



PROGRAMMING AND INSTALLATION MANUAL

FOR MODEL RP208CN



CHAPTER 1

BEFORE INSTALLATION.....	4
FAQ OF INSTALLATION AND SOLUTIONS.....	4
THE MAIN BOARD.....	5
WIRING DIAGRAM.....	7
INSTALLING THE CONTROL PANEL AND KEYPAD.....	8
CONNECTING THE TELEPHONE LINE.....	8
CONNECTING THE STANDBY BATTERY.....	8
CONNECTING TRANSFORMER.....	8
CONNECTING SIREN.....	8
CONNECTING DETECTOR(S).....	8
CONNECTING VOICE MODULE.....	9
CONNECTING REMOTE CONTROL RECEIVER.....	9
CONNECTING WIRELESS MODULE.....	10

CHAPTER 2 - FUNCTION AND TECHNICAL DATA

MAIN FEATURES OF RP208KCL.....	11
MAIN FEATURES OF RP208MB.....	11

CHAPTER 3 – PROGRAMMING THE GUARD8

RESTORING FACTORY DEFAULTS.....	14
PROGRAM EXPLAIN.....	14
CHECK LOCATION DATA.....	14
ENTRY/EXIT PROGRAM.....	14
A PROGRAMMING TUTORIAL.....	15
GENERAL SYSTEM PARAMETERS:.....	16
INSTALLER CODE.....	16
SYSTEM TIME.....	17
INTRUSION ZONE TYPES AND ZONE SOUNDS.....	18
UTILITY OUTPUTS - EVENT AND RESULT.....	20
COMMUNICATION PARAMETERS.....	22
DIGITAL COMMUNICATOR CONTROLS.....	22
CENTRAL STATION PROTOCOLS.....	23
PERIODIC TEST TIME.....	25
COMMUNICATOR REPORTING CODES.....	26
REPORTING CODES FOR ALARM EVENTS.....	26
RP208CN CONTROL PANEL CONTACT ID REPORTING CODES.....	28
PROGRAMMING WORKSHEET.....	30
GAURD8 WARRANTY.....	32

GUARD8 INSTALLATION

This series of control panel, which is designed and produced by ROISCOK, integrates easy operation and advanced technology.

All zones are programmable, with built-in digital communicator, flexible connection to alarm centre, and compatible to all popular communication formats. The guard8 is 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 should read the all the subjects in manual deeply before installation to avoid unnecessary damage to the products.

You should install the system first, before powering the system.

Please make sure the systems is not powered when you handle the connections. Otherwise this can activate the systems self-protection, and cause the electronic components to malfunction or burnout.

The 2.2k Ω resistors which is provided should be used in detectors to terminate the zones.

FAQ of Installation and Solution

The GUARD8 has self-protection system and a self-check function. The Keypad will make a sound to prompt the user to check up and Correction when the system is installed or set in error.

- 1.If the keypad emits a continuous "beep" Please check if the tamper button on the back of the keypad installed, is in the correct working or locked position
2. Please review the chapter 2 No.17 Trouble Display, when the keypad makes a rhythmic "beep, beep, beep". In this case it may be one of the following conditions: 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 a " beep, beep, beep" sound when you input the wrong operation.
4. Please check whether the connection between the port "ALARM" on the detector and control panel is connected firm and connected the 2.2k ohm resistor correctly if the Alarm false alarms under armed state.
5. Please check whether the shell of detectors is installed correctly, otherwise the zone may remain open of detector will cause a tamper state.
6. Under disarmed state, when the keypad display "Z1 NOT READY "□it means the zone 1 is not ready or is open.

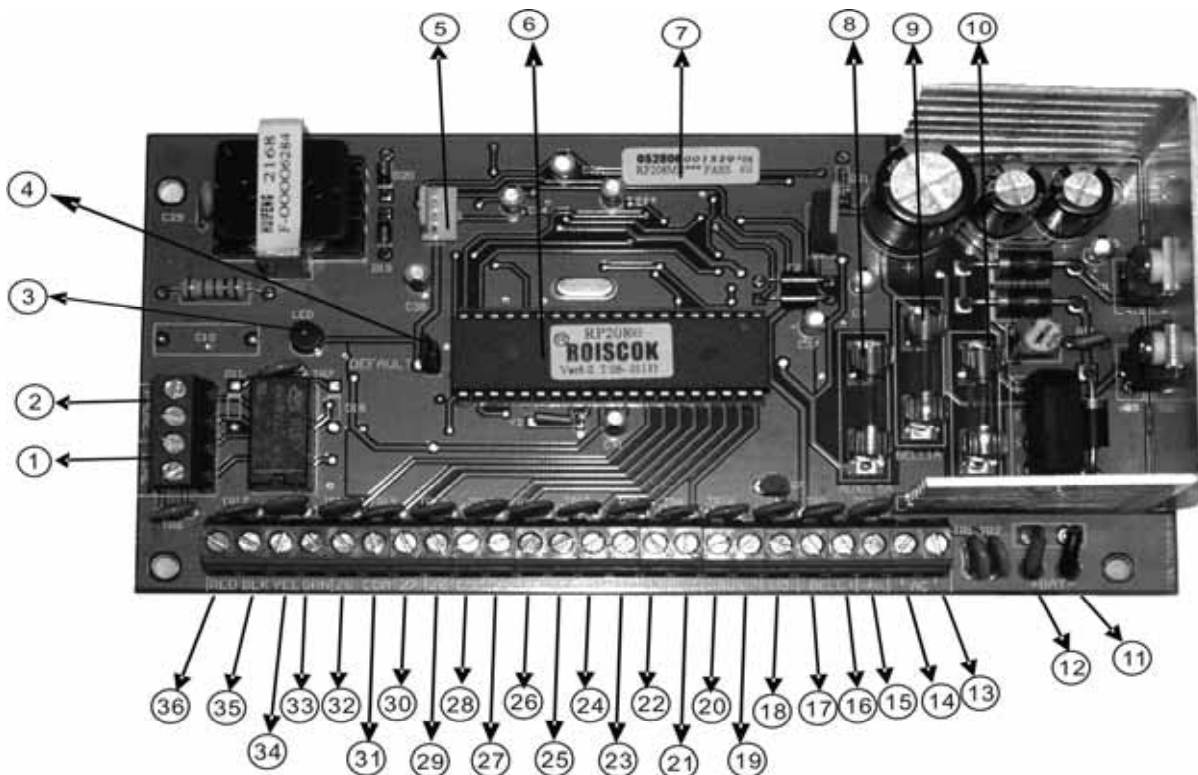


Fig.2 GUARD8 RP208MB

The Main Board

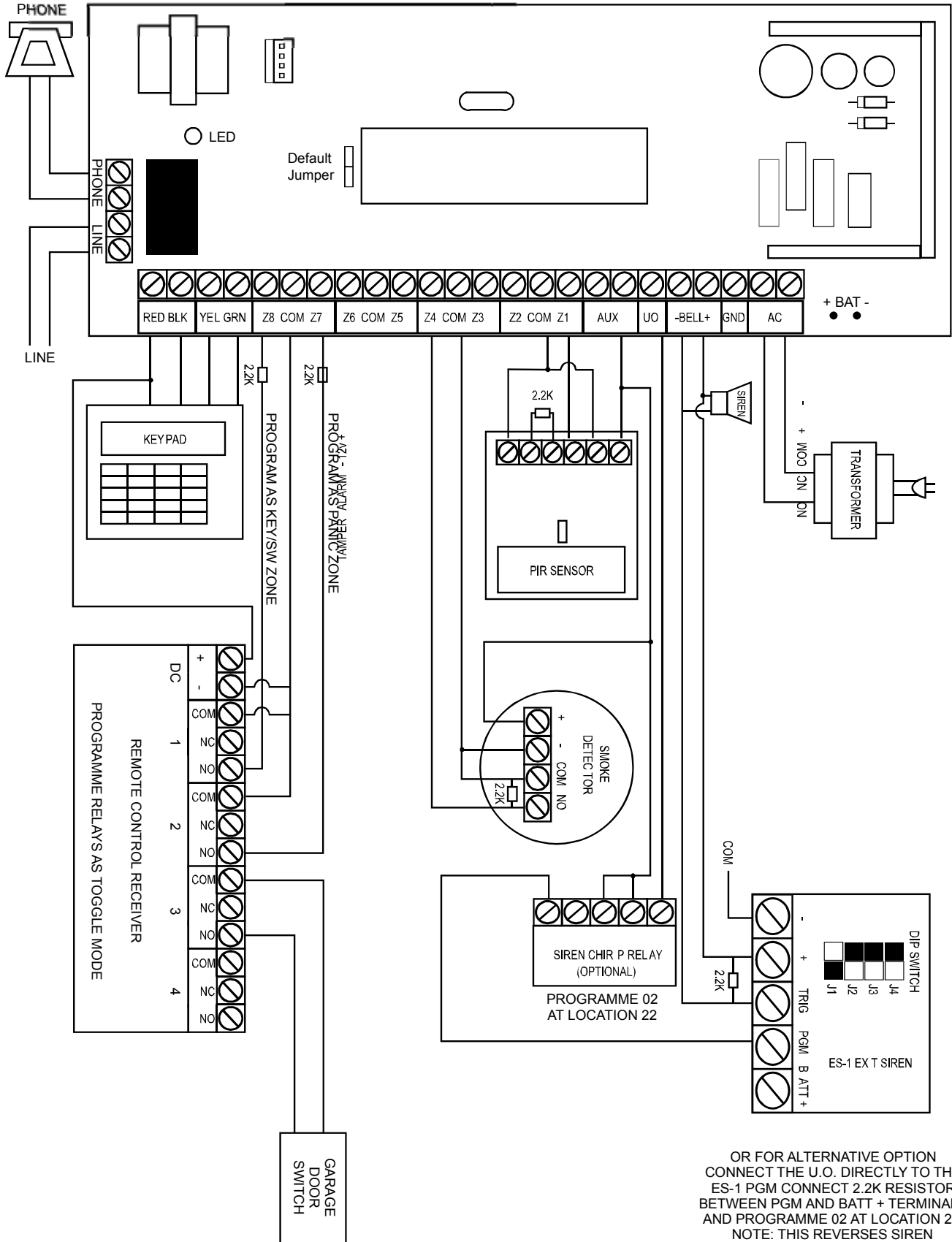
As Figure 2, shows connection ports and operation of the following:

- 1 the port "LINE" for telephone line
- 2 the port "PHONE" for telephone set
- 3 Dialling 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 Ground terminal
- 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 the negative terminal of the detector(s) "DC12V" and one terminal of the "ALARM" relay output on the detector
- 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. Suitable for connecting 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 defaulted 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 "YEL" 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.



WIRING DIAGRAM



OR FOR ALTERNATIVE OPTION
 CONNECT THE U.O. DIRECTLY TO THE
 ES-1 PGM CONNECT 2.2K RESISTOR
 AND PROGRAMME 02 AT LOCATION 22.
 NOTE: THIS REVERSES SIREN
 CHIRP NOTIFICATION
 - 2 CHIRPS TO ARM - 1 CHIRP DISARM

Install Control Panel and Keypad

The GUARD8 control panel should be installed in the vicinity, near a AC power supply which cannot be easily switched off, using the correct equipment, to avoid damage.

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 it on and press it tightly to the wall while installing.

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

Connecting 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. Refer to Fig.3.

Connect the Standby Battery

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

Connect the wires marked BAT link to the battery with anode+ (red) and the cathode -(black) respectively. Refer to Fig.3.

Connecting the Transformer

The output of transformer should be AC16.5V, connecting into the two AC ports on the mainboard. Please note the red wires for the high -voltage, do not mix with blue which is the low-voltage.

Don't power the system till the installation is completed

Connecting the Siren

The port BELL is used for connection to the siren. Please watch for cathode and anode when connecting.

Connecting the Detector(s)

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

1. Used and unused zones should be connected with 2.2k Ω termination resistors. When connecting detectors, please install termination resistors in the detector, to ensure the system of self-protection function.
2. Connect the two ports on the detector of ALARM, one for COM port and another for alarm zone ports respectively on the mainboard.
3. If used, connect the TAMPER ports of detector, to the designate tamper zone and COM, or connect in series with the detector relay.
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.

Connecting the Voice Module

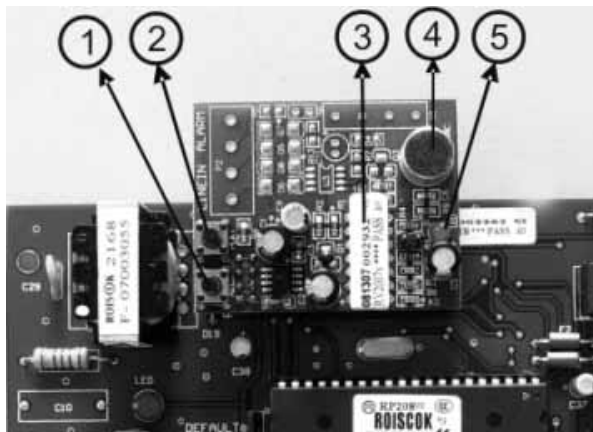


Fig.4 Voice Module

As Fig.4, to connect the voice module all you have to do, is just 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

Connecting the Remote Receiver



1. When arming or disarming by a remote controller, please program a zone as switch lock zone.
2. Connect the remote receiver arm/disarm relay using Com and NO Port to the designated switch lock zone.
3. A 2.2Ohm resistor should be connected in Series, and receiver relay should be programmed as a toggle type.
4. If requested a relay on the receiver can be also connected to a panic zone, and other relays can be used to open garage doors or gates.
5. Please refer to Remote and Receiver Manual for more details on programming remote controls and relays

Connecting the Wireless Expansion Module

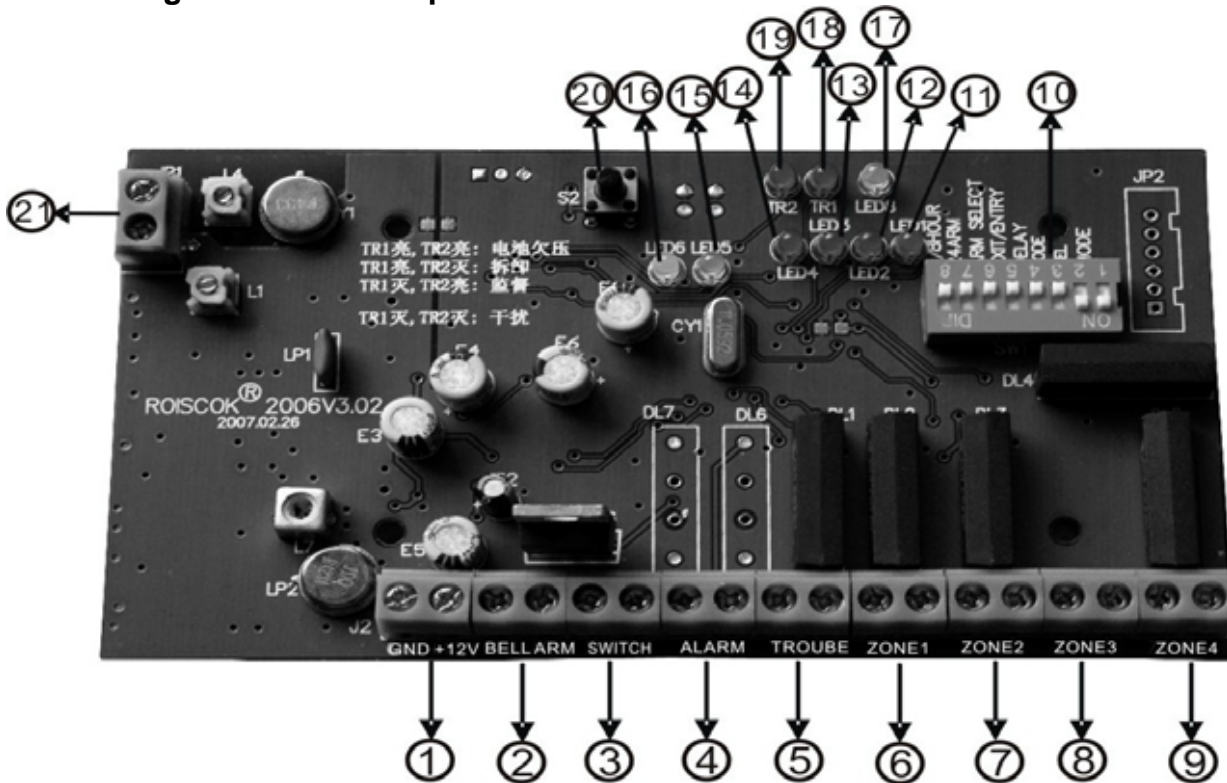


Fig.6 The Wireless Receiver

The operation and the ports 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 to 4 of the zones on GUARD8 Control Panel

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 GUARD8

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.

CHAPTER 2 FUNCTION AND TECHNICAL DATA

You can communicate to your GUARD8 (8 zones control panel) through the LCD Keypads (RP208KCL). Each GUARD8 can be matched with 4 LCD keypads. With the LCD Keypad(s), you can operate your system to arm/disarm, bypass, emergency, closing the siren, inspect 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 model of GUARD8 is RP208CN.

The main features of RP208CN include the RP208KCL and RP208MB.

Main Features Of RP208KCL

LCD can display the functions of the 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 2.2K Ω

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 \square 750mA(max)

Built-in Digital Communicator

Attached Digital Communicator, Compatible with Contact ID \square 4+2

4 Follow-me Phone Personal Dialing or Cellphone 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

Monitored Functions

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.

(check the location 22 in Chapter 5 for details)

Charging of Standby Battery

Main Board has a 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 buss up to 1000M from panel
Dimensions	110*130*25mm
Weight	0.23kg

CHAPTER 5 – PROGRAMMING THE GUARD8

Restoring Factory Defaults

Reset the factory defaults prior to starting programming procedure

Connect the keypad and the control panel

Check wires are connected correctly and power is off and battery disconnected

Short circuit the default jumper on the main board of the control panel

Reconnect the power (AC or the standby battery)

When you hear a brief sound "beep", remove J1. Now the factory defaults should be reset.

Please check the signal light, when you are in programme mode, the READY light should flicker.

Program Explanation

First confirm the Default jumper is off.

Programming is a process of altering or setting the location data of the control panel, GUARD8 has 94 locations 01-94 for setting data, and each data will correspond to a different function of the control panel. The locations are made up of 2 digits, the data of location are made up of 1 digit, 2 digits or many digits. GUARD8 has been designed so that programming operation is made simple and easy.

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

Checking Location Data

After entering programming mode and parameter location the existing data will be displayed.

ENTRY/EXIT Program

Following the procedure below to enter into or exit the program state, check location data, change the location data and so on

Enter into program mode: pres [#]+[master code]

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

Enter into the next location: press [ARM]

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.

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 your own choosing. If you can master this operation, subsequent programming should be easy.

1	Enter the Programming Mode	Enter the factory default Installer Code : [#][0][2][0][6]	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 Locations

General System Parameters: Locations 00-07

Location: 01	Preparation	Default: 00
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Location: 02	the First Central Station phone number

Explanation: To input or alter the phone number when required, enter the location and input all digits including the area code. When done, 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, simply press the [#] key.

To enter or replace the phone number required to reach the primary Central Station include all access digits (eg. 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

Same as in Location 02

Location: 04	Preparation	
Location: 05	User's a/c 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 GUARD8. 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

Location: 06	Preparation
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Location: 07	Preparation
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Installer Code Location 08-10

Location: 08	Installer Code I					Default: 0206
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The installer code used by installer authorised 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

Location: 09	Installer Code II					Default: 1206
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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 Master lock code.

Location: 10	Master Code					Default: 1234
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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 Timing Locations 11-13

Location: 11	Exit Delay	Default: 030
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Location 11 is used to set the time of exit delay, its units is in seconds. 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 armed, it won't alarm till the exit delay has expired

Location: 12	Entry Delay	Default: 030
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Location 12 is used to set the time of entry delay between 001 and 255. For example, 030 means the delay time is 30 seconds.

Location: 13	Bell cut off Time	Default: 03
---------------------	--------------------------	--------------------

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 2.2KΩ resistor when installing, even if the zone not in used.

1 st Digit	Zone Type and comment of Zone 1-8
0	<p>Not Used All unused zones should be given this designation. It is also used to disable a zone</p>
1	<p>Enter/Exit Delay If violated, a zone with this designation will not cause an intrusion alarm during the Entry and Exit Delay periods.</p>
2	<p>Instant(Intrusion) Causes an immediate intrusion alarm if violated when the system is in arm state.</p>
3	<p>Entry Follower 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.</p>
4	<p>Interior + Entry Delay Follower Stay zone 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.</p>
5	<p>Fire Zone 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. 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 flushing of the keypad's Fire LED.</p>
6	<p>Tamper Zone If activated will cause an immediate tamper alarm, regardless of the system's armed/disarmed state.</p>
7	<p>24 Hour Panic Zone If violated an immediate panic alarm will be announced, regardless of the system's armed /disarmed state.</p>
8	<p>Key-switch Zone-Instant If desired for system arming and disarming an external SPST spring-loaded, normally open, toggle 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.</p>

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

For example if the zone 1 needs to set as an entry/exit delay zone, and the exterior alarm needs to be a pulsed sound, then input 12 in location 14. If the zone 3 needs to be set as a 24-hour zone and the siren needs to be constant then input 71 in locate 16.

Defaulted Zone Definitions

- 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:

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.

Urgency zone alarm doesn't result the siren sound but calling to the CMS or follow-me numbers. Zone 6 on the GUARD8 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 GUARD8 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
00 (default)	Not Active UO offers no response to any system activity UO
01	Preparation
02	Arm Follow (Latch) UO is activated when the system is armed. The UO remains active (latched) while the system is armed. When disarming the system the UO deactivates (Unlatches).
03	Arm Follow (Pulse) 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.
04	Alarm Follow (Latched) 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.
05	Alarm Follow (Pulse) 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)
06	Panic Follow (Latched) 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.
07	Panic Follow (Pulse) 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.

08	Fire Keying Follow (Latched) 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.
09	Fire Keying Follow (Pulse) 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.
10	Special Emergency Keying Follow (Latched) 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.
11	Special Emergency Keying Follow (Pulsed) UO is activated for several seconds when pressing the keypad's [7] and [8] keys simultaneously for two seconds.
12	Duress Code Follow(Pulse) UO is activated for several seconds (and then deactivates) when any duress code is entered.
13	Duress Code Follow (Latched) UO is activated when any duress code is entered.
14	AC Loss Follow (Latched) 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.
15	AC Loss Follow (Pulse) AC UO is activated for several seconds (and then deactivates) due to a lack of power from the commercial AC.
16	Low Battery Follow (Latched) UO is activated due to low power from the backup battery. UO1 is deactivated when the battery is in good condition.
17	Low Battery Follow (Pulse) UO is activated for several seconds due to low power from the backup battery.
18	Zone 1 Alarm Follow (Latched) 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.
19	Zone 1 Alarm Follow (Pulse) UO is immediately activated for several seconds (pulse) and then deactivates whenever Zone 1 goes into alarm.
20	Zone 2 Alarm Follow(Latched)
21	Zone 2 Alarm Follow(Pulse)
22	Zone 3 Alarm Follow(Latched)
23	Zone 3 Alarm Follow(Pulse)
24	Zone 4 Alarm Follow(Latched)
25	Zone 4 Alarm Follow(Pulse)

26	Zone 5 Alarm Follow(Latched)
27	Zone 5 Alarm Follow(Pulse)
28	Zone 6 Alarm Follow(Latched)
29	Zone 6 Alarm Follow(Pulse)
30	Zone 7 Alarm Follow(Latched)
31	Zone 7 Alarm Follow(Pulse)
32	Zone 8 Alarm Follow(Latched)
33	Zone 8 Alarm Follow(Pulse)

Communication Parameters Locations 26-29

Locations 26 and 27 allow you to define the manner in which the GUARD8 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 Dialling 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		Dialler Controls:(1 st Digit)	
1 st Digit	Dialling 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		Dialler Controls: (2 nd Digit):	
2 nd Digit	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: Dialling Rate/ Inter digit Time /Date Frequency

Location: 27		CS Protocols: (1 st Digit)	
1 st 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	1400Hz	Dual Round Compare
5	Extended	2300Hz	Dual Round Compare
6	Extended	1400Hz	Parity
7	Extended	2300Hz	Parity

Location:27		CS Protocols:(2 nd Digit)		
2 nd Digit	Date Rate	Inter digit Time	digit	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) pulses /sec	Kiss off/ Handshake	Validation	Inter Digit Time	Code 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		

Location: 29	Preparation

System Controls Location 30, Default 13

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

Comments on system controls (Location 30:1stDigit)

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 stabilisation 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: (1stDigit)		
1st Digit	Loudspeaker/Bell-Siren	Quick Bypass	Quick Arm
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
Location:30	System Controls:(2ndDigit)		
2nd Digit	3 Minute Bypass	Silent Panic	Bell Squawk On Arm
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 GUARD8 can send a daily test transmission to the Central Station to Verify the operation of the Unit's Digital Communicator.

Location:31	Periodic Test Time	Default: 0000
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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 centre. Different status will send different report.

Reporting Codes for Alarm Events:

To program the codes that will be transmitted by the GUARD8 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 Restore Reports:

An GUARD8 Restore Report 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 data fast operation

A=[STAY]+[1]

B=[STAY]+[2]

C=[STAY]+[3]

D=[STAY]+[4]

E=[STAY]+[5]

F=[STAY]+[6]

Location	Description	Number	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 (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 armed with a bypassed zone) Reporting code		3	000
76	Stay arm when the system is armed to the Stay (At Home mode) Reporting code		3	000
77	Duress Disarm		3	000
78	Daily test Report Code sent everyday 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) 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 code		3	000
85	Fire zone trouble restore Reporting code		3	000
86	Bell Loop Restored Reporting Code		3	000
87	Zone 1 Bypass / Restore Reporting code		4	ABCD
88	Zone 2 Bypass / Restore Reporting code		4	ABCD
89	Zone 3 Bypass / Restore Reporting code		4	ABCD
90	Zone 4 Bypass / Restore Reporting 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

GUARD8 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	
special function			
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	
Fault reporting			

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

GUARD8 RP208CN Installer Programming Worksheet		Customer Address City Postcode	
Customer Phone No:() Central Station Account No: Comments		Date of Installation: Installer(s): 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	Dialler 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 Tbl		
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			

GUARD8 Warranty

ROISCOK Electronics Ltd., Mr Security Ltd, and Affiliates ("Seller") warrant its products to be free from defects in materials and workmanship under normal use for 18 months from the date of production or 12 months from date of installation whichever is sooner. Because the Seller does not install or connect the product and because the product maybe used in conjunction with products not manufactured by Seller, seller cannot guarantee the performance of security system which uses this product. Seller's obligation and liability under this warranty is expressly limited to repairing or replacing, at Sellers option, within a reasonable time after the date of delivery, any product not meeting the specifications.

Seller's obligation under this warranty shall not include any transportation charges, or costs of installation or any liability for direct, indirect or consequential or delay. Seller does not represent that its products may not be compromised or circumvented that the product will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; or that the product will in all cases provide adequate warning or protection. Buyer understands that a properly installed and maintained alarm may only reduce the risk of burglary, robbery, fire without warning, but it is not insurance or a guarantee that such will not occur or that there will be no personal injury or property loss as a result.

Consequently, Seller shall have no liability for any personal injury, property damage or loss based on a claim that the product fails to give warning. However, if seller is held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty or otherwise, regardless of cause of origin, sellers maximum liability shall not exceed the purchase price of the product, which shall be the complete and exclusive remedy against seller.

No employee or representative of Seller is authorised to change this warranty in any way or grant any other warranty. All products should be test at least once a week.