alarm Follow(Pulse)</b>  |
| <b>22</b> | <b>Zone 3 Alarm Follow(Latched)</b>  |
| <b>23</b> | <b>Zone 3 Alarm Follow(Pulse)</b>  |
| <b>24</b> | <b>Zone 4 Alarm Follow(Latched)</b>  |
| <b>25</b> | <b>Zone 4 Alarm Follow(Pulse)</b>  |
| <b>26</b> | <b>Zone 5 Alarm Follow(Latched)</b>  |
| <b>27</b> | <b>Zone 5 Alarm Follow(Pulse)</b>  |
| <b>28</b> | <b>Zone 6 Alarm Follow(Latched)</b>  |
| <b>29</b> | <b>Zone 6 Alarm Follow(Pulse)</b>  |
| <b>30</b> | <b>Zone 7 Alarm Follow(Latched)</b>  |
| <b>31</b> | <b>Zone 7 Alarm Follow(Pulse)</b>  |
| <b>32</b> | <b>Zone 8 Alarm Follow(Latched)</b>  |

### Communication Parameters: Locations 26-29

Locations 26 and 27 allow you to define the manner in which the RP208CN communicates with the Central Station when it reports alarms, Restores, troubles, openings/closings, and tests.

### Digital Communicator Controls: Locations 26, Default 41

- First digit: determines the number (or hexadecimal digit) corresponding to the Dialing Method/Duty Cycle /Redial Time desired
- Second digit: determines the number corresponding to the Attempts /Answering Machine Use /UL Installation
- Attempts: Attempts sets the Number of times the control panel will redial the Central Station after failing to establish a successful communication,
- Voice Module: If enabled ("YES") voice messages will be sent. If "NO" then tones will be used to represent an active alarm.

| Location: 26 | Dialer Controls:(1 <sup>st</sup> Digit) |            |                        |
|--------------|---|------------|------------------------|
| 1Digit       | Dialing Method                          | Duty Cycle | Redial Central Station |
| 1            | Pulse @20 pps                           | 67/33      | After 30 seconds       |
| 2            | Pulse @10 pps                           | 67/33      | After 30 seconds       |
| 3            | Pulse @10 pps                           | 61/39      | After 30 seconds       |
| 4 (default)  | DTMF                                    | N/A        | After 30 seconds       |

| Location: 26 | Dialer Controls: (2Digit): |              |
|--------------|----------------------------|--------------|
| 2Digit       | Attempts                   | Voice Module |
| 0            | 8                          | No           |
| 1 (default)  | 3                          | No           |
| 8            | 3                          | Yes          |
| 9            | 8                          | Yes          |

### Central Station Protocols: Location 27, Default: 00

To understand and modify the Code format according to a specific central station see the following

- **First digit:** determine the number corresponding to the desired combination of:  
Kiss-off/ Handshake Freq/ Message Validation/ Extended-Non-Extended Format

- **Second digit:** determine the number (or letter) corresponding to the desired Combination of: Dialing Rate/ Inter digit Time /Date Frequency

| Location: 27          |              | CS Protocols: (1 <sup>st</sup> Digit) |                    |
|-----------------------|--------------|---------------------------------------|--------------------|
| 1 <sup>st</sup> Digit | Format       | Kiss-off/Handshake Freq               | Message Validation |
| 0(default)            | Non-Extended | 1400Hz                                | Dual Round Compare |
| 1                     | Non-Extended | 2300Hz                                | Dual Round Compare |
| 2                     | Non-Extended | 1400Hz                                | Parity             |
| 3                     | Non-Extended | 2300Hz                                | Parity             |
| 4                     | Extended 扩展  | 1400Hz                                | Dual Round Compare |
| 5                     | Extended     | 2300Hz                                | Dual Round Compare |
| 6                     | Extended     | 1400Hz                                | Parity             |
| 7                     | Extended     | 2300Hz                                | Parity             |

| Location:27           |               | CS Protocols:(2 <sup>nd</sup> Digit) |                |
|-----------------------|---------------|--------------------------------------|----------------|
| 2 <sup>nd</sup> Digit | Date Rate     | Inter digit Time                     | Date Frequency |
| 0(default)            | 40 pulses/sec | 390ms                                | 1800Hz         |
| 1                     | 33 pulses/sec | 390ms                                | 1800Hz         |
| 2                     | 20 pulses/sec | 390ms                                | 1800Hz         |
| 3                     | 10 pulses/sec | 390ms                                | 1800Hz         |
| 4                     | 40 pulses/sec | 650ms                                | 1800Hz         |
| 5                     | 33 pulses/sec | 650ms                                | 1800Hz         |
| 6                     | 20 pulses/sec | 650ms                                | 1800Hz         |
| 7                     | 10 pulses/sec | 650ms                                | 1800Hz         |
| 8                     | 40 pulses/sec | 390ms                                | 1900Hz         |
| 9                     | 33 pulses/sec | 390ms                                | 1900Hz         |
| A                     | 20 pulses/sec | 390ms                                | 1900Hz         |
| B                     | 10 pulses/sec | 390ms                                | 1900Hz         |
| C                     | 40 pulses/sec | 650ms                                | 1900Hz         |
| D                     | 33 pulses/sec | 650ms                                | 1900Hz         |
| E                     | 20 pulses/sec | 650ms                                | 1900Hz         |
| F                     | 10 pulses/sec | 650ms                                | 1900Hz         |

| Format Name                        | (PPS)<br>pulses/sec | Kiss off/<br>Handshake | Validation | Inter Digit<br>Time | Code<br>Format |
|------------------------------------|---------------------|------------------------|------------|---------------------|----------------|
| Silent Knight/ADEMCO Slow          | 10                  | 1400Hz                 | Dual round | 650                 | 0F             |
| Silent Knight/ADEMCO Slow Extended | 10                  | 1400Hz                 | Dual round | 650                 | 4F             |

|  |    |        |            |     |    |
|--|----|--------|------------|-----|----|
| Radionics /DCI/Franklin Slow           | 10 | 2300Hz | Dual round | 650 | 17 |
| Silent Knight Fast                     | 20 | 1400Hz | Dual round | 650 | 0E |
| Silent Knight Fast Extended            | 20 | 1400Hz | Dual round | 650 | 4E |
| Sescoa / Franklin/ Vertix/DCI Extended | 20 | 2300Hz | Dual round | 650 | 56 |
| Universal high speed                   | 20 | 2300Hz | Dual round | 390 | 12 |
| Radionics                              | 20 | 1400Hz | Dual round | 390 | 02 |
| Radionics                              | 20 | 2300Hz | Dual round | 390 | 12 |
| Radionics Extended                     | 20 | 1400Hz | Dual round | 390 | 42 |
| Radionics Extended                     | 20 | 2300Hz | Dual round | 390 | 52 |
| Radionics                              | 40 | 1400Hz | Dual round | 390 | 00 |
| Radionics                              | 40 | 2300Hz | Dual round | 390 | 10 |
| Radionics Extended                     | 40 | 1400Hz | Dual round | 390 | 40 |
| Radionics Extended                     | 40 | 2300Hz | Dual round | 390 | 50 |
| Radionics                              | 40 | 1400Hz | Parity     | 390 | 20 |
| Radionics                              | 40 | 2300Hz | Parity     | 390 | 30 |
| Radionics Extended                     | 40 | 1400Hz | Parity     | 390 | 60 |
| Radionics Extended                     | 40 | 2300Hz | Parity     | 390 | 70 |

#### **CS Protocols: Location 28, default: 03**

When selecting 01 (the contact ID) format, all the reporting codes will be automatically applied to the locations of the reporting codes.

When selecting 03 (the Pulsed Protocol) the default for all the reported codes will be "00" and any other code should be entered manually follow the CMS software.

| Digit       | Format Name | Inter-digit Time | Date Frequency |
|-------------|-------------|------------------|----------------|
| 01          | Contact ID  | NA               | NA             |
| 03(default) | 4+2         |                  |                |

|                     |                    |  |
|---------------------|--------------------|--|
| <b>Location: 29</b> | <b>Preparation</b> |  |
|---------------------|--------------------|--|

#### **System Controls: Location 30, Default 13**

Location 30 allows you to specify some additional parameters, which determine how the control panel will operate. The location contains two digits.

**Comments on system controls (Location 30:1<sup>st</sup>Digit)**

**Quick Arm:** Eliminates the need for entering a User Code when arming to the STAY or AWAY modes. Simply pressing [STAY]or[ARM] will arm the system to the respective mode

**Loudspeaker/Bell-Siren:** Select **Loudspeaker** if the external sounder(s) NOT equipped with a built-in sound driver; doing so causes the panel to produce an oscillating frequency for the device, select **Bell/Siren** if the external sounder(s) is a bell or a buzzer or equipped with a built-in electronic sound driver

**Quick Bypass:** Eliminates the need to enter a User Code when bypassing a zone.

**Silent Panic:** If "NO", the panic alarm will be AUDIBLE at the External Sounder and visual on the keypad. If "YES", the panic alarm will be INAUDIBLE at the External Sounder and invisible on the keypad and there will be no audible kiss-off.

**Bell Squawk On Arming:** If selected, Bell Squawk on Arming will produce a brief confirmation "chirp" from the system's external sounder(s) once the system is armed and the Exit Delay expires.

**3 Minute Bypass Enabled:** If selected, 3-Minute Bypass Enabled bypasses all zones automatically for 3 minutes when power is restored to an "un-powered" system-to prevent potential false alarms by allowing time for the stabilization of motion and/or smoke detectors.

- **First digit:** determine the number(or letter)corresponding to the choices involving Quick Arm/Quick Bypass/Loudspeaker/Bell-Siren
- **Second digit:** determine the number (or letter)corresponding to the use of silent Panic/Bell Squawk on Arming /3 Minute Bypass

| Location:30           | System Controls: (1 <sup>st</sup> Digit) |           |              |
|-----------------------|--|-----------|--------------|
| 1 <sup>st</sup> Digit | Loudspeaker/Bell-Siren                   | Quick Arm | Quick Bypass |
| 0                     | Bell-Siren                               | NO        | YES          |
| 1(default)            | Bell-Siren                               | YES       | YES          |

|                            |   |                     |                           |
|----------------------------|---|---------------------|---------------------------|
| 4                          | Bell-Siren                                    | NO                  | YES                       |
| 5                          | Bell-Siren                                    | YES                 | YES                       |
| 8                          | Loudspeaker                                   | YES                 | NO                        |
| <b>Location:30</b>         | <b>System Controls:( 2<sup>nd</sup>Digit)</b> |                     |                           |
| <b>2<sup>nd</sup>Digit</b> | <b>3 Minute Bypass</b>                        | <b>Silent Panic</b> | <b>Bell Squawk On Arm</b> |
| 0                          | Enabled                                       | NO                  | NO                        |
| 1                          | Enabled                                       | YES                 | NO                        |
| 2                          | Enabled                                       | NO                  | YES                       |
| 3(default)                 | Enabled                                       | YES                 | YES                       |
| 4                          | Disabled                                      | NO                  | NO                        |

#### **Periodic Test Time: Location 31**

If desired, the RP208CN can send a daily test transmission to the Central Station to Verify the operation of the Unit's Digital Communicator.

|                    |                           |                      |
|--------------------|---------------------------|----------------------|
| <b>Location:31</b> | <b>Periodic Test Time</b> | <b>Default: 0000</b> |
|--------------------|---------------------------|----------------------|

Sets a fixed, daily time for sending an test transmission to the Central Station. The chosen time is expressed in 24-Hour format (following examples): 8:30 AM=0830 11:15AM=1115, 4:30 PM=1630 If desired, disable the test transmission capability by accepting (or entering) the default (0000)

**Note:** Failure to set the systems' time clock, will prevent the code from being sent to the Central Station.

#### **Communicator Reporting Codes: Locations 32-94**

The reporting codes is a report when the system has something happened to give a report to the alarm center. Different status will send different report.

##### **Reporting Codes for Alarm Events:**

To program the codes that will be transmitted by the RP208CN to the Central Station.

To prevent the corresponding event from being reported, use a "double-zero"(00, the default) in the location.

##### **Notes on Alarm Restores:**

An RP208CN Restore Repot informs the Central Station that the external sounder's operation, initially triggered by the respective alarm condition, has

either "timed out" or been silenced by the act of system disarming. Be sure to check with Central Station personnel if restore are permitted and, if so, what codes are required.

Annotate: When the communicate protocol is CID, separated codes is the same as restore codes(ABC), input the last 3 digit: OABC;

When the communicate protocol is 4+2, the first 2 digit are separated reporting codes(AB), the last 2 digit are restore reporting codes(CD), total are 4 digit: ABCD

**Hex date fast operation**    A=[STAY]+[1]        B=[STAY]+[2]  
    C=[STAY]+[3]        D=[STAY]+[4]  
    E=[STAY]+[5]        F=[STAY]+[6]

| Location | Description   | Num | Digit | Report Code |
|----------|---|-----|-------|-------------|
| 32       | Zone 1 Alarm Reporting code                                     |     | 3     | 000         |
| 33       | Zone 2 Alarm Reporting code                                     |     | 3     | 000         |
| 34       | Zone 3 Alarm Reporting code                                     |     | 3     | 000         |
| 35       | Zone 4 Alarm Reporting code                                     |     | 3     | 000         |
| 36       | Zone 5 Alarm Reporting code                                     |     | 3     | 000         |
| 37       | Zone 6 Alarm Reporting code                                     |     | 3     | 000         |
| 38       | Zone 7 Alarm Reporting code                                     |     | 3     | 000         |
| 39       | Zone 8 Alarm Reporting code                                     |     | 3     | 000         |
| 40       | Keypad Fire Alarms Reporting code                               |     | 3     | 000         |
| 41       | Keypad Panic Reporting code                                     |     | 3     | 000         |
| 42       | Keypad Special Emergency Reporting code                         |     | 3     | 000         |
| 43       | Zone 1 Restore code   |     | 3     | 000         |
| 44       | Zone 2 Restore code   |     | 3     | 000         |
| 45       | Zone 3 Restore code   |     | 3     | 000         |
| 46       | Zone 4 Restore code   |     | 3     | 000         |
| 47       | Zone 5 Restore code   |     | 3     | 000         |
| 48       | Zone 6 Restore code   |     | 3     | 000         |
| 49       | Zone 7 Restore code   |     | 3     | 000         |
| 50       | Zone 8 Restore code   |     | 3     | 000         |
| 51       | Keypad Fire Restore code  |     | 3     | 000         |
| 52       | Keypad Panic Restore Code                                       |     | 3     | 000         |
| 53       | Keypad Special Emergency Restore Code                           |     | 3     | 000         |
| 54       | User 0 arm (the "Master" Code, "Quick Arm" OR "Keyswitch" Arm)0 |     | 3     | 000         |
| 55       | User 1 arm Reporting code                                       |     | 3     | 000         |

|    |   |  |   |      |
|----|---|--|---|------|
| 56 | User 2 arm Reporting code   |  | 3 | 000  |
| 57 | User 3 arm Reporting code   |  | 3 | 000  |
| 58 | User 4 arm Reporting code   |  | 3 | 000  |
| 59 | User 5 arm Reporting code   |  | 3 | 000  |
| 60 | User 6 arm Reporting code   |  | 3 | 000  |
| 61 | User 7 arm Reporting code   |  | 3 | 000  |
| 62 | User 8 arm Reporting code   |  | 3 | 000  |
| 63 | User 9 arm Reporting code   |  | 3 | 000  |
| 64 | User 0, disarm Reporting code<br>(Key switch disarm)                              |  | 3 | 000  |
| 65 | User 1, disarm Reporting code   |  | 3 | 000  |
| 66 | User 2, disarm Reporting code   |  | 3 | 000  |
| 67 | User 3, disarm Reporting code   |  | 3 | 000  |
| 68 | User 4, disarm Reporting code   |  | 3 | 000  |
| 69 | User 5, disarm Reporting code   |  | 3 | 000  |
| 70 | User 6, disarm Reporting code   |  | 3 | 000  |
| 71 | User 7, disarm Reporting code   |  | 3 | 000  |
| 72 | User 8, disarm Reporting code   |  | 3 | 000  |
| 73 | User 9, disarm Reporting code   |  | 3 | 000  |
| 74 | Auto ARM report code  |  | 3 | 000  |
| 75 | Forced arm (when the system is<br>armed with a bypassed zone )<br>Reporting code  |  | 3 | 000  |
| 76 | Stay arm when the system is armed<br>to the Stay (At Home mode)<br>Reporting code |  | 3 | 000  |
| 77 | Duress Disarm   |  | 3 | 000  |
| 78 | Daily test Report Code sent everyday<br>at the time specified in Location 24      |  | 3 | 000  |
| 79 | Low Battery Reporting code  |  | 3 | 000  |
| 80 | Loss of AC Power(for at least 15 min)<br>Reporting code                           |  | 3 | 000  |
| 81 | Fire zone trouble Reporting code  |  | 3 | 000  |
| 82 | Bell Loop Interrupted Reporting code  |  | 3 | 000  |
| 83 | Low Battery restore Reporting code  |  | 3 | 000  |
| 84 | Loss of AC Power restore Reporting<br>code  |  | 3 | 000  |
| 85 | Fire zone trouble restore Reporting<br>code                                       |  | 3 | 000  |
| 86 | Bell Loop Restored Reporting Code   |  | 3 | 000  |
| 87 | Zone 1 Bypass / Restore Reporting<br>code   |  | 4 | ABCD |
| 88 | Zone 2 Bypass / Restore Reporting<br>code   |  | 4 | ABCD |
| 89 | Zone 3 Bypass / Restore Reporting<br>code   |  | 4 | ABCD |
| 90 | Zone 4 Bypass / Restore Reporting<br>code   |  | 4 | ABCD |

|    |  |  |   |      |
|----|--|--|---|------|
| 91 | Zone 5 Bypass / Restore Reporting code |  | 4 | ABCD |
| 92 | Zone 6 Bypass / Restore Reporting code |  | 4 | ABCD |
| 93 | Zone 7 Bypass / Restore Reporting code |  | 4 | ABCD |
| 94 | Zone 8 Bypass / Restore Reporting code |  | 4 | ABCD |

| RP208CN Control Panel Contact ID reporting codes |            |             |  |  |
|--|------------|-------------|--|--|
| Event reporting                                  | Contact ID |             |  |  |
| Zone alarm/unarm                                 |            | Report code |  |  |
| Entry/exit alarm                                 |            | 134         |  |  |
| Entry/exit Restore                               |            | 134         |  |  |
| Panic alarm                                      |            | 130         |  |  |
| Panic Restore                                    |            | 130         |  |  |
| 24 hours zone alarm                              |            | 133         |  |  |
| 24 hours zone Restore                            |            | 133         |  |  |
| Tamper zone alarm                                |            | 137         |  |  |
| Tamper zone Restore                              |            | 137         |  |  |
| Smoke induce zone alarm/Restore                  |            | 111         |  |  |
| Fire zone alarm/Restore                          |            | 112         |  |  |
| Waterproof zone alarm/Restore                    |            | 113         |  |  |
| High temperature zone alarm                      |            | 114         |  |  |
| High temperature zone Restore                    |            | 114         |  |  |
| Pipeline zone alarm/Restore                      |            | 116         |  |  |
| Fire zone alarm/Restore                          |            | 117         |  |  |
| Warning sound alarm                              |            | 122         |  |  |
| Warning sign alarm                               |            | 123         |  |  |
| Perimeter zone alarm/Restore                     |            | 131         |  |  |
| Interior zone alarm/Restore                      |            | 132         |  |  |
| Daytime/nights zone alarm/Restore                |            | 135         |  |  |
| Open zone alarm/Restore                          |            | 136         |  |  |
| System zone alarm/Restore                        |            | 140         |  |  |
| Detector tamper zone alarm/Restore               |            | 144         |  |  |
| 24 hours zone alarm/Restore                      |            | 151         |  |  |
| gas-fired alarm                                  |            | 151         |  |  |
| gas-fired alarm Restore                          |            | 151         |  |  |
| Low temperature zone alarm/Restore               |            | 152         |  |  |
| temperature dissipate alarm/Restore              |            | 153         |  |  |
| Liquid leak alarm                                |            | 154         |  |  |
| Liquid leak Restore                              |            | 154         |  |  |
| Oil leak alarm/Restore                           |            | 155         |  |  |
| Gas leak alarm/Restore                           |            | 157         |  |  |
| High temperature alarm/Restore                   |            | 158         |  |  |
| temperature dissipate alarm/Restore              |            | 159         |  |  |
| Airflow unsteady alarm                           |            | 161         |  |  |

|                                     |  |     |  |  |
|-------------------------------------|--|-----|--|--|
| <b>special function</b>             |  |     |  |  |
| urgency key-press alarm             |  | 100 |  |  |
| urgency key-press Restore           |  | 100 |  |  |
| Fire zone alarm                     |  | 110 |  |  |
| Fire zone Restore                   |  | 110 |  |  |
| Fire key-press alarm                |  | 115 |  |  |
| Fire key-press Restore              |  | 115 |  |  |
| Medical treatment emergency alarm   |  | 120 |  |  |
| Medical treatment emergency Restore |  | 120 |  |  |
| menace alarm                        |  | 121 |  |  |
| Menace Restore                      |  | 121 |  |  |

|                        |  |     |  |  |
|------------------------|--|-----|--|--|
| <b>Fault reporting</b> |  |     |  |  |
| AC fault               |  | 301 |  |  |
| AC Restore             |  | 301 |  |  |
| Battery power low      |  | 302 |  |  |
| Battery power Restore  |  | 302 |  |  |
| Warning sign fault     |  | 321 |  |  |
| Warning sign Restore   |  | 321 |  |  |
| Fire zone fault        |  | 373 |  |  |
| Fire zone Restore      |  | 373 |  |  |

|                         |    |     |  |  |
|-------------------------|----|-----|--|--|
| <b>On/off reporting</b> |    |     |  |  |
| User arm                | 6A | 401 |  |  |
| User unarm              | 6A | 401 |  |  |
| User 0 quick arm/unarm  | 62 | 408 |  |  |
| Force arm               | 63 | 574 |  |  |
| periodic test           | 64 | 602 |  |  |

|   |   |
|---|---|
| <b>RP208CN</b><br><b>Installer Programming Worksheet</b>              | Customer _____<br>Address _____<br>City _____ State _____ Zip _____                     |
|   | Customer Phone No: (     ) _____<br>Central Station Account No: _____<br>Comments _____ |
| Date of Installation: _____<br>Installer(s): _____<br>Comments: _____ |   |

| Location | Description       | Entry | Remark |
|----------|-------------------|-------|--------|
| 00       |                   |       |        |
| 01       |                   |       |        |
| 02       | Phone No. CS 1    |       |        |
| 03       | Phone No. CS 2    |       |        |
| 04       |                   |       |        |
| 05       | CS Account No.    |       |        |
| 06       |                   |       |        |
| 07       |                   |       |        |
| 08       | Installer Code 1  |       |        |
| 09       | Installer Code 2  |       |        |
| 10       | Master Code       |       |        |
| 11       | Exit Delay        |       |        |
| 12       | Entry Delay       |       |        |
| 13       | Bell cutoff Time  |       |        |
| 14       | Zone 1 Settings   |       |        |
| 15       | Zone 2 Settings   |       |        |
| 16       | Zone 3 Settings   |       |        |
| 17       | Zone 4 Settings   |       |        |
| 18       | Zone 5 Settings   |       |        |
| 19       | Zone 6 Settings   |       |        |
| 20       | Zone 7 Settings   |       |        |
| 21       | Zone 8 Settings   |       |        |
| 22       | Utility Output    |       |        |
| 23       |                   |       |        |
| 24       |                   |       |        |
| 25       |                   |       |        |
| 26       | Dialer Controls   |       |        |
| 27       | CS Protocols 1    |       |        |
| 28       | CS Protocols 2    |       |        |
| 29       |                   |       |        |
| 30       | System Controls   |       |        |
| 31       | Periodic Time Set |       |        |
| 32       | Zone 1 Alarm      |       |        |
| 33       | Zone 2 Alarm      |       |        |
| 34       | Zone 3 Alarm      |       |        |
| 35       | Zone 4 Alarm      |       |        |

|    |                     |  |  |
|----|---------------------|--|--|
| 36 | Zone 5 Alarm        |  |  |
| 37 | Zone 6 Alarm        |  |  |
| 38 | Zone 7 Alarm        |  |  |
| 39 | Zone 8 Alarm        |  |  |
| 40 | Kpd Panic Alarm     |  |  |
| 41 | Kpd Fire Alarm      |  |  |
| 42 | Kpd SP Alarm        |  |  |
| 43 | Restore Code Zone 1 |  |  |
| 44 | Restore Code Zone 2 |  |  |
| 45 | Restore Code Zone 3 |  |  |
| 46 | Restore Code Zone 4 |  |  |
| 47 | Restore Code Zone 5 |  |  |
| 48 | Restore Code Zone 6 |  |  |
| 49 | Restore Code Zone 7 |  |  |
| 50 | Restore Code Zone 8 |  |  |
| 51 | Restore Kpd Fire    |  |  |
| 52 | Restore Kpd Panic   |  |  |
| 53 | Restore Kpd SP      |  |  |
| 54 | User 0 Arm          |  |  |
| 55 | User 1 Arm          |  |  |
| 56 | User 2 Arm          |  |  |
| 57 | User 3 Arm          |  |  |
| 58 | User 4 Arm          |  |  |
| 59 | User 5 Arm          |  |  |
| 60 | User 6 Arm          |  |  |
| 61 | User 7 Arm          |  |  |
| 62 | User 8 Arm          |  |  |
| 63 | User 9 Arm          |  |  |
| 64 | User 0 disarm       |  |  |
| 65 | User 1 disarm       |  |  |
| 66 | User 2 disarm       |  |  |
| 67 | User 3 disarm       |  |  |
| 68 | User 4 disarm       |  |  |
| 69 | User 5 disarm       |  |  |
| 70 | User 6 disarm       |  |  |
| 71 | User 7 disarm       |  |  |
| 72 | User 8 disarm       |  |  |
| 73 | User 9 disarm       |  |  |
| 74 | Auto ARM            |  |  |
| 75 | Forced arm          |  |  |
| 76 | Stay Arm            |  |  |
| 77 | Duress Disarm       |  |  |
| 78 | Daily test Report   |  |  |
| 79 | Rpt Code Low Bat    |  |  |
| 80 | Rpt Code AC Loss    |  |  |
| 81 | Rpt Code Fire Tb    |  |  |
| 82 | Rpt Code Bell Loop  |  |  |

|    |                         |  |  |
|----|-------------------------|--|--|
| 83 | Restore Code Low Bat    |  |  |
| 84 | Restore Code AC Loss    |  |  |
| 85 | Restore Code Fire Tbl   |  |  |
| 86 | Restore Code Bell Loop  |  |  |
| 87 | Zone 1 Bypass / Restore |  |  |
| 88 | Zone 2 Bypass / Restore |  |  |
| 89 | Zone 3 Bypass / Restore |  |  |
| 90 | Zone 4 Bypass / Restore |  |  |
| 91 | Zone 5 Bypass / Restore |  |  |
| 92 | Zone 6 Bypass / Restore |  |  |
| 93 | Zone 7 Bypass / Restore |  |  |
| 94 | Zone 8 Bypass / Restore |  |  |

|        |  |
|--------|--|
| Phone1 |  |
| Phone2 |  |