Alarm Control Panel

Installer Manual

V1.0.2

Cybersecurity Recommendations

Mandatory actions to be taken towards cybersecurity

1. Change Passwords and Use Strong Passwords:

The number one reason systems get "hacked" is due to having weak or default passwords. It is recommended to change default passwords immediately. The password of this device is made up of 4 to 6 numbers.

2. Update Firmware

Please do not update firmware randomly. If you need to update firmware, please contact technical support or manufacturer.

"Nice to have" recommendations to improve your network security

1. Change Passwords Regularly

Regularly change the credentials to your devices to help ensure that only authorized users are able to access the system.

2. Check the Log:

If you suspect that someone has gained unauthorized access to your system, you can check the system log.

3. Physically Lock Down the Device:

Ideally, you want to prevent any unauthorized physical access to your system. The best way to achieve this is to install the recorder in a lockbox, locking server rack, or in a room that is behind a lock and key.

Foreword

General

This installer manual (hereinafter referred to as "the Manual") introduces the functions and operations of the Alarm Control Panel (hereinafter referred to as "the Control Panel").

Models

DHI-ARC3008C, ARC3008C, DH-ARC3008C, OEM-ARC3008C

Safety Instructions

The following categorized signal words with defined meaning might appear in the Manual.

Signal Words	Meaning
⚠️**DANGER**	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
⚠️**WARNING**	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
⚠️**CAUTION**	Indicates a potential risk which, if not avoided, could result in property damage, data loss, lower performance, or unpredictable result.
TIPS	Provides methods to help you solve a problem or save your time.
NOTE	Provides additional information as the emphasis and supplement to the text.

Revision History

Version	Revision Content	Release Time
V1.0.2	Delete specification appendix	June 2019
V1.0.1	Update Chapter 2, Chapter 5, and Appendix 2, and add Chapter 7	October 2018
V1.0.0	First Release.	September 2018

Privacy Protection Notice

As the device user or data controller, you might collect personal data of others such as face, fingerprints, car plate number, Email address, phone number, GPS and so on. You need to be in compliance with the

local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures include but not limited to: providing clear and visible identification to inform data subject the existence of surveillance Area and providing related contact.

About the Manual

- The Manual is for reference only. If there is inconsistency between the Manual and the actual product, the actual product shall prevail.
- We are not liable for any loss caused by the operations that do not comply with the Manual.
- The Manual would be updated according to the latest laws and regulations of related regions. For detailed information, see the paper manual, CD-ROM, QR code or our official website. If there is inconsistency between paper manual and the electronic version, the electronic version shall prevail.
- All the designs and software are subject to change without prior written notice. The product updates might cause some differences between the actual product and the Manual. Please contact the customer service for the latest program and supplementary documentation.
- There still might be deviation in technical data, functions and operations description, or errors in print. If there is any doubt or dispute, please refer to our final explanation.
- Upgrade the reader software or try other mainstream reader software if the Manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and the company names in the Manual are the properties of their respective owners.
- Please visit our website, contact the supplier or customer service if there is any problem occurred when using the device.
- If there is any uncertainty or controversy, please refer to our final explanation.

Default Access Codes

- Supervisor User: 1234
- TECHNICIAN: 1961

Important Safeguards and Warnings

This Chapter describes the contents covering proper handling of the Device, hazard prevention, and prevention of property damage. Read these contents carefully before using the Device, comply with them when using, and keep it well for future reference.

Operation Requirement

- Modify the default access codes after installation to avoid being stolen.
- Do not place or install the product in a place exposed to sunlight or near the heat source.
- Keep the product away from dampness, dust or soot.
- Keep the product installed on the stable place to prevent it from falling.
- Do not drop or splash liquid onto the product, and make sure there is no object filled with liquid on the product to prevent liquid from flowing into the product.
- Operate the device within the rated range of power input and output.
- Do not dissemble the Device randomly.
- Transport, use and store the Device under the allowed humidity and temperature conditions.

Electrical Safety

- Use the battery as required; otherwise there might result in fire, explosion, or inflammation.
- When replacing battery, make sure the same type is used.
- Use the recommended power cables in the region and conform to the rated power specification.
- The power source shall conform to the requirement of the Safety Extra Low Voltage (SELV) standard, and supply power with rated voltage which conforms to Limited power Source requirement according to IEC60950-1. Please note that the power supply requirement is subject to the device label.
- Connect the device (I-type structure) to the power socket with protective earthing.
- The appliance coupler is a disconnection device. When using the coupler, keep the angle for easy operation.

Table of Contents

1 Introduction

1.1 Overview

The product is a high performance anti-theft controller designed for the middle and small alarm solution application. Adopting embedded Linux operation system and relying on embedded platform, the system can run steadily with advanced controlling technology and strong data transmission ability. The embedded design also supports the product with high security and excellent stability.

The product can work both independently and with professional app in mobile phone, which is convenient for remote viewing and alarm status controlling. The product can also be connected to the network to form the strong security monitoring network, working with the professional alarm platform software to show the strong networking and remote monitoring ability.

The product can be widely applied in the store, warehouse, family, and so on for security protection.

1.2 Features

The functions might be different depending on the software and hardware version of the model you purchased.

- 8 onboard wired Zones.
- 3 programmable hardware outputs on the Control Panel mainboard, including 1-relay output used as siren output and 2-mos transistor outputs of OC type.
- Outputs operation follows system events, Zone events, Area, Link and scheduling programs.
- 1 Alarm Control Panel case tamper and 1 leave-wall tamper.
- 1 siren tamper input.
- Up to 8 Areas, and every Area with 2 partitions.
- Up to 8 Keypads.
- Up to 100 users with 8 authority levels for different users (Supervisor, Manager, Master, User, Temporary, Duress, Patrol, and Technician).
- 1000 events log.
- Supports more than 11 Zone types.
- 7 sorts of Zone terminations, including closed-circuit (NC), open-circuit (NO), end-of-line (EOL) resistors, double end-of-line (DEOL) resistors, triple end-of-line (3DEOL) resistors, inertial type for vibration detector and pulse type for roller shutter.
- Configurable Zone resistance (2K7, 4K7, and 6K8).
- With 2 RS-485 ports for Keypads connection and extended connections.
- With PSTN port for alarm event report function, supporting CID (Contact ID).
- 3 telephone numbers for monitor station (PSTN), 8 telephone numbers for vocal message, and 8 telephone numbers for SMS.
- With GSM/GPRS network ports for events SMS reporting and remote control, events vocal message reporting by dialing and remote control, and mobile phone app connection ability when Ethernet connection is failed.
- With 10/100M self-adaptive Ethernet port.

- Supports abnormality alarm, including network disconnected alarm, PSTN fault alarm, tampering alarm, low battery alarm, battery loss alarm, power loss alarm, and keyboard faults alarm.
- In-field firmware upgradable.
- App-based system control through DMSS.

1.3 Terms and Definitions

Refer to the terms and definitions that are used in the Manual as below.

Table 1-1 Terms and definitions

Term	Definition
Area	The 8 Areas that can be armed.
Zone	Protection zones under Area.
Partition	The scope of Partition is larger than Zone and under Area.
Numeric key	Key 0–9 on the Keypad.
Function key	The other keys except Numeric keys, such as ESC and ENTER.
Key combination	[Total Fn] + Numeric key.
User Menu	Menus programmed by the User.
Installer Menu	Menus programmed by the TECHNICIAN.
Access Code	A specified code, from 4 to 6 digits, that allows the user to operate the Keypad.
TECHNICIAN	A person that is authorized to access the Installer Menu to program the system.
1EOL	The detector type can be NO or NC, and returns two status: Normal and Alarm (short circuit and broken circuit are considered to be Alarm status).
2EOL	The detector type can be NO or NC, and returns four status: Normal, Alarm, Tamper, and Short Circuit prevention.
3EOL	The detector type can be NO or NC, and returns five status: Normal, Alarm, Tamper, Anti-masking, and Short Circuit prevention.

2 Wiring and Installation

This chapter introduces the main ports, wiring connection, and installation of the Alarm Control Panel.

2.1 Dimension

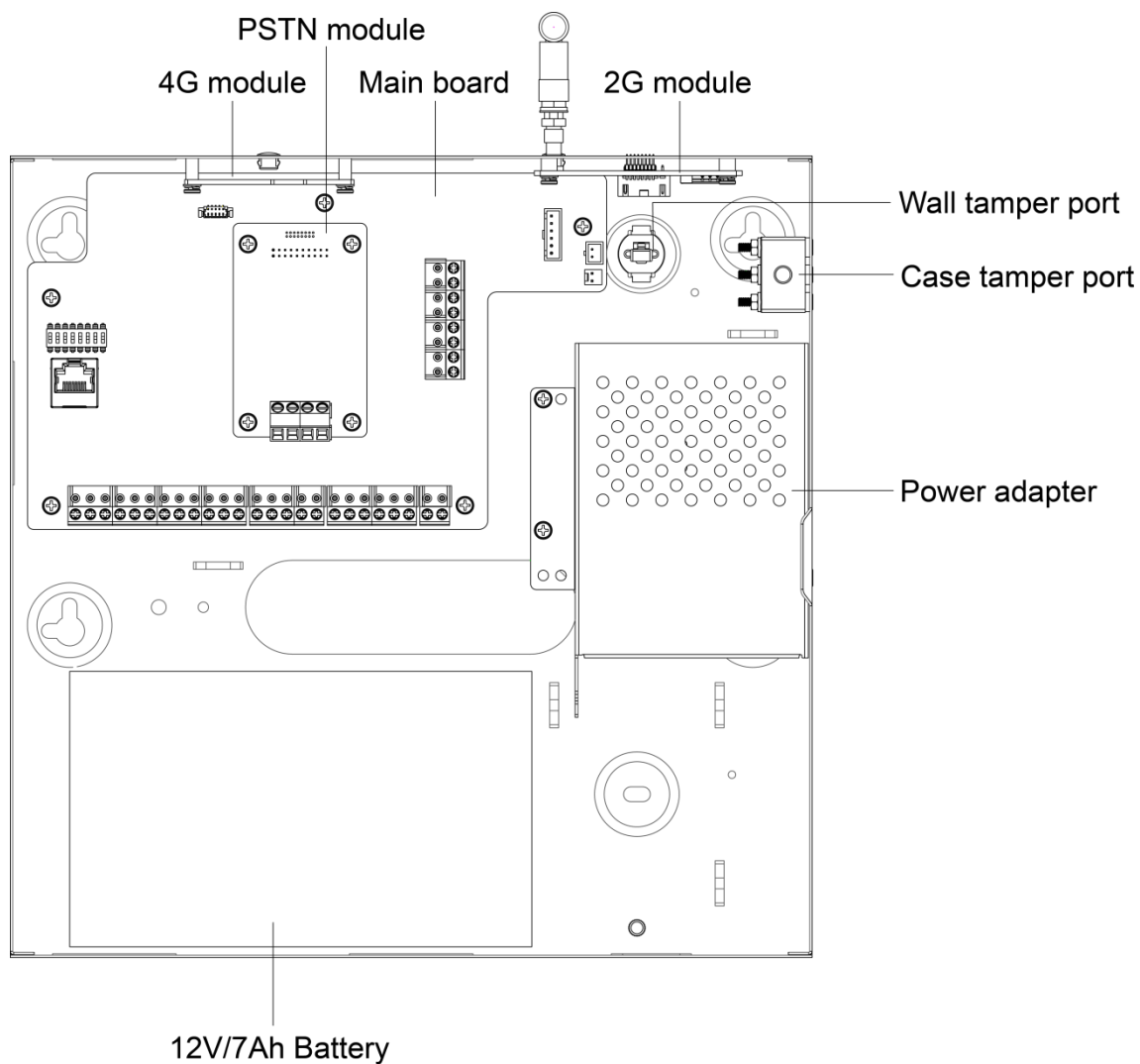Figure 2-1 Dimension of Control Panel (mm [inch])
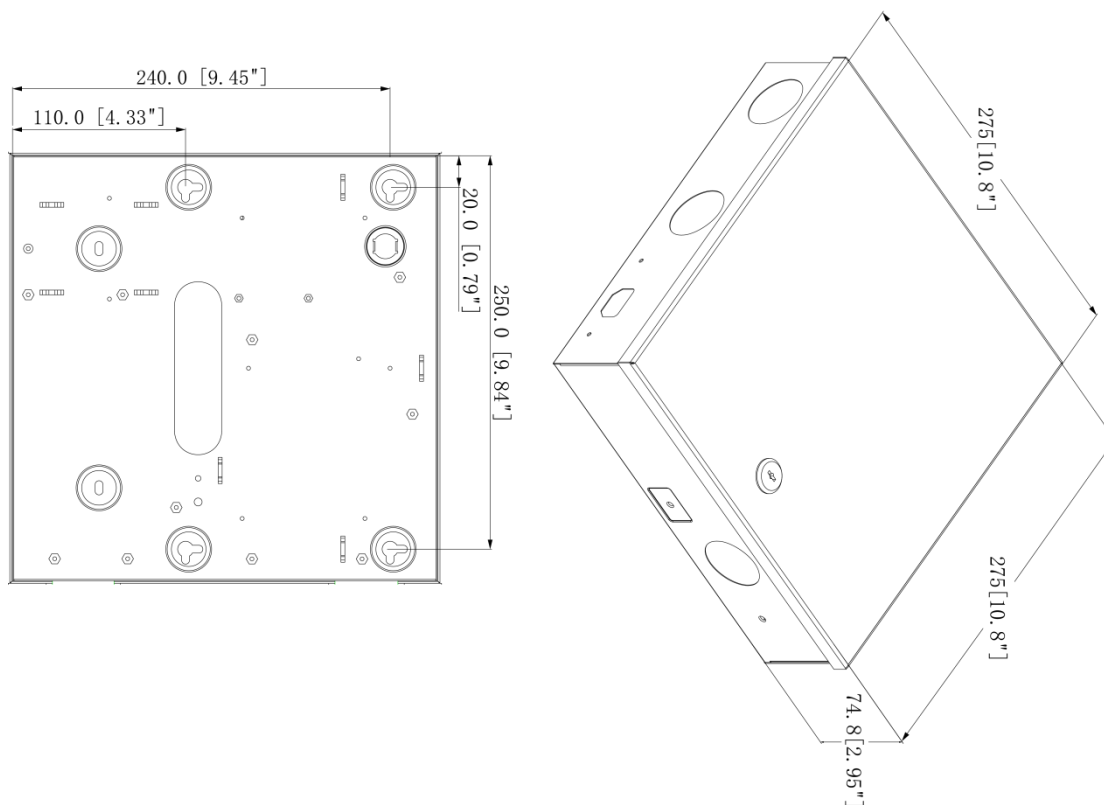
2.2 Main Board Ports

2.2.1 Overview

The PSTN module, 2G module, and 4G are not supplied with standard models, and you should purchase separately if needed.

Figure 2-2 Main board ports overview

PSTN module

4G module   Main board   2G module

Wall tamper port

Case tamper port

Power adapter

12V/7Ah Battery

2.2.2 Ports

⚠️**WARNING**

- Only the professionals should be assigned to install the Control Panel
- Do not operate on the structural components of the Control Panel when it is powered on.

Figure 2-3 Grand tour
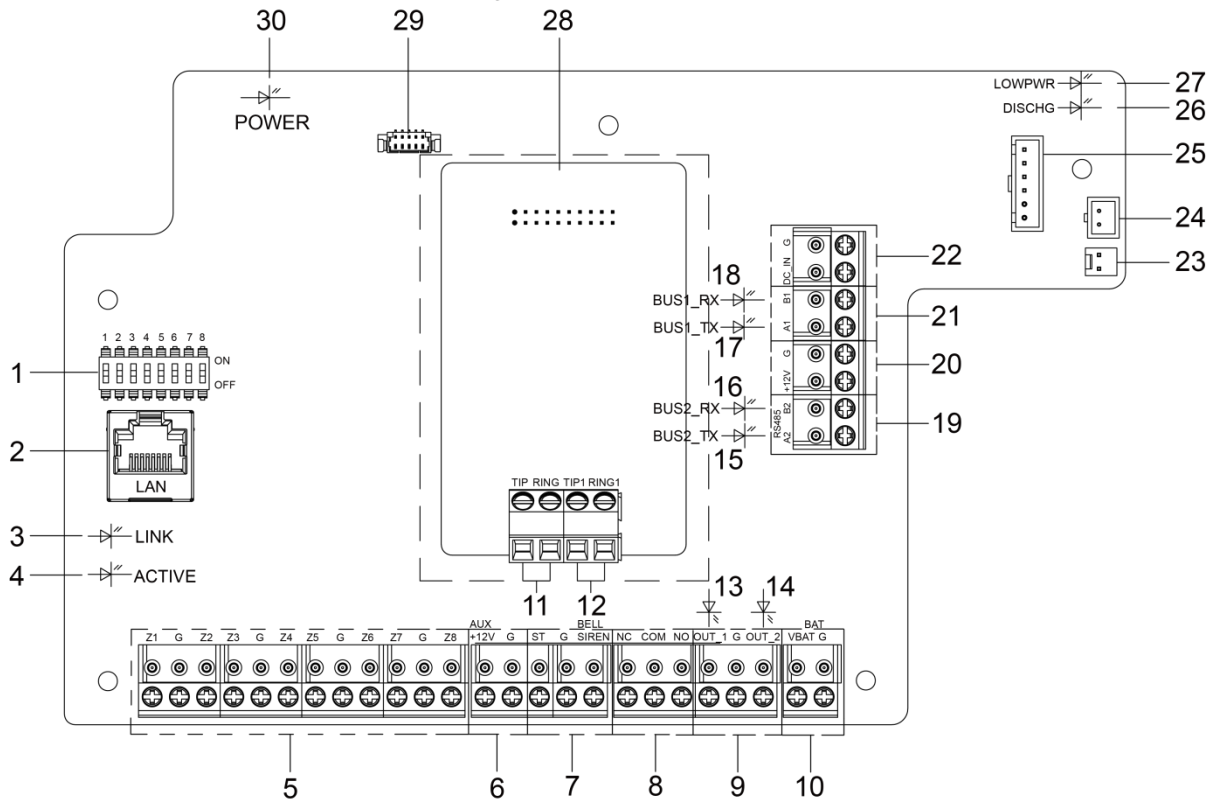
Table 2-1 Function introduction

No.	Name	Function
1	DIP switch	Restores the factory settings. For details, see "2.2.3 DIP Switch."
2	Network port	Connects to Ethernet port.
3	LINK indicator	Network indicator.
4	ACTIVE indicator	Network indicator.
5	Z1–Z8	Zone 1–Zone 8
	G	Ground.
6	+12V	Auxiliary power output 12V DC with 1000mA.
	G	Ground.
7	ST	Tamper port, and generally used as siren tamper.
	G	Ground.
	SIREN	Connects to Siren.
8	NC, COM, NO	Relay port. The maximum touch point load is 0.5A 125V AC/1A 30V DC
9	OUT_1, OUT_2	Alarm output driven by MOS.
	G	Ground.
10	VBAT	Positive pole and negative pole of battery. The negative pole

No.	Name	Function
		should receive ground connection.
	G	Ground.
11	TIP_O, RING_O	Telephone connection port
12	TIP_IN, RING_IN	Telephone line port
13	OUT_1 indicator	ON: OUT_1 is open OFF: OUT_1 is closed
14	OUT_2 indicator	ON: OUT_2 is open OFF: OUT_2 is closed
15	BUS2_TX indicator	Data transmitting indicator of the second group of RS-485 ports. ON: Transmitting is in process.
16	BUS2_RX indicator	Data receiving indicator of the second group of RS-485 ports. ON: Date receiving is in process.
17	BUS1_TX indicator	Data transmitting indicator of the first group of RS-485 ports. ON: Transmitting is in process.
18	BUS1_RX indicator	Data receiving indicator of the first group of RS-485 ports. ON: Date receiving is in process.
19	A2, B2	Connects to RS-485 expansion module.
20	+12V	Auxiliary power output 12V DC supplies power to the external devices such as detectors.
	G	Ground.
21	A1, B1	RS-485 port that connects to Keypad (maximum 8 Keypads).
22	DC_IN	Receives 14.5V DC power supply.
	G	Ground.
23	Case tamper port	The alarm is activated when the case is opened.
24	Wall tamper port	The alarm is activated when the case is detached from the wall.
25	2G module	Connects to 2G module.
26	Discharge indicator	ON: Battery is charging
27	Low power indicator	ON: Battery low power. $\square\square$ If power supplies normally, the indicator will not be ON in case of low battery.
28	PSTN	Connects to PSTN module.
29	4G module	Connects to 4G module.
30	Power indicator	ON: Power supply is in normal status.

2.2.3 DIP Switch

There are eight DIP switches on the Control Panel with different functions.

Figure 2-4 DIP switches on the Control Panel
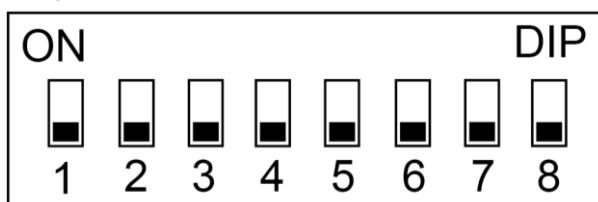
2.2.3.1 Functions

- DIP 1 and DIP 2: Reserved functions that might be developed in the future.
- DIP 3: ON represents Italian language, OFF represents English.
- DIP 4: Enables whether to report the siren tamper event and case tamper event. ON represents "NOT TO REPORT", and OFF (default setting) represents "REPORT ENABLED."
- DIP 5: Enables to return to the factory default settings (in conjunction with DIP 6).
- DIP 6: Enables to return to the factory default settings (in conjunction with DIP 5).
- DIP 7: Enables upgrading the Control Panel. OFF represents "NOT TO UPGRADE", and ON represents "UPGRADE ENABLED."
- DIP 8: Resets the factory default settings. Move it to ON, then after the rebooting is completed (RS-485 light blinks three times), move it to OFF.

2.2.3.2 Restoring Factory Default Settings

Preconditions

Reset of the Security code and the Supervisor code depend on the FACTORY RST parameter in the SYSTEM FUNCTIONS menu. By default, this parameter is set to PART, and with the PART setting, it is possible to reset the Security code and the Supervisor code. The FACTORY RST parameter can be set to PART, TOTL, or OFF.

- PART: The Control Panel is partially (Security code and Supervisor code) resettable and the IP address restores to the default, but the wireless codes of sensors and sirens are not cancelled.
- TOTL: Enables all the Control Panel parameters to be reset.
- NO: Prevents any restoration of factory settings.

Supervisor Code Reset

If the Supervisor code (factory default 1234) gets lost, and you do not have any other valid user codes, it will not be possible to enable the TECHNICIAN code that allows access to the Control Panel programming.

Therefore, in the TECHNICIAN menu programming, the FACTORY RST parameter in the SYSTEM FUNCTIONS menu must be set to PART or TOTL. Then you can follow the specified procedure to reset the Supervisor code.

Procedure

Step 1   To return the Control Panel to the factory default settings, set the DIP 5 and DIP 6 as below.

Table 2-2 Restoring factory default settings

DIP 5	DIP 6	Function

DIP 5	DIP 6	Function
OFF	ON	Security code reset
ON	OFF	Supervisor code reset (default 1234)
ON	ON	Total reset (depends on settings in SYSTEM FUNCTIONS menu)
OFF	OFF	Normal operation

Step 2   After setting DIP 5 and DIP 6, to take the setting effect, move the DIP 8 to the ON position. After rebooting is completed, the RS-485 light blinks three times. Then move the DIP 8 to the OFF position.
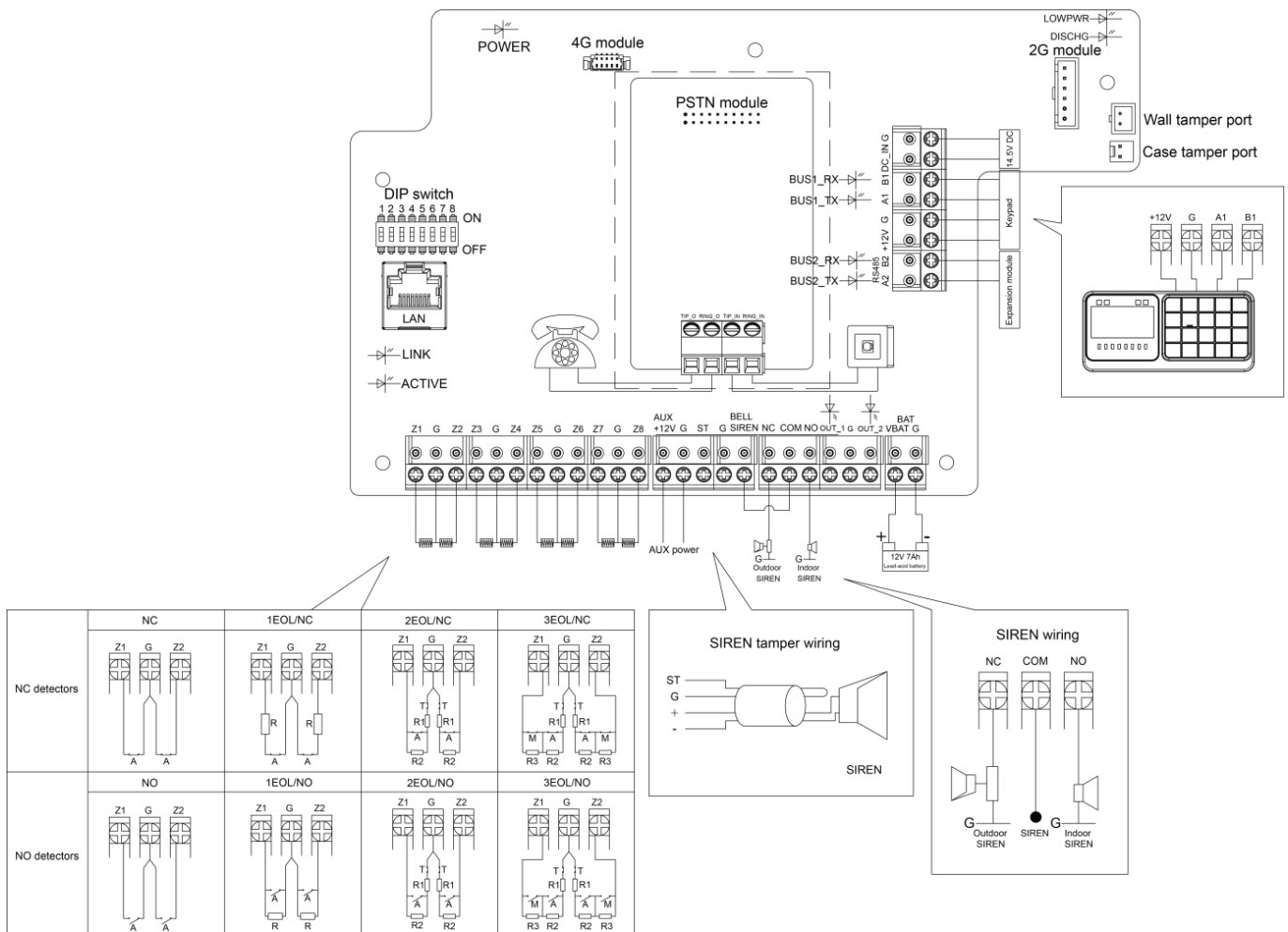
2.3 Wiring

Figure 2-5 Wiring

Figure 2-6 Wiring of detectors
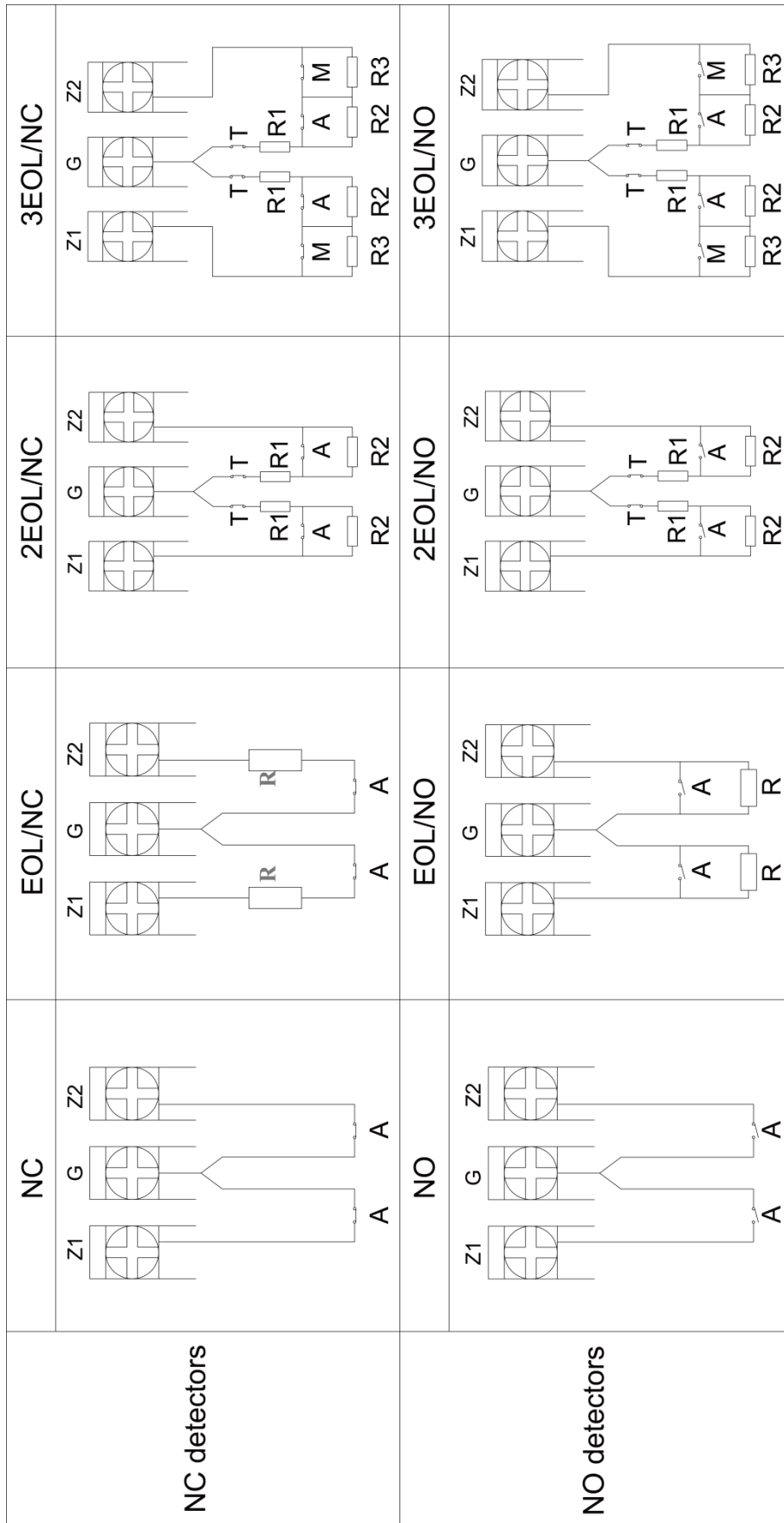
Figure 2-7 Keypad connection
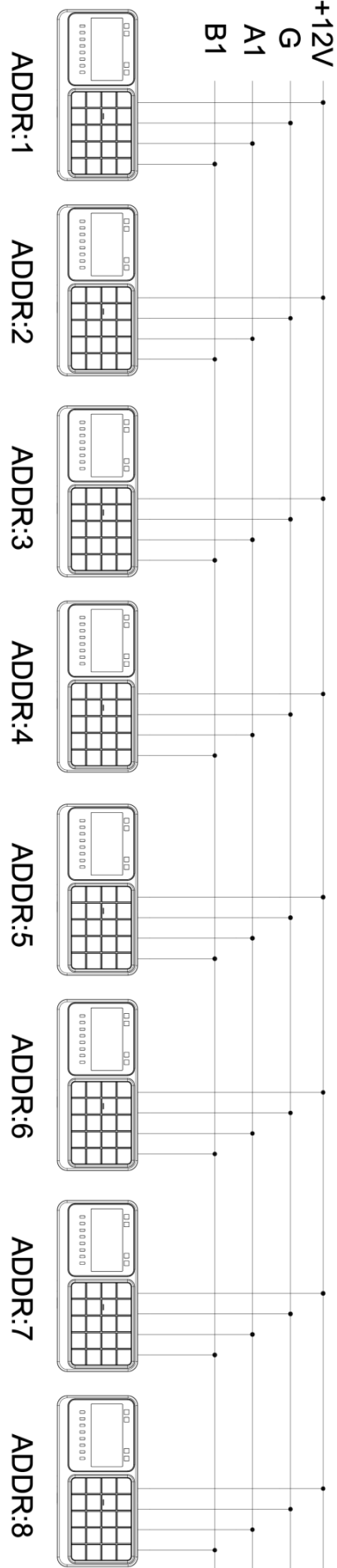
2.4 Installation

The Control Panel supports wall-mounting installation.

Figure 2-8 Control Panel installation
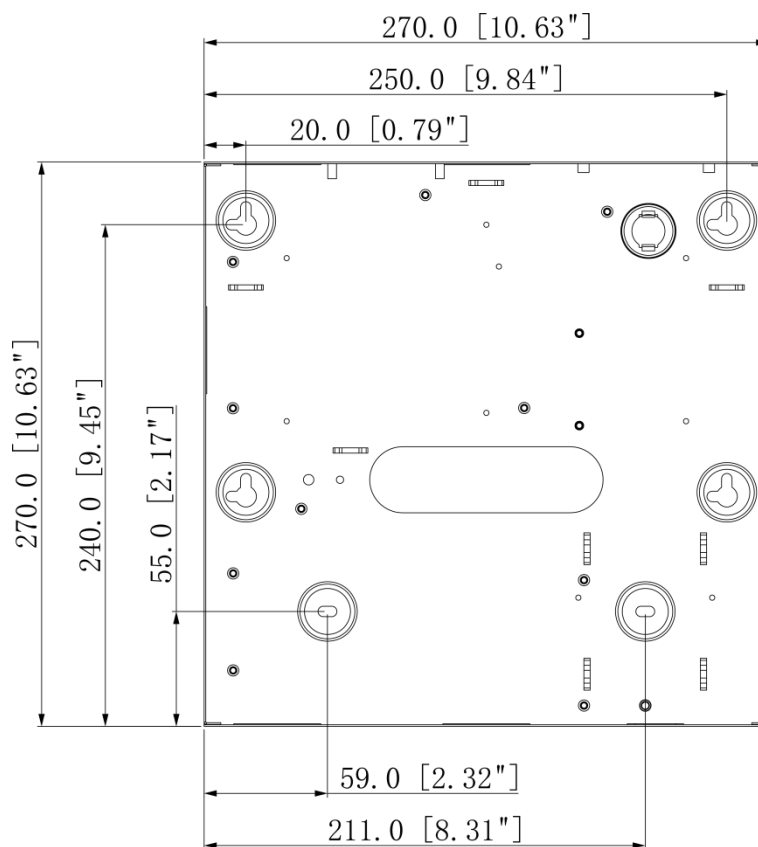
Step 1 Unpack the box and take out the expansion bolts and self-tapping screws.

Step 2 Drill screw holes on the mounting surface according to the dimensions as shown in Figure 2-8.

Step 3 Insert expansion bolts into the drilled screw holes, and then put in and fasten the self-tapping screws (leave the middle self-tapping screw unfastened).

Step 4 Hang the Control Panel to the screws and then fasten the middle self-tapping screw.

3 System Boot-Up

3.1 Setting Keypad Address

Every Keypad registered to the Control Panel must have a unique address. When replacing the Keypad, the new Keypad must use the same address as the previous Keypad.

Before powering on the system, set an address (range: 1–8) for the Keypad by DIP switches on the Keypad. The address value beyond the specified range is not acceptable.

The default Keypad address is 1.

The DIP switches 5–8 are reserved functions and might be developed in the future.

Table 3-1 DIP switch and keypad address

DIP switch	Keypad address	DIP switch	Keypad address
ON DIP 1 2 3 4	1	ON DIP 1 2 3 4	2
ON DIP 1 2 3 4	3	ON DIP 1 2 3 4	4
ON DIP 1 2 3 4	5	ON DIP 1 2 3 4	6
ON DIP 1 2 3 4	7	ON DIP 1 2 3 4	8

3.2 Booting up the Control Panel

Power on the Control Panel, and then the Keyboard registration is completed and the system enters into the normal working conditions within 75 seconds.

3.3 Booting up the Keypad

The Keyboard gets registered to the Control Panel within five seconds after it is powered on. Before registration, the Area 1–8 LED indicators glows and LCD display shows the Keyboard version information.

3.4 Factory Default Settings

⚠️

ZONE is N.O. type by default.

Access Codes

- TECHNICIAN: 1961
- Supervisor User: 1234
- Access is required for Arming: Yes

Network

Default IP Address: 192.168.1.108

Others

- 2G/4G is enabled by default
- P2P is disabled by default. The DMSS app cannot access the Control Panel.
- REMOTE CONF is ON by default. The Alarm Configuration Tool can connect to the Control Panel.

3.5 Lead-acid Battery

3.5.1 Protection for Battery Over-Discharge

When the power supply is not from main power but from the battery, the Control Panel automatically turns off when the battery is consumed up to 10.8V. Before the main power restarts supplying power, the Control Panel will not repeatedly reboot because the rebooting will cause damage to the battery due to over-discharging.

3.5.2 About the Battery Voltage Status

The lower voltage refers to the situation when the battery voltage is lower than 11.8V. When the battery is full, the voltage is 13.8V.

4 About the Keypad

This chapter introduces the dimension, main functions, indicators, keys operations, and installation of the Keypad.

4.1 Dimension

Figure 4-1 Dimension (mm [inch])
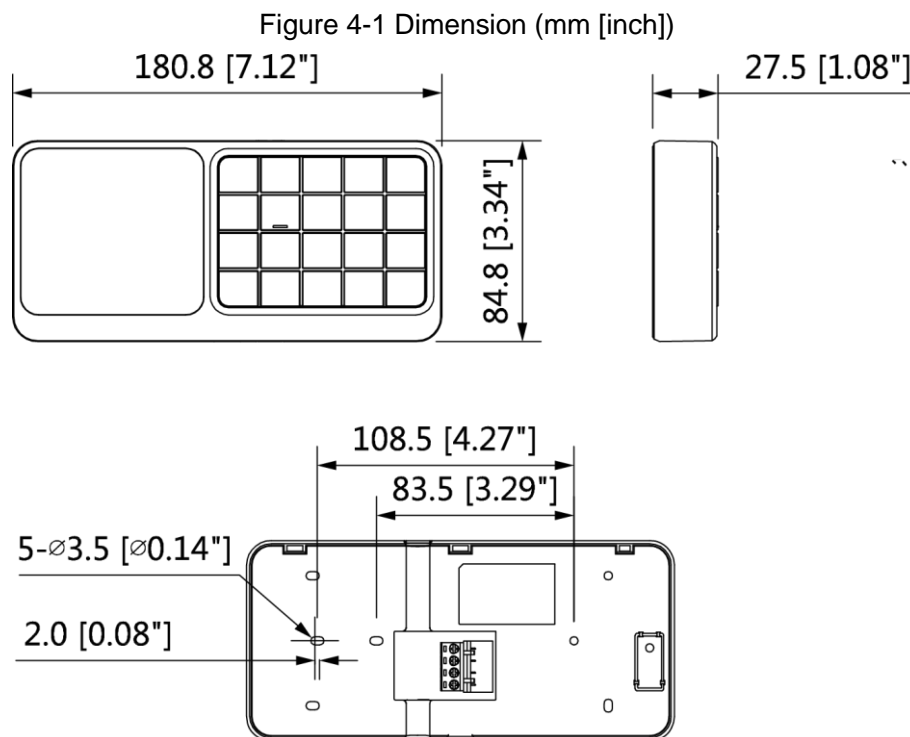
4.2 The Grand Tour

Figure 4-2 Grand tour
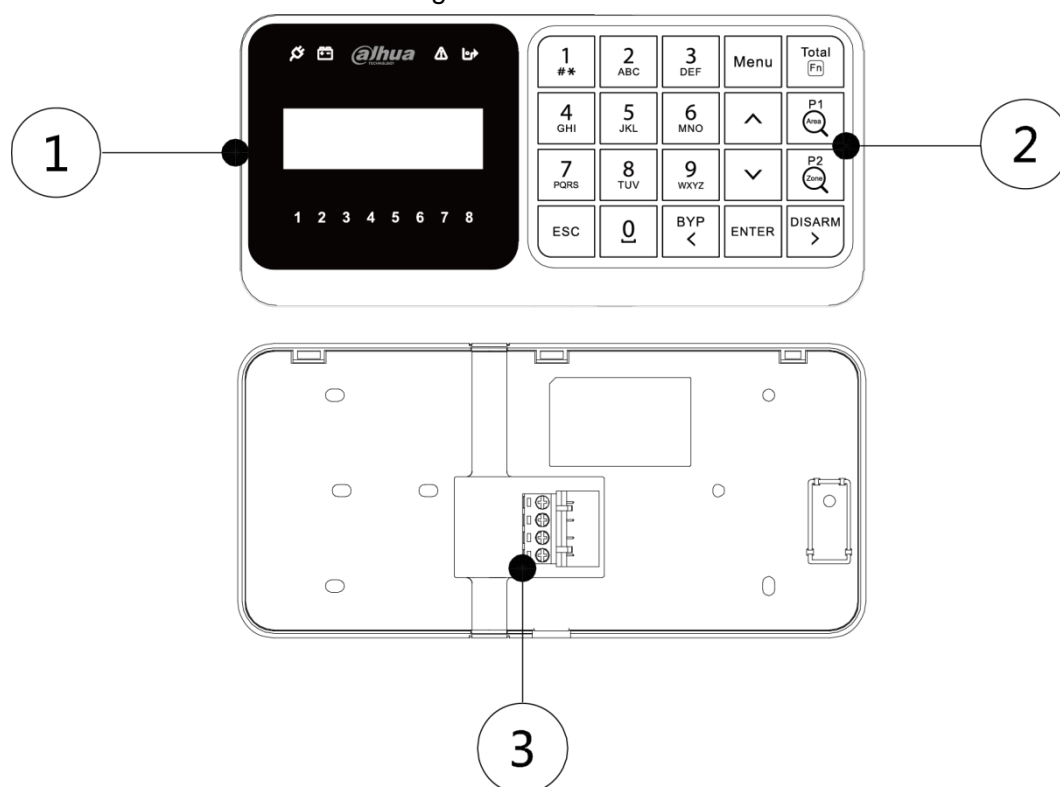
Table 4-1 Functions introduction

No.	Name	Function
1	LCD display	Show all the system information including management and programming. For details, see "4.5 Main Interface of LCD Display."
	LED indicators	Give information about power status, battery status, failures, bypass, and alarm status of each Area. For details, see "4.4 LED Indicators."
2	The keys	The Keypad keys can do numerous functions. Each key has specific function. For details, see "4.3 The Keys."
3	Ports	● +12V: Supplies 12V DC. ● GND: Ground. ● RS485_A1 ● RS485_B1

4.3 The Keys

The Keypad keys can do numerous functions. Each key has a specific function as explained below.

Figure 4-3 The keys
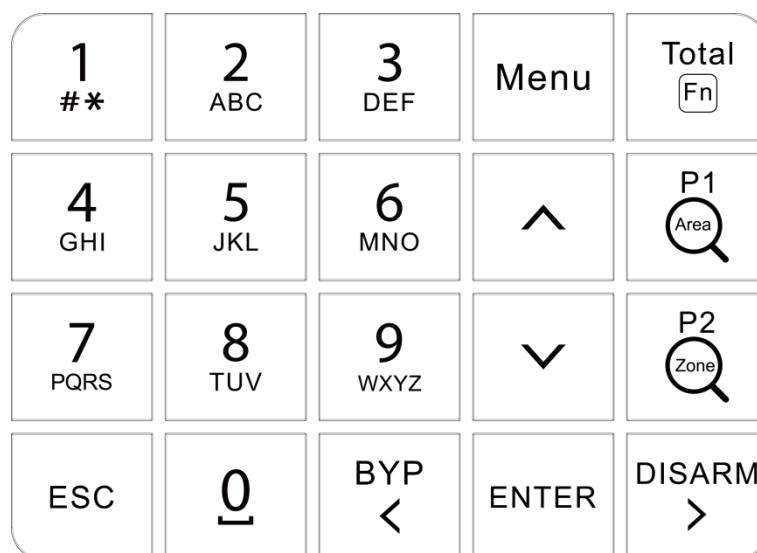
4.3.1 Numeric Keys (from 0 to 9)

The numeric keys give the functions as below:

- Type in access codes as required to access programming (TECHNICIAN or user) or to arm/disarm.
- The keys from 1 to 8 represent eight zones. When the zone is not ready, you can press and hold the key to show the NOT READY details, and when the key LED light slowly flashes or quickly flashes, press and hold the key to show the alarm details.
- The keys from 0 to 8 can be used to type in or edit alphanumeric descriptions.
- Press 1 to type in "#", "*", and "." . Press 0 to type in space.

4.3.2 Other Function Keys

Table 4-2 Other function keys

Key	Function
ESC	Exit from the current menu or return to the previous menu.
BYP <	- Move the pointer to the left when you edit. - Press and hold [BYP <] to delete text. - Bypass the Zones as below: 1. Type in the access code. 2. Press [BYP <]. The interface for setting the bypass Zones is shown. 3. Press the corresponding numeric key of the Zones that you want to bypass. For example, if you want to bypass Zone 12, press Key 1 and then press Key 2. 4. Press Enter to confirm the setting.
Menu	Enter the User Menu or the Installer Menu.

Key	Function
	● Quick input. For example, if your type in 130, press [Menu] immediately to confirm the input, otherwise the input will become invalid. ● Quick jump. For example, if there are 300 logs and you want to view the 200th log, type in 200, and then press [Menu] immediately to jump to the 200th log page.
[∧] [∨]	● Increase or decrease numbers. ● Switch options on the interface. ● Page turning.
[ENTER]	● Enter the sub menu. ● Switch to the next menu of the same level in editing mode. ● Confirm the input.
[Total Fn]	● Arm the whole Area. ● Rapid Total Arming to the whole Area. ● Give combination operations. For details, see Table 4-3.
[P1 Area]	● Arm the PARTITION 1. ● Rapid Arming the PARTITION 1. ● Give combination operations. For details, see Table 4-3.
[P2 Zone]	● Arm the PARTITION 2. ● Rapid Arming the PARTITION 2. ● Give combination operations. For details, see Table 4-3.
[DISARM >]	● Disarm. ● Move the pointer to the right when you edit number or letter.

4.3.3 Key Combination Operations

How to press key combination: Press in sequence.

For example, if you need to press [Total Fn] + 0, press [Total Fn] first, and then press 0.

Table 4-3 Key combinations

Key	Function
[Total Fn] + 0 (F0)	On the main interface, press [Total Fn] + 0 (F0) to show the GSM and wireless signal strength. The GSM signal is shown with eight bars, and the wireless signal is shown with four bars. Press [Total Fn] + 0 (F0) again to return to the main interface. Without pressing [Total Fn] + 0 (F0), the system automatically returns to the main interface in 2 min if no operations were performed.

Key	Function
Total Fn + 1 (F1)	• Panic Activation (silent activation or with sirens and Keypad buzzer) • On the menu of ZONE TROUBLES, ZONE MANAGER, and CHIME ZONES, press Total Fn + 1 (F1) to show the Area selection interface where can select the Areas within which to do the searching and filtering. • On the OUTPUTS menu, press Total Fn + 1 (F1) to do a test to the output circuit, and Active is shown.
Total Fn + 2 (F2)	• Robbery Activation (silent activation) 📖 There is no response on the interface but this event is recorded in the log. • On the menu of ZONE TROUBLES, ZONE MANAGER, and CHIME ZONES, you can select the Zone on which you can do the searching and filtering. • Edit text on the interfaces such as description of module, zone, user code, output, timer and display. • Edit telephone number, SMS number, and SIM number on the TEL NUMBER menu, and PSTN number on MONITOR STATION menu.
Total Fn + 3 (F3)	• Medical Activation (with Keypad buzzer) • On the WALK TEST menu, switch between individual test and multiple test. • On the TEL NUMBER menu, start a phone call test or message test.
Total Fn + 4 (F4)	• Fire Alarm Activation (with Keypad buzzer and siren) • On the TEL NUMBER menu, stop a phone call test.
P1 Area + (1–8)	Query which zones under the specified Area.
P2 Zone + (01–99)	Query which Areas the specified zone belongs to.

4.4 LED Indicators

There are 12 LED indicators on the Keypad that respectively gives information about power status, battery status, faults, bypass, and alarm status of each Area.

4.4.1 Overview

The Table 4-4 shows the icon, color, and meaning of each LED indicator.

Table 4-4 LED indicators overview

Icon	Color	Meaning
🔌	Green	Power status
🔋	Green	Battery status

Icon	Color	Meaning
⚠	Red	Fault status
↦	Green	Bypass
1 2 3 4 5 6 7 8	Red	Alarm status of eight Areas

4.4.2 Status

Power LED Indicator (🔌)

- **Glows**: The system operates with normal power supply.
- **Slowly flashes**: The system does not operate normally due to a lack of power supply, and therefore a check must be given.
- **Quickly flashes**: The system is in installer programming mode or in the Walk Test Zone mode. If a lack of power supply occurs when the system is in either of these two modes, the LED indicator also quickly flashes.

Battery LED Indicator (🔋)

📖

If power supplies normally, the indicator will not be ON in case of low battery.

- **Slowly flashes**: Battery defects such as low power and powering off quickly.
- **Off**: Battery operates normally.

Fault LED Indicator (⚠)

- **Glows**: System faults (main power loss, battery low voltage or missing), and you can view the details on the SYSTEM TROUBLES menu of User Menu.
- **Slowly flashes**: Tampering is happening to the Control Panel, siren, or Keypad.
- **Off**: The system operates normally.

Bypass LED Indicator (↦)

- **Glows**: There is at least one bypassed zone.
- **Off**: There is no bypassed zone.

1-8 LED Indicators

There are eight LED indicators located below the LCD display represent the status of the Areas. From left to right they show the alarm status of Area 1 to Area 8. See Figure 4-4.

Figure 4-4 Area status LED indicators

1 2 3 4 5 6 7 8

- **Glows**: The Area is armed.
- **Slowly flashes**: The alarm is in progress or the alarm has occurred
- **Quickly flashes**: The Area is in alarm condition and the linkage is in progress. This condition disappears when the Area is disarmed. The indicator starts to flash slowly and is cancelled when a valid user code is typed in again followed by the command DISARMED.
- **Off**: The Area is disarmed.

By pressing and holding the number key corresponding to each Area for three seconds, you can view where exactly the alarm is in the Area. For example, when the Area 5 indicator quickly flashes, press and hold key 5, then * shows where the alarm is located exactly. This operation can only view the Zone-related alarms, but cannot view the system faults alarms.

4.5 Main Interface of LCD Display

The Keypad is equipped with a back-lit LCD display that shows all the system information including management and programming.

When the display is off and everything is working properly, the first line shows the date and time, and the second line contains a series of data that represent Area in use in the system.

Figure 4-5 Example of Keypad with 8 Areas assigned
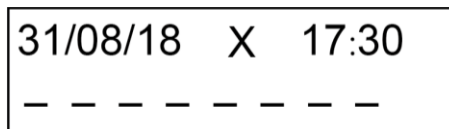
Each dash can represent a different meaning according to the event activated by the Area. Refer to Table 4-6 for the event description and symbol of each event.

Symbols on the First Line of Display

Table 4-5 Symbols on the first line of display

Symbol	Meaning
31/08/18	Day/Month/Year
x	**H**: Holiday period active **T**: Telephone dialer calling **P**: Disarming period for Patrol user
17:30	Hour : Minutes
▯▯▯▯...	Level of GSM signal. Each ▯ is equivalent to one bar, and maximum eight bars.

Symbols on the Second Line of Display

Table 4-6 Symbols on the second line of display

Symbol	Event
Upper case **T**	Total Arming

Symbol	Event
1	Partition Arming 1
2	Partition Arming 2
Upper case **P**	Partition 1 + Partition 2 arming
Lower case **t**	Total Forced Arming
Upper case **A**	Alarm
<	Entry delay time
>	Exit delay time
*	Area not ready (Zones open)
!	Alarm delay

Alarm Message Display

During an alarm, the main interface shows the general reason description for the alarm in the first line, for example, ZONE ALARM. The alarm message remains displayed for the entire duration of the alarm.

To verify the event that caused the alarm, you can press and hold the corresponding numeric key (from 1 to 8) to show the event details. The display will show the Zone or the event that triggered the alarm.

To examine whether any other Zones are involved in the alarm, press [^] and [v] to scroll up and down the page. Normally, the display shows the last Zone affected by the event.

At this moment, if there is a telephone call in progress, when you type in the user code and then press [DISARM >], the display shows the question: `31/08/18  T  17:30  STOP TELEPHONE?`. Press [ENTER] again to confirm the stopping of

telephone call, or press [ESC] to return to the main interface and not to stop telephone call.

Display of GSM Signal Strength

By pressing [Total Fn] + 0 (F0), the display shows the value of GSM signal strength in the first line of main

interface. The value persists for about two minutes, or you can press [Total Fn] + 0 (F0) again to exit. You can also monitor the GSM signal strength during a call in progress.

- None ⃞: No GSM signal.
- One ⃞: Minimum GSM signal
- Eight ⃞: Maximum GSM signal

27

4.6 Installation

Figure 4-6 Keypad installation
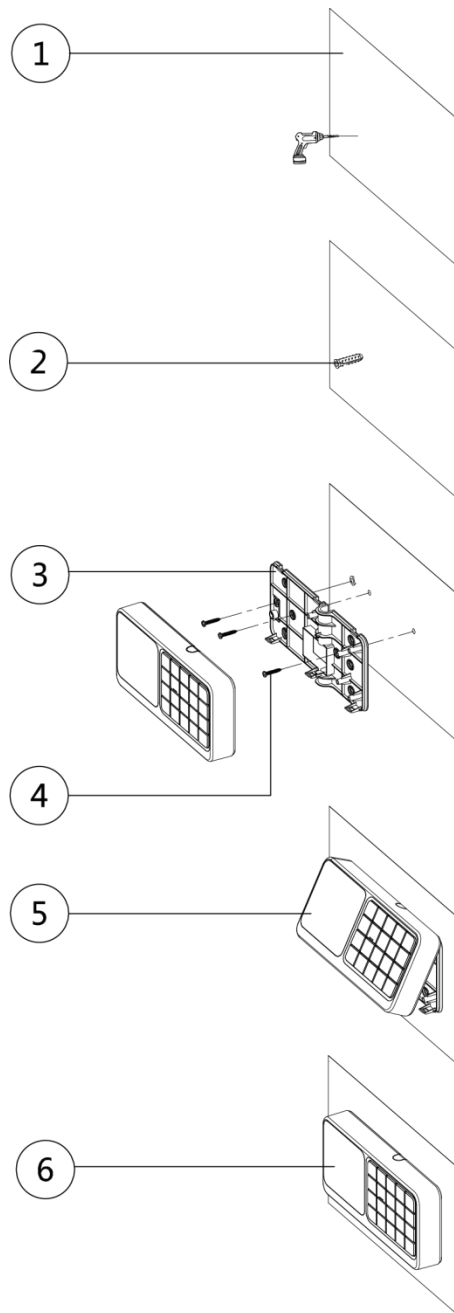
Step 1 Loosen the screws on the back of Keypad to remove the rear panel.

Step 2 Pull the cables out of the rear panel.

Step 3 Drill a hole on the wall①, and put the expansion bolt② through the rear panel to fix it onto the wall.

Step 4 Put the self-tapping screws④ into the other installation holes on the rear panel③ and then fasten screws.

Step 5 Connect the cables to the ports on the main board.

Step 6 Align the clamps on the top of main board with the ones on the rear panel⑤, and then slowly attach the main board to the rear panel. The installation is completed⑥.

5 Installer Menu

This Chapter describes the menu operations included in the Installer Menu.

5.1 Entering the Installer Menu

To enter the Installer Menu, the TECHNICIAN must be authorized from the User Menu.

The default TECHNICIAN code for entering the Installer Menu is 1961.

Step 1   Type in the access code (Default Supervisor code1234), and then press [Menu].

The ZONE TROUBLES menu is shown on the LCD display. See Figure 5-1.

Figure 5-1 Zone troubles

```
⟨01⟩
ZONE TROUBLES
```

Step 2   Press [^] and [v] to scroll up and down until you reach the TEHCNICIAN menu. See Figure 5-2.

Figure 5-2 Technician

```
⟨07⟩
TECHNICIAN
```

Step 3   Press [ENTER].

Three beeps confirm the TECHNICIAN code operational and authorized for a defined period.

Step 4   Press [ESC] to exit from the TECHNICIAN menu.

A message shows "EXIT FROM MENU" is shown.

Step 5   Press [ENTER] to return to the main interface.

Step 6   Type in TECHNICIAN code (Default 1961) and then press [Menu] to enter the Installer Menu.

The KEYPADS menu is shown. See Figure 5-3.

Figure 5-3 Keypads

```
⟨01⟩
KEYPADS
```

5.2 Installer Menu Options

The Installer Menu consists of many submenus for management and programming operations as below:

- KEYPADS
- COMMUNICATOR
- POWER SUPPLIES
- WIRED ZONES
- IN AND ZONES
- OUTPUTS
- AREAS
- SYSTEM FUNCTIONS
- SYSTEM TIMING
- SYSTEM TIMERS
- ACCESS CODES
- DATE/TIME
- HOLIDAY
- TEL NUMBER
- REMOTE SERVICE
- MONITOR STATION
- VOCAL MESSAGES
- SMS MESSAGES
- DIGITAL FORMAT
- TCP/IP NETWORK
- LOG EVENT
- 2G/4G MODULE
- LANGUAGE

5.3 KEYPADS

Step 1 After entering the Installer Menu, on the KEYPADS menu, press [ENTER] to enter the programming mode.

Step 2 Press [^] and [v] to select which keypad you want to program, and then press [ENTER] to enter the programming mode.

By pressing [Total Fn] + 2, you can enter the EDITING mode for changing the description of Keypad.

Step 3 Configure the settings for the selected keypad. See Table 5-1.

Press [^] and [v] to alter the options. Press [ENTER] to confirm the setting and move to the next submenu.

Table 5-1 Keypads programming settings

Submenu	Setting
STATE	- ACTIVE: The keypad is operating. - ISOLATE: The keypad is out of use. For example, when the keypad has technical problem or needs maintenance.

Submenu	Setting
AREA	Establish on which Areas each keypad can control. Area 1 to Area 8 can be assigned individually or in combination. To assign or remove Areas from the keypad, press the corresponding key (1 to 8) and then press ENTER. The number of the assigned area appears on the programming line to confirm that the selection was successful. The number of the assigned area disappears from the programming line to confirm that the de-selection was successful.
SHOW	Select which areas (except those not assigned) status can be shown on the LCD display. This function is used to display the status of the areas without actually carrying out any operations on them.
EVENTS	Select which Areas the alarm events (Panic, Robbery, Fire, Medical, and Duress) are sent to by pressing the corresponding key. Duress can be sent by direct key or entry of the Duress code. If no area is selected, the events described above cannot be activated. To assign or remove Areas from the keypad, press the corresponding key (1 to 8) and then press ENTER. The number of the assigned area appears on the programming line to confirm that the selection was successful. The number of the assigned area disappears from the programming line to confirm that the deselection was successful.
TAMPER	Determines to which Areas the tampering with the displayed Keypad (opening of the case of anti-breach materials) must be sent. If no area is assigned, tampering with the Keypad will not activate any acoustic alarm. To assign or remove Areas from the Keypad, press the corresponding key (1 to 8) and then press ENTER. The number of the assigned Area appears on the programming line to confirm that the selection was successful. The number of the assigned Area disappears from the programming line to confirm that the deselection was successful.
TROUBLE	Select which Areas the alarm from a bus communication fault between the keypad and the Control Panel must be sent to. In practice, an acoustic alarm sounds when there is a loss of communication with the keypad (interruption in communication between the keypad and the Control Panel). If no Area is assigned, a keypad bus failure will not activate any acoustic alarm. To assign or remove Areas from the Keypad, press the corresponding key (1 to 8) and then press ENTER. The number of the assigned Area appears on the programming line to confirm that the selection was successful. The number of the assigned Area disappears from the programming line to confirm that the deselection was successful. In the SYSTEM FUNCTION menu, you can then assign TAMPER or TROUBLE type alarms to a specific sound mode (BUZZER, SIREN, both or SILENT).

Submenu	Setting
RAPID	Select which areas to adopt rapid arming without entering the access code. Rapid arming can be allocated to one or more Areas from this keypad.
ARMING	Press the number of the Area to enable or disable the Area. Press ENTER to continue.
FORCED ARM	After at least one Area is selected, the next programming steps ARMING (DELAYED or IMMEDIATE) and FORCED ARM (YES or NO) will be shown. Press and hold [Total Fn] for three seconds to prompt rapid arming.
BUZ. ON/OFF	Enable or disable the keypad buzzer.
BUZ. ENTRY	Enable or disable the keypad buzzer for the entry delay.
BUZ. EXIT	Enable or disable the keypad buzzer for the exit delay.
BUZ. ALARM	Enable or disable the keypad buzzer for the sound of alarm.
BUZ. CHIME	Enable or disable the keypad buzzer for the sound of the CHIME alarm event.
KEYPAD BEEP	Enable or disable the beep when the keypad keys are pressed.
BACKLIGHT	Enable or disable automatic backlight illumination in the event of an alarm or in the Entry Delay and Exit Delay status.
BUS ERRORS	Show the communication errors that have occurred between the keypad and the Control Panel.

Step 4 Press [ESC] to return to the keypads selection menu.

Then you can continue with programming other keypads, or press [ESC] to return to the KEYPADS menu from where you can press [^] and [v] to move to the next menu or press [ESC] to exit from the Installer Menu.

5.4 COMMUNICATOR

Step 1 After entering the Installer Menu, press [^] and [v] to scroll up and down until you reach the COMMUNICATOR menu. See Figure 5-4.

Figure 5-4 Communicator

⟨02⟩
COMMUNICATOR

Step 2 Press [ENTER] to enter the programming mode.

Step 3 Configure the settings. See Table 5-2.

Press $\boxed{\wedge}$ and $\boxed{\vee}$ to alter the options. Press $\boxed{\text{ENTER}}$ to confirm the setting and move to the next submenu.

Table 5-2 Communicator programming settings

Submenu	Setting
PRIORITY	Set the call mode to PSTN.
ATTEMPS	Set the maximum number of call attempts that the Communicator will make to the same telephone number. It is possible for the called user to block the entire call cycle or only calls to their number before the maximum number of attempts allowed for in this programming step is reached (see *User Manual*).
PSTN TROU	Set which Areas the PSTN line trouble must be sent to.
GSM TROU	Set which Areas the GSM trouble must be sent to.
SIM TYPE	If GSM module is installed, you need to define the SIM type provider that your use. ● CONTRACT: SIM card with regular contract. ● OTHER: Rechargable prepaid SIM card.
OPERATOR NUM	Set the Operator number that receives the SIM card balance information. 📖 This parameter can be set only when the SIM TYPE is set to OTHER.
SMS INSTRUCTION	Set the command that can be used to check the SIM card balance. 📖 This parameter can be set only when the SIM TYPE is set to OTHER.

Step 4 Press $\boxed{\text{ESC}}$ to return to the COMMUNICATOR menu.

Then you can press $\boxed{\wedge}$ and $\boxed{\vee}$ to move to the next menu or press $\boxed{\text{ESC}}$ to exit from the Installer Menu.

5.5 POWER SUPPLIES

Step 1 After entering the Installer Menu, press $\boxed{\wedge}$ and $\boxed{\vee}$ to scroll up and down until you reach the POWER SUPPLIES menu. See Figure 5-5.

Figure 5-5 Power supplies

```
〈03〉
POWER SUPPLIES
```

Step 2 Press $\boxed{\text{ENTER}}$ to enter the programming mode.

Step 3 Select which Areas the battery alarm event must (such as main power loss, battery low voltage or missing) be sent to.

Step 4 Press [ESC] to return to the POWER SUPPLIES menu.

Then you can press [^] and [˅] to move to the next menu or press [ESC] to exit from the Installer Menu.

5.6 WIRED ZONES

Step 1 After entering the Installer Menu, press [^] and [˅] to scroll up and down until you reach the WIRED ZONES menu. See Figure 5-6.

<p align="center">Figure 5-6 Wired zones</p>

<p align="center">
⟨04⟩
WIRED ZONES
</p>

Step 2 Press [ENTER] to enter the programming mode.

📖

By pressing [Total Fn] + 2, you can enter the EDITING mode for changing the description of wired zone.

Step 3 Press [^] and [˅] to select the wired zone that you want to configure, and then press [ENTER].

Step 4 Configure the settings for the selected wired zone. See Table 5-3.

<p align="center">34</p>

Table 5-3 Wired zone setting

Submenu	Setting
STATE	- ACTIVE: This wired zone is fully operational. - ISOLATE: This wired zone is programmed but permanently bypassed from the system. - TEST: This wired zone is operational but does not generate alarms. - OFF: This wired zone is not used.
TYPE	You can set the zone for the most suitable type for the installation. - INSTANT: The zone reacts to the intrusion immediately without waiting for any delay period. - ENTRY 1 DELAY: The zone reacts after the delay 1 period is set in the AREAS menu. - ENTRY 2 DELAY: The zone reacts after the delay 2 period is set in the AREAS menu. - Path: The zone triggers an immediate alarm if it is the first affected by an intrusion. However, the delay follows for the Area to which it belongs. If a delay 1 Zone is the first affected, Path indicates that it is a Zone will not trigger an immediate alarm. - EXIT END: The EXIT END termination zone is used when you want to terminate an output countdown before it ends. This is very useful when it is unable to establish an output path with a fixed period, you can set it very high then terminate. For example, by closing the door on which a contact is mounted and programmed as an output terminator, the terminator can also act as a button. After arming successfully, the Zone's Entry Delay is Entry 1 Delay. 24H: The 24-hour zone is always active regardless of the area to which it is assigned. This setting is used for anti-opening or high-security protective measures. - FIRE: The fire zone is used when you also want to install smoke detector or buttons within the alarm system, If you program in the fire zone, it will activate the fire alarm and pre-alarm outputs for the area to which it belongs. The fire alarm period set in the SYSTEM TIMING menu will then follow and it will never affect intrusion alarms. If it is programmed with single or double balancing, the tamper will be read and managed as a FIRE TROUBLE. - PANIC: The panic zone is active for 24 hours a day and generates a sound or silent alarm depending on the settings input in the SYSTEM FUNCTIONS menu. Panic outputs are activated for the area to which the setting is assigned. When a panic zone activates, the display shows "panic alarm." - ROBBERY: The zone is active for 24 hours a day and generates a silent alarm. The hold-up outputs are activated for the area to which the setting is assigned. The LCD display does not show the alarm and no LED flashes. - MEDICAL: The medical zone is active for 24 hours a day and always generates a sound alarm by means of a keypad buzzer only. It

Submenu	Setting
	activates the help outputs for the area to which the setting is assigned. When it is in an alarm state, the LCD display shows MEDICAL ALARM. ● Key: The key type zone is used as an auxiliary command to arm/disarm one or more areas. For details, see Key Type Zone.
TERMINATION	Each wired zone can be connected according to seven different criteria: ● N.O., N.C: Select N.O or N.C depends on the output type of detectors. For example, if the output of detector is set to N.O., then you should select N.O. ● 1EOL, 2EOL, 3EOL: For definition, see "1.3 Terms and Definitions." For wiring, see Figure 2-6. ● INERTIAL: If INERTIAL is selected, the level of sensitivity must be set. The range is 20ms–5020ms, and the detector type can be N.O. or N.C. ● IMPULSE: If IMPULSE is selected, the times of impulse triggered and impulse time must be set. The times range is 2–15. For example, if you set range to be 5, the triggered time is set to be 000.01, this setting means the alarm is triggered for 5 times within 1 second. The detector type can be N.O. or N.C.
AREA	Each wired zone can be assigned to one or more areas (1 to 8). The areas can be assigned in individual or combined mode, In the case of multiple areas, the zone is linked to them in OR mode or arms when one of them is armed and disarms when all of them are disarmed. To assign or remove Areas from the Keypad, press the corresponding key (1 to 8) and then press ENTER. The number of the assigned Area appears on the programming line to confirm that the selection was successful. The number of the assigned Area disappears from the programming line to confirm that the deselection was successful. For more details, see "5.9 AREAS."
BYPASS	Each wired zone can be programmed so that it is excludable by the User or not. ● NO: Establishes that the wired zone cannot be bypass by the User. ● TEMPORARY: Establishes that the wired zone can be bypass but, when the area to which it belongs is disarmed, it is automatically re-included. ● PERMANENT: Establishes that the wired zone can be bypass and does not re-arm automatically. Re-inclusion must be performed manually as described in the ZOME MANAGER of User Menu.
PARTITION1	Each individual wired zone can be assigned for Partition 1 type arming. If this option is set to YES, the wired zone will be involved in the Partition 1 arming of the areas which it belongs to.
PARTITON2	Each individual wired zone can be assigned for Partition 2 type arming. If this option is set to YES, the wired zone will be involved in the Partition 1 arming of the areas which it belongs to.
AUTO BYPASS	Each individual wired zone can be programmed to be automatically excluded or not when the Area is armed if the wired zone is not ready (for example, an open window).

Submenu	Setting
	• NO: Establishes that the wired zone is not automatically excludable (it blocks the arming of the Area which it belongs to). • YES: Establishes that the wired zone can be automatically bypass permanently until the Area is disarmed. • WITH RESTORE: Establishes that the wired zone is automatically excludable but, if it is not ready, it is taken back by the system and can generate an alarm during the arming in progress.
ALARM	Each individual wired zone can be programmed to react in differentiated acoustic mode. • SIR&BUZZER: Establishes that the zone generates alarms both on the buzzers and on the siren outputs. • CHIME: The CHIME is equivalent to the BUZZER and SIREN option but adds the CHIME parameter to the zone. The CHIME parameter makes it possible to control the zone, with the system disarmed, activating the Keypad buzzer. However, to activate the zone CHIME, you need to enable the zones to be controlled through the CHIME ZONES menu of User Menu. • SILENT: Establishes that the wired zone does not generate any type of sound alarm. • BUZZER: Establishes that the zone generates sound alarms only on Keypad buzzers. • SIREN: Establishes that the zone generates sound alarms only on siren-type outputs.
ALARM CYCLE	In the case of multiple alarms (alarm repetition), you can determine the behavior of the zones that remain open at the end of the alarm cycle in progress. For example, a zone has set the value 3 to the ALARM REPETITION parameter, if it remains open at the end of the activated alarm cycle, you can decide that the alarm is not recycled (alarm cycle is set to NO), or that the alarm is recycled a maximum of 3 times (alarm cycle is set to YES). This function is valid only for INSTANT, DELAY1&2, PATH, and EXIT END zones.
ALARM REPEAT	Each individual wired zone can be programmed to generate a limited number of alarm cycles during the arming phase. The value can be set from 00 through 10 cycles. The value 00 establishes a limitless number of alarm cycles during the arming of the system. When a wired zone reaches the programmed number of alarm cycles, the alarm system is momentarily placed in a state of exclusion until disarming. On disarming, the alarm cycle count is reset to zero.
OUTPUT LINK	Each individual wired zone can be programmed to command a LINK type output every time it is opened. The corresponding LINK output must be then programmed in the OUTPUT menu according to actual need (status and duration). If the setting remains at 000, no output will be affected. The setting takes effect only if the selected output (from 001 to xxx) will be programmed as a LINK type. This function is very useful for technological

Submenu	Setting
	commands or direct auxiliary signals.

Step 5 Press [ESC] to return to the WIRED ZONES menu.

Then you can continue with programming other wired zones, or press [ESC] to return to the

WIRED ZONES menu from where you can press [^] and [˅] to move to the next menu or press

[ESC] to exit from the Installer Menu.

Key Type Zone

The key type zone is used as an auxiliary command to arm/disarm one or more areas. In the area screen, the areas that the key zone will attempt to arm/disarm are defined. Having defined the Areas on which it will be able to act, the FUNCTION parameter is proposed, which provides options as below:

- ON/OFF
  - ◇ Modality: Select ON/OFF option, the key zone is used as an ON and OFF command. The type of arming will then be selected from TOTAL, PARTITION 1, PARTITION 2, and PARTITION 1+2.
  - ◇ Trigger: Select IMPULSE or BISTABLE (only for the ON/OFF command). This choice determines whether the key zone acts with an IMPULSE or BISTABLE command (on each N.C. to N.O. change and vice versa).
  - ◇ Arming: Select DELAYED OR IMMEDIATE.
    With delayed arming, the output time programmed for the Area on the AREAS menu will then follow. With immediate arming, the output time will not be taken into account and it will be executed immediately.
  - ◇ FORCED ARM: Select YES or NO.
    If YES is selected, the key Zone will be armed even though there are open Zones. If NO is selected, the arming will take place only if all the Area Zones are ready for arming.
  - ◇ Link: Set link output associated with the input.
- ON ONLY, OFF ONLY
  The settings ON ONLY and OFF ONLY use the IMPULSE type only.
  - ◇ Modality: Select ON/OFF option, the key zone is used as an ON and OFF command. The type of arming will then be selected from TOTAL, PARTITION 1, PARTITION 2, and PARTITION 1+2.
  - ◇ Arming: Select DELAYED OR IMMEDIATE.
    With delayed arming, the output time programmed for the Area on the AREAS menu will then follow. With immediate arming, the output time will not be taken into account and it will be executed immediately.
  - ◇ FORCED ARM: Select YES or NO.
    If YES is selected, the key Zone will be armed even though there are open Zones. If NO is selected, the arming will take place only if all the Area Zones are ready for arming.
  - ◇ Link: Set link output associated with the input.
- SPECIAL
  If the SPECIAL option is selected, two submenus are proposed.

◇ RESTART: This option turns off and immediately re-arms the control panel. This function can be useful to perform PATROL ROUND to disarm one or more areas getting automatic re-arm after the programmed exit time area.

◇ TIMER OFF: This option is not subject to TRIGGER, DELAY OR FORCED and works only in the table step from N.C. to N.O. status. When opened, it locks arming operations subject to a TMER which are programmed for the AREAS to which it is associated. In practice, it functions as a key to lock/unlock ON/OFF TIMERS active on the AREAS.

5.7 IN AND ZONES

You can set maximum eight IN AND ZONES couples. For each IN AND ZONES, you can combine two zones and establish the alarm linkage between them.

Step 1 After entering the Installer Menu, press $\boxed{\wedge}$ and $\boxed{\vee}$ to scroll up and down until you reach the IN AND ZONES menu. See Figure 5-7.

Figure 5-7 IN AND ZONES

〈05〉
IN AND ZONES

Step 2 Press $\boxed{\text{ENTER}}$ to enter the programming mode.

Step 3 Press $\boxed{\wedge}$ and $\boxed{\vee}$ to select the IN AND ZONE that you want to configure, and then press $\boxed{\text{ENTER}}$.

📖

By pressing $\boxed{\text{Total Fn}}$ + 2, you can enter the EDITING mode for changing the description of IN AND ZONE.

Step 4 Configure the settings. See Table 5-4.

Press $\boxed{\wedge}$ and $\boxed{\vee}$ to alter the options. Press $\boxed{\text{ENTER}}$ to confirm the setting and move to the next submenu.

Table 5-4 IN AND ZONE programming settings

Submenu	Setting
STATE	● ACTIVE: This IN AND ZONE is enabled. ● ISOLATE: This In and Zone is programed but not used. ● OFF: This IN AND ZONE is disabled.

Submenu	Setting
ZONE1/ZONE2	Select the zones that you want to combine the alarm linkage. To select the zone number, type in the number and press [Menu] to confirm the input. You can also press [∧] and [∨] to adjust the number. 📖 ● The IN AND ZONES can consist of any combination of wired or wireless zones and a single Zone can also be placed in AND by itself. However, it is suggested not to program Zones in AND which are of the delayed, robbery, or panic type as the AND result might not guarantee a sufficient level of security. ● Setting a Zone in AND by itself means that a double alarm confirmation will be obtained for the alarm to activate. This option is very useful for placing a filter on the first alarm from a Zone at a high risk of a FALSE ALARM.
IN SEQUENCE	Establish whether the alarm confirmation between the two zones should take into account the first and second sequence. ● YES: When the alarm is triggered in ZONE1, the alarm in ZONE2 must be triggered afterwards. ● NO: The control panel will not take the sequence into account.
TRIGGERS	Establishes the maximum number of alarms that the same Zone triggering the alarm. In practice, a filter is enabled, from a minimum value of 02 (two alarms) that takes into account the alarms permitted to the Zone before triggering the alarm. The maximum value that can be set is 15. 📖 Using the TRIGGERS parameter with the criterion could have a negative effectiveness and promptness of the installed alarm system.
AND TIME	Set the time within which the alarm from the ZONE2 must be triggered after the alarm of ZONE1 starts. If the ZONE2 opens in this time window, the alarm is confirmed; otherwise, after this time period, the timer is reset to zero and the first alarm is reset. The time can be programmed in minutes and seconds. Press [ENTER] to finish programming of the ZONE1 pair in AND.

Step 5 Press [ESC] to return to the IN AND ZONES menu.

Then you can continue with programming other IN AND ZONES, or press [ESC] to return to the IN

AND ZONES menu from where you can press [∧] and [∨] to move to the next menu or press

[ESC] to exit from the Installer Menu.

5.8 OUTPUTS

5.8.1 Entering OUTPUT Menu

Step 1 After entering the Installer Menu, press ⌃ and ⌄ to scroll up and down until you reach the

OUTPUTS menu. See Figure 5-8.

Figure 5-8 Outputs

〈06〉
OUTPUTS

Step 2 Press ⏎ENTER to enter the programming mode.

Step 3 Press ⌃ and ⌄ to select an output that you want to configure, and then press ⏎ENTER.

📖

By pressing Total Fn + 2, you can enter the EDITING mode for changing the description of Output.

Step 4 Configure the settings. See Table 5-5.

Press ⌃ and ⌄ to alter the options. Press ⏎ENTER to confirm the setting and move to the next

submenu.

The two numeric fields 000.00 represent minutes and seconds.

Table 5-5 Outputs settings

Submenu	Setting
STATE	Set the mode according to the installation requirements. ● ACTIVE: The wire output is fully operational. ● ISOLATE: The wire output is programmed but permanently bypassed from the system. ● OFF: The wire output is not used.
CATEGORIES	Set the output categories. For details, see "5.8.2 Configuring OUTPUT Categories." ● AREAS ● ZONES ● LINK ● GENERIC ● SYSTEM

Step 5 Press ⎋ESC to return to the OUTPUTS Menu.

Then you can continue with programming other outputs, or press ⎋ESC to return to the OUTPUTS

menu from where you can press ⌃ and ⌄ to move to the next menu or press ⎋ESC to exit

from the Installer Menu.

5.8.2 Configuring OUTPUT Categories

On the CATEGORIES submenu, press [^] or [v] to select the output category from AREAS, ZONES, LINK, GENERIC, or SYSTEM, and then press [ENTER] to enter the programming mode of output that you selected.

Press [^] and [v] to alter the options. Press [ENTER] to confirm the setting and move to the next submenu.
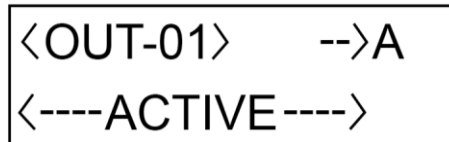
By entering the OUTPUTS menu when the LCD display shows the name of output, it is possible to manually activate the output to test its operation: Press [Total Fn] + 1 (F1), the ACTIVE interface is shown. See Figure 5-9.

Figure 5-9 Active

```
〈OUT-01〉     --〉A
〈----ACTIVE----〉
```

The text ACTIVE is flashing. The output activates and remains activated manually until the [ENTER] or [ESC] is pressed. The TECHNICIAN then can manually test all the system outputs.

AREA Outputs

Table 5-6 Areas outputs programming

Submenu	Setting
TYPE	● AREA ON: Follows Area(s) armed status. ● AREA OFF: Follows Area(s) armed status. ● PART1 ON: Follows Partition 1 armed status. ● PART2 ON: Follows Partition 2 armed status. ● EXIT TIME: Follows the exit delay time for the assigned area. In the case of multiple areas, it follows the longest period. ● ENTRY TIME: Follows the entry time for the assigned area. In the case of multiple areas, it follows the longest period. ● IN AND OUT DELAY TIME: Follows both the exit time and entry time for the assigned area. ● FORCED ARM: Follows forced arming with unready zones. This function is useful for notifying that TIMER arming has been provided with a certain number of NOT READY zones which are therefore automatically bypass from arming. ● CHIME: Follows the CHIME alarm condition in a chime zone (this can be one or more areas). ● ZONE BYPASS: Follows the existence of BYPASSED zones. ● ZONE TAMPER: Follows an alarm condition due to the activation of a wired or wireless zone tamper (this can be one or more areas).

Submenu	Setting
	• ALARM MEMORY: Follows the addition to the memory of a siren alarm being triggered. It remains active until the User reset. • READY: Follows the zone ready condition. This can be one or more areas. • PART1 ALARM: Follows an alarm condition due to an intrusion in Partition 1 (this can be one or more areas). Follows alarm conditions such as the system siren alarm output, but with alarm times for the area. • PART2 ALARM: Follows an alarm condition due to an intrusion in Partition 2 (this can be one or more areas). Follows alarm conditions such as the system siren alarm output, but with alarm times for the area. • FIRE: Follows an alarm condition due to the activation of a wire or radio fire zone (this can be one or more areas). • FIRE TROUBLE: Follows an alarm condition due to the activation of a fire failure (fire zone tamper). • PANIC: Follows a PANIC alarm condition (this can be one or more areas). • ROBBERY: Follows a ROBBERY alarm condition (this can be one or more areas). • MEDICAL: Follows a MEDICAL alarm condition (this can be one or more areas). • DURESS: Follows a duress condition due to arming or disarming under duress. • TIMER ERROR: Follows a condition of failure ARM operated by TIMER. • 24H ZONE: Follows an alarm conditions due to the activation of a 24-hour zone (this can be one or more areas).
AREAS	Select the areas (1 to 8) that you want to assign the outputs to. The areas can be assigned in individual or combined mode. In the case of multiple areas, the output is connected to them in OR or AND mode that is defined on the next screen. To assign or remove Areas from the Keypad, press the corresponding key (1 to 8) and then press [ENTER]. The number of the assigned Area appears on the programming line to confirm that the selection was successful. The number of the assigned Area disappears from the programming line to confirm that the deselection was successful.

Submenu	Setting
MODALITY	The Area output can be programmed to follow the Areas condition for AND or OR mode. If only one area has been assigned, this parameter has NO value. If 2 to 8 areas have been assigned, the behavior of the output must be defined for the presentation of the TYPE event in multiple areas. ● OR: The output activates when the event occurs in one of the assigned areas and deactivates when there is a reset from all the assigned areas. ● AND: The output activates when the event occurs in all of the assigned areas and deactivates when there is a reset from at least one of the areas. 📖 If only one area has been assigned, this parameter has no value.
POLAR	Select the output polarity. The choice of the output polarity determines the at rest status of the output itself. In practice, the output can be placed in HIGH or LOW electrical status (high status gets more security) ● DIRECT ● REVERSE If you press ENTER to confirm the option, you will exit and the output will immediately take on the selected polarity.

ZONES Outputs

Table 5-7 Zones outputs programming

Submenu	Setting
TYPE	● ZONE FOLLOW: Follows the direct status of the zone (open and closed). ● ZONE ALARM: Follows the zone alarm status until reset. ● ZONE BYPASS: Follows the bypassed zone status. ● ZONE TAMPER: Follows the tamper status.
ZONE1/ZONE2/ ZONE3/ZONE4	You can associate the output with up to a maximum of 4 different Zones (wire or radio Zones)
MODALITY	The ZONE outputs can be programmed to follow the association condition for AND and OR mode. If only one ZONE has been assigned, this parameter has NO value. If 2 to 4 ZONES have been assigned, the behavior of the output must be defined for the presentation of the event by multiple zones. ● OR: The output activates when the event occurs in one of the assigned areas and deactivates when there is a reset from all the assigned areas. ● AND: The output activates when the event occurs in all of the assigned areas and deactivates when there is a reset from at least one of the areas.

Submenu	Setting
	◻◻ If only one area has been assigned, this parameter has no value.
POLAR	The choice of the output polarity determines the at rest status of the output itself. In practice, the output can be placed in HIHG or LOW electrical status (high status gets more security) ● DIRECT ● REVERSE If you press ⬚ ENTER to confirm the option, you will exit and the output will immediately take on the selected polarity.

LINK Outputs

LINK outputs can be commanded by the User or by association with zone inputs. In practice, outputs are activated following the status of specific (wired or wireless) zones or through a direct manual command and can be programmed as Toggle or Pulse.

The outputs can also be associated with a maximum of 4 (Start/Stop) TIMERS which can limit the outputs operations to specific time periods during the week.

Table 5-8 Link outputs programming

Submenu	Setting
LINK ACT DUR	Set the activation time of the output (minutes/seconds).
LINK ACT DLY	Set an eventual delay time before output starts (minutes/seconds).
TRIGGER	This parameter is shown only if the delay is programmed in impulse mode. ● SINGLE: During its impulse activation, a further command does not restart the impulse time. In this case, the LINK can reactivate only after the entire impulse duration has elapsed. ● CONTINUOUS: During its impulse activation, when another command is received, the impulse time restarts from the beginning time. In practice, TRIGGER auto-regenerates at each new impulse until it comes to the end of the set time.
TIMER1/TIMER2/ TIMER3/TIMER4	Follows the setting of Timers (00 to 16). The outputs can also be associated with a maximum of 4 (Start/Stop) TIMERS which can limit the outputs operation to specific time periods during the week. Press ⬚^ and ⬚˅ or directly press the value + ⬚ ENTER to alter the timer to be set. After making the selection, press ⬚ Menu to move to the next field, and after setting the fourth timer, press ⬚ Menu to move to the Polar screen.

Submenu	Setting
POLAR	The choice of the output polarity determines the at rest status of the output itself. In practice, the output can be placed in HIGH or LOW electrical status (high status gets more security) ● DIRECT ● REVERSE If you press [ENTER] to confirm the option, you will exit and the output will immediately take on the selected polarity.

GENERIC Outputs

The GENERIC outputs are only used by TIMERS (up to 4 timers).

In practice, the outputs are activated following the time slots on the Timers and the activation duration can be programmed as TOGGLE (000.00=TOGGLE) or PULSE (timed).

Table 5-9 Generic outputs programming

Item	Setting
GEN ACT DUR	Set the activation time of the output (minutes/seconds). Setting it to 000.00 makes it Toggle.
GEN ACT DLY	Set an eventual delay time before output starts (minutes/seconds).
TRIGGER	This parameter is shown only if the delay is programmed in impulse mode. ● SINGLE: During its impulse activation, a further command does not restart the impulse time. In this case, the LINK can reactivate only after the entire impulse duration has elapsed. ● CONTINUOUS: During its impulse activation, when another command is received, the impulse time restarts from the beginning time. In practice, TRIGGER auto-regenerates at each new impulse until it comes to the end of the set time.
TIMER1/TIMER2/ TIMER3/TIMER4	Follows the setting of Timers (00 to 16). The outputs can also be associated with a maximum of 4 (Start/Stop) TIMERS which can limit the outputs operation to specific time periods during the week. Press [^] and [˅] or directly press the value + [ENTER] to alter the timer to be set. After making the selection, press [Menu] to move to the next field, and after setting the fourth timer, press [Menu] to move to the Polar screen.
POLAR	The choice of the output polarity determines the at rest status of the output itself. In practice, the output can be placed in HIHG or LOW electrical status (high status gets more security) ● DIRECT ● REVERSE

Item	Setting
	If you press [ENTER] to confirm the option, you will exit and the output will immediately take on the selected polarity.

SYSTEM Outputs

The system outputs follow on from general system conditions regardless of the areas.

Table 5-10 System outputs programming

Item	Setting
TYPE	• SIREN ALARM: Follows the generic alarm condition and the timing is in according to SYSTEM FUNCTIONS setting. • SYSTEM TAMPER: Follows Control Panel tamper condition. • SIREN TAMPER: Follows Siren tamper condition. • KEYPAD TAMPER: Follows Keypad tamper condition. • COM1 TROUBLE: Follows a fault condition on the COM1 generated by the bus modules. • WALK TEST: Follows the placing of the Control Panel in WALK TEST mode. • TECHNICIAN: Follows the entry of the TECHNICIAN into programming. • CODE ERROR: This type of output activates when the counter for the number of false codes entered reaches the parameter set in SYSTEM FUNCTIONS. The duration of the output activations is 3 minutes. • COM. BUSY: This type of output follows telephone communication in progress. • TROUBLES: Follows a failure of troubles that include a loss of PSTN LINE, a loss of GSM telephone line, antenna tamper, main power supply loss, battery loss, low battery voltage, SIM expiry, time abnormality.
POLAR	Select the output polarity. • DIRECT • REVERSE

5.9 AREAS

Step 1 After entering the Installer Menu, press [^] and [˅] to scroll up and down until you reach the AREAS menu. See Figure 5-10.

Figure 5-10 Areas

〈07〉
AREAS

Step 2 Press [ENTER] to enter the programming mode.

Step 3 Press ⌃ and ⌄ to select the Area that you want to configure, and then press ENTER.

📖

By pressing [Total Fn] + 2, you can enter the EDITING mode for changing the description of Area.

Step 4 Configure the settings. See Table 5-11.

Press ⌃ and ⌄ to alter the options. Press ENTER to confirm the setting and move to the next submenu.

The two numeric fields 000.00 represent minutes and seconds.

Table 5-11 Areas settings

Submenu	Setting
ENREY D1	Set the entry delay 1 and entry delay 2. During the delayed time, the alarm is not reported. When this value is set to 0, there is no entry delay and the alarm is reported directly.
ENTRY D2	
EXIT DELAY	Set the exit delay time. The alarm is not valid when it is triggered during exit delay time. When this value is set to 0, there will be no exit delay time and the arming is operated directly.
BUZ DU	Set the buzzer alarm duration for each area (minutes/seconds).
BUZ DELAY	Set the buzzer alarm delay duration for each area (minutes/seconds).
IN AND AREA	The area undergoing programming can be programmed to follow other AREAS in AND mode. If the area is in AND, it means that the programmed area can no longer be armed or disarmed through a direct code or remote control. For example, the protection of staircases shared by two apartments, which arm when both areas of the two apartments are armed and disarmed when one of the two systems disarm.
TIMER1/TIMER2/ TIMER3/TIMER4	Provides 4 timers that can be used to control the arming or disarming of the area. Press ⌃ and ⌄ or directly press the value + ENTER to alter the timer to be set. After making the selection, press Menu to move to the next field, and after setting the fourth timer, press Menu to go back to the start of the AREAS menu. Select another area or press ESC to exit the AREAS menu.
CLIENT ID	The CLIENT ID is different for each area and represents the identification used by PSTN. The alarm event links multiple areas and each area respectively links PSTN transmission.

Step 5   Press [ESC] to return to the AREAS selection menu.

Then you can continue with programming other AREAS, or press [ESC] to return to the AREAS

menu from where you can press [^] and [∨] to move to the next menu or press [ESC] to exit
from the Installer Menu.

5.10 SYSTEM FUNCTIONS

Step 1   After entering the Installer Menu, press [^] and [∨] to scroll up and down until you reach the

SYSTEM FUNCTIONS menu. See Figure 5-11.

Figure 5-11 System functions

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⟨08⟩
SYSTEM FUNCTIONS
```

Step 2   Press [ENTER] to enter the programming mode.

Step 3   Configure the settings. See Table 5-12.

Press [^] and [∨] to alter the options. Press [ENTER] to confirm the setting and move to the next
submenu.
The two numeric fields 000.00 represent minutes and seconds.

Table 5-12 System functions settings

Submenu	Setting
MAX AL CYCLE	Maximum of alarm cycles. Set the maximum number of alarms that the control panel can generate during an arming cycle. This count is the total of the maximum number of alarm cycles for all the control panel zones. 000 represents that there is no limit.
SYS AL CYCLE	Max system alarm cycles. Set the maximum number of alarms generated during one alarm cycle by the control panel tamper, siren tamper, module tamper, bus alarm (if enabled), wireless alarm (if enabled), and supervision alarm (if enabled). 000 represents that there is no limit.
PANEL TAMPER AREAS	Set which area(s) the alarm generated by the Control Panel tamper should be linked. If no area is associated, no control panel tamper alarm will be activated. The control panel tamper can be assigned to multiple areas.
SIREN TAMPER AREAS	Set which area(s) the alarm generated by the siren tamper (ST) should be linked.
TAMP AL MODE	Tamper alarm response mode. Control panel tamper, siren tamper, BUS module tamper that can generate different responses including SILENT, BUZZER, SIREN, and BUZ/SIR.

Submenu	Setting
TROU AL MODE	Trouble alarm response mode. Set the TROUBLE ALARM (PSTN disconnection, GSM failure, antenna tamper, AC loss, battery loss, battery voltage failure, SIM expiration, time display problem) response type: SILENT, BUZZER, SIREN, and BUZ/SIR.
COM TRO ALM	COM trouble alarm. Set the COM trouble (interruption to the connection) response type: SILENT, BUZZER, SIREN, and BUZ/SIR.
BAT TRO ARM	Arming with battery trouble. Set whether the presence of low battery condition (in the control panel or a wireless sensor) allow to arm the system. ● YES ● NO
ARM DLY AL	Set whether the use of alarm delay is enabled with the system armed in total arm mode. In practice, the siren alarm can be delayed by a programmable period while the keypad displays indicate that alarm has been triggered. ● YES ● NO
ENY/EXT BEEP	Entry/Exit sounds with partial arming. Set whether the sound of keypad buzzers for the entry and exit times is enabled or disabled during arming of the types Partial 1, Partial 2, or Partial 1+2. ● YES ● NO
PANIC AL MOD	Panic alarm mode. Set whether audible alarm or silent alarm is generated by a Panic event. ● AUDIBLE ● SILENT
DURESS MOD	Enable or disable duress function. If enabled, you can vary the last digit of the access code to activate duress alarm (1234 becomes 1235 or 1233). ● YES ● NO
PWD ERR MAX	Password error maximum. Set the maximum permitted number of errors in code entry from the keypad (00 to 10). 00 represents there is no limit. If the maximum entry time is reached, the current Keypad will be locked for 3 minutes.
FACTORY RST	Set whether the control panel is enabled to restore factory settings. ● PART: Delete all control panel data except the wireless devices codes (such as sensors and sirens) ● TOTL: Delete all control panel data. ● NO: The reset of factory default procedure will have no effect.
EOL R VALUE	Set the EOL value to 2.7K, 4.7K, or 6.8K. The panel zones termination supports NC, NO, 1EOL, 2EOL and 3EOL. For 1EOL and 2EOL, the resistors value can be set to 2.7K, 4.7K, or 6.8K; for 3EOL, the resistors value is fixed to 2.7K (R1, R2), and 6.8K (R3). See Figure 2-6.

Submenu	Setting
FIRMWARE VER	Show the firmware version of the Control Panel.

Step 4 Press ⎡ESC⎤ to return to the SYSTEM FUNCTIONS menu.

Then you can press ⎡^⎤ and ⎡∨⎤ to move to the next menu or press ⎡ESC⎤ to exit from the Installer Menu.

5.11 SYSTEM TIMING

Step 1 After entering the Installer Menu, press ⎡^⎤ and ⎡∨⎤ to scroll up and down until you reach the SYSTEM TIMING menu. See Figure 5-12.

Figure 5-12 System timing

```
⟨09⟩
SYSTEM TIMING
```

Step 2 Press ⎡ENTER⎤ to enter the programming mode.

Step 3 Configure the settings. See Table 5-13.

Press ⎡^⎤ and ⎡∨⎤ to alter the options. Press ⎡ENTER⎤ to confirm the setting and move to the next submenu.

The two numeric fields 000.00 represent minutes and seconds.

Table 5-13 System timing settings

Submenu	Setting
SIR AL DUR	Siren Alarm Duration. Set the alarm lasting time of the siren.
SIR AL DLY	Siren Alarm Delay. Set the delay time for alarm output from siren.
CHIME AL DUR	Chime Alarm Duration. Set the activation time of the CHIME alarm.
FIRE AL DUR	Fire Alarm Duration. Set the activation time of the FIRE alarm.
PANIC AL DUR	Panic Alarm Duration. Set the activation time of the PANIC alarm.
HOLDUP AL DU	Hold-up/Robbery Alarm Duration. Set the activation time of the ROBBERY alarm.
MEDICL AL DU	Medical Alarm Duration. Set the activation time of the MEDICAL alarm.
AC LOSS DLY	AC Loss Delay. Set the delay time for the activation of the outputs that follow a main power loss condition.

Submenu	Setting
PATROL DISARM	Set the disarming time period for the patrol user. If you set the time to 0, disarming is not allowed.
ZONE IN TEST	Set the time period for the test mode of zone. After this period, the zone returns to ACTIVE.
PROGRAM TIME	Technician Timer Program. Set the maximum time available for TEHCNICIAN to program the system after user authorization. Valid time from 01 to 10 hours.

Step 4 Press [ESC] to return to the SYSTEM TIMING menu.

Then you can press [^] and [˅] to move to the next menu or press [ESC] to exit from the Installer Menu.

5.12 SYSTEM TIMERS

Step 1 After entering the Installer Menu, press [^] and [˅] to scroll up and down until you reach the SYSTEM TIMERS menu. See Figure 5-13.

Figure 5-13 System timer

⟨10⟩
SYSTEM TIMER

Step 2 Press [ENTER] to enter the programming mode.

Step 3 Press [^] and [˅] to select the Timer that you want to configure, and then press [ENTER].

📖

By pressing [Total Fn] + 2, you can enter the EDITING mode for changing the description of timer.

Step 4 Configure the settings. See Table 5-14.

Press [^] and [˅] to alter the options. Press [ENTER] to confirm the setting and move to the next submenu.

Table 5-14 System timer settings

Submenu	Setting
STATE	● ACTIVE: Timer enabled. ● ISOLATE: Timer enabled but temporarily locked. ● OFF: Timer disabled.
TYPE	● START/STOP: The timer applies to arming and disarming, access code duration and LINK OUTPUT duration. ● STAR: The timer applies to arming only. ● STOP: The timer applies to disarming only.

Submenu	Setting
START TIME	Type in the start time for automatic arming, access code duration, and LINK OUTPUT duration. Press the corresponding keys to enter the desired value and then press ⟦Menu⟧ to confirm the value. You can also press ⟦^⟧ and ⟦∨⟧ to change the value.
STOP TIME	Type in the stop time for automatic disarming, access code duration, and LINK OUTPUT duration. Press the corresponding keys to enter the desired value and then press ⟦Menu⟧ to confirm the value. You can also press ⟦^⟧ and ⟦∨⟧ to change the value.
DAYS	Establish the days of the week on which the Timer will have an effect. Press keys 1 to 7 to select the day (M T W T F S S).
HOLIDAYS	Establish whether the timer being programmed refers to the holidays programmed. ● YES: The timer is blocked during the holiday periods. ● NO: The timer does not follow the holiday conditions, and therefore continues active whatever is associated with it.
ARMING	Select the type of arming for the Timer. ● DELAYED ● IMMEDIATE
FORCED ARM	Select whether the timer arming will be forced. ● YES ● NO

Step 5 Press ⟦ESC⟧ to return to the Timer selection menu.

Then you can continue with programming other Timers, or press ⟦ESC⟧ to return to the SYSTEM TIMERS menu from where you can press ⟦^⟧ and ⟦∨⟧ to move to the next menu or press ⟦ESC⟧ to exit from the Installer Menu.

5.13 ACCESS CODES

5.13.1 Authority Level

Table 5-15 Authority level

User type	Authority level
Supervisor	All operations on all Areas. Factory default setting is 1234.
Manager	All operations on the Areas allowed by the Keypad. The Manager can change his own code, and codes and authorities of lower levels, but cannot change the Supervisor code.

User type	Authority level
Master	Operations only on the Areas that are assigned to Master. The Master can only change his own code and those of a lower level and access the User Menu up to option 9.
User	Operations only on the Areas that are assigned to User. The User can only change his own code and access the User Menu up to option 8.
Temporary	Valid only for an arming and disarming operation. The Temporary does not have access to the User Menu.
Duress	Valid only for arming and disarming with automatic activation of the duress output. The Duress does not have access to the User Menu.
Patrol	Valid only for disarming operation. When the patrol time ends, the Zones are automatically armed again.

5.13.2 Configuring Authority Level

Step 1 After entering the Installer Menu, press [^] and [˅] to scroll up and down until you reach the

ACCESS CODES menu. See Figure 5-14.

Figure 5-14 Access codes

⟨11⟩
ACCESS CODES

📖

Access Code 1 is always the Supervisor code. From 2 onwards it is possible to program users with an authority level. You can set up to 99 access codes.

Step 2 Press [ENTER] to enter the programming mode.

Step 3 Press [^] and [˅] to select an access code that you want to configure, and then press [ENTER].

Step 4 Set the authority parameters. See Table 5-16.

- For Supervisor and Manager, you only need to set STATUS, LEVEL, ARMING, FORCED ARM, and LINK submenus. For Master, User, Temporary, and Duress, you should set all the submenus.

- On each submenu, press [^] and [˅] to alter the options. After setting each submenu,

  press [ENTER] to enter the next submenu.

Table 5-16 Access code level and submenus

Submenu	Setting
STATUS	Set the code to an operating or non-operating status. ● ACTIVE ● ISOLATE
LEVEL	Give an authority level to the user. For the different authority level, see "5.13.1 Authority Level."

Submenu	Setting
AREAS	Establish which Areas the access code can operate.
PART1	Establish whether the access code can operate Partition 1 and Partition 2 arming types under the selected Areas.
PART2	
ARM	Establish whether the access code has the authority to arm or disarm the Control Panel.
DISARM	● YES ● NO ● YES LINK 4: The access code can link the output 4 when arming or disarming.
ARMING	Establish whether the code, when armed, activates the system immediately or leaving Area exit delays. ● IMMEDIATE ● DELAYED
FORCED ARM	Establish whether the code can arm the system even with alarm detectors in a not ready status. For example, windows left open deliberately or defective sensors. ● YES ● NO
STOP CALL	Establish whether the access code can stop a telephone call when there is a telephone call in progress. ● YES ● NO
ZONE STATUS	Establish whether the access code can change the Zone status, for example, from ACTIVE to DISALED. ● YES ● NO
REMOTE	Establish whether the access code can control the Control Panel through telephone call and SMS. ● YES ● NO 📖 Controlling through App is not affected by this setting.
TIMER	Establish whether the access code is limited to operation only during certain time period. There are four TIMERS can be given to the access code, and each TIMER can select from eight timers that are configured in the system. If you select 0, the access code can operate during the whole period instead of limited time period.

Submenu	Setting
LINK 1, 2, 3, 4	Establish whether the access code has the authorization to activate command outputs (maximum 4) and the number of outputs to be activated. 📖 This function is valid only when the Link type is selected in the OUTPUTS menu of Installer Menu.
NEW CODE	Type in a new code that contains 4 to 6 digits and cannot start with 0. For details, see "5.13.3 Configuring Access Code."

Step 5 Press [ESC] to return to the access code selection menu.

Then you can continue with programming other access codes, or press [ESC] to return to the

ACCESS CODES menu from where you can press [^] and [∨] to move to the next menu or

press [ESC] to exit from the Installer Menu.

5.13.3 Configuring Access Code

Setting an Access Code

If you want to set or change an access code, follow the steps described in "5.13.2 Configuring Authority Level" to enter the NEW CODE submenu.

Step 1 On the NEW CODE submenu, type in the new code, and then press [ENTER].
The confirmation text "PWD VALID" is shown.

Step 2 Type in the new code again, and then press [ENTER] to store the new code.
If the code is not valid or typed incorrectly, the operation will not succeed and two beeps with the text "PWD INVALID" confirm the error. In this case, repeat the operation correctly.

Step 3 Press [ESC] to exit.

Deleting an Existing Access Code

📖

Access Code 1 cannot be deleted.

Step 1 On the Access Code submenu, for example, Access Code 2, press and hold [BYP <] for at least three seconds.
The "NO PRESENT" message is shown to indicate that the Access Code is deleted.

Step 2 Press [ESC] to exit.
A cancelled access code is no longer operational but can be reactivated by a user with an appropriate authority level such as Supervisor.

Customizing the Description of Access Code

You can customize the factory default description (Access Code no.) if needed.

Step 1 On the access code submenu, for example, Access Code 2, press [Total Fn] + 2 (F2) to enter the editing status.

Step 2 Press [BYP <] and [DISARM >] to move to the position of the description, and then insert the character by using the specific key (0 to 9).

Step 3 Press [ENTER] to finish and save the description.

Step 4 Press [ESC] to exit from the submenu or press [ENTER] to continue.

5.14 DATE/TIME

Step 1 After entering the Installer Menu, press [^] and [ˇ] to scroll up and down until you reach the DATE/TIME menu. See Figure 5-15.

Figure 5-15 DATE/TIME

〈12〉
DATE/TIME

Step 2 Press [ENTER] to enter the programming mode.

Step 3 Configure the settings. See Table 5-17.

Press [^] and [ˇ] to alter the options. Press [ENTER] to confirm the setting and move to the next submenu.

Table 5-17 Date and time settings

Submenu	Setting
TIME	Set the time for the control panel.
DATE	Set the date for the control panel (day/month/year).
SOL TO LEG	Set the day and the month for the automatic change of time from Solar to Legal.
LEG TO SOL	Set the day and the month for the automatic change of time from Legal to Solar.

Submenu	Setting
EXPIRY	This function is supported only when the SIM TYPE is set to CONTRACT in the COMMUNICATIOR menu. Set the expiration date of the SIM card installed in the GSM telephone communicator. ● It is suggested to set a minimum period of 10 days before the real expiration of the SIM card so as to have adequate warning time to recharge it and extend its validity. ● At the set date, the failure status LED indicator will light up. If programmed, SMS can be sent to external telephone number. Auxiliary outputs can also be activated for connection to local devices.

Step 4 Press [ESC] to return to the DATE/TIME menu.

Then you can press [^] and [∨] to move to the next menu or press [ESC] to exit from the Installer Menu.

5.15 HOLIDAY

The HOLIDAYS menu is used to set the holidays for the year when the Timers will not have any effect on arming and disarming, or need to completely block user code working and outputs.

You can program up to 20 holiday periods.

Step 1 After entering the Installer Menu, press [^] and [∨] to scroll up and down until you reach the HOLIDAY menu. See Figure 5-16.

Figure 5-16 Holiday

⟨13⟩
HOLIDAY

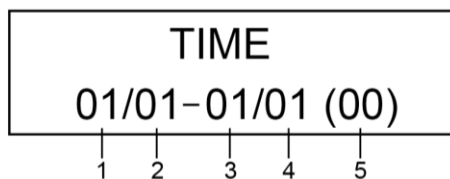Step 2 Press [ENTER] to enter the programming mode.

Step 3 Press [^] and [∨] to select the holiday that you want to configure, and then press [ENTER].
The holiday time setting interface is shown. See Figure 5-17

By pressing [Total Fn] + 2, you can enter the EDITING mode for changing the description of holiday.

Figure 5-17 Holiday time

TIME
01/01−01/01 (00)
  1   2   3   4   5

● 1: Holiday start day
● 2: Holiday start month
● 3: Holiday end day

- ● 4: Holiday end month
- ● 5: Holiday year

<u>Step 4</u> Type in the value and press [Menu] to confirm the setting, or press [^] and [v] to change the value, and then move on to the next field.

<u>Step 5</u> Press [ESC] to return to the holiday selection menu.

Then you can continue with programming other holidays, or press [ESC] to return to the HOLIDAY

menu from where you can press [^] and [v] to move to the next menu or press [ESC] to exit
from the Installer Menu.

📖

To delete a Holiday, on the Holiday selection interface where the Holiday name is shown, press

and hold [BYP <] for at least three seconds.

5.16 TEL NUMBER

The TEL NUMBER menu is used to set the telephone numbers that will be used by the 2G/4G module for voice calls and/or SMS.

Up to 8 different telephone numbers can be programmed for voice calls and remote control by dialing, 8 numbers for SMS and remote control by SMS. The same telephone number can be used for a different number of voice calls/SMS (such as alarm, robbery, and 220V AC failure).

<u>Step 1</u> After entering the Installer Menu, press [^] and [v] to scroll up and down until you reach the

TEL NUMBER menu. See Figure 5-18.

Figure 5-18 Tel number

```
〈14〉
TEL NUMBER
```

<u>Step 2</u> Press [ENTER] to enter the programming mode.

There are three options: TEL NUM, SMS NUM, and SIM NUM. Press [^] and [v] to alter the
options.
- ● TEL NUM

1) On the TEL NUM submenu, press [ENTER] to enter the interface from where you can select a

telephone number that you want to program by pressing [^] and [v].

2) After selecting a telephone number, press [ENTER] to enter the programming mode.

3) Configure the telephone number settings. See Table 5-18.

Table 5-18 Telephone number setting

Item	Setting
STATE	• ACTIVE: Allow the telephone number to be linked. • ISOLATE: The telephone number is programmed but temporarily not used.
STOP CYCLE	• YES: When the alarm event occurs, if the event is programmed to link multiple telephone numbers, press # key on your telephone to hang up the call, the calling will not link to other telephone numbers. • NO: When the alarm event occurs, if the event is programmed to link multiple telephone numbers, press # key on your telephone to hang up the call, the calling will continue to call other telephone numbers.

Other functions:

◇ Press [Total Fn] + 2 (F2) to enter the EDITING mode for changing the telephone number. You can type in up to a maximum of 24 digits. Use the horizontal cursor keys to move within the number. Any of the digits can be overwritten. By positioning at any point in the number (for example, at the start) and holding down [ESC], it is possible to delete all the digits from that point onwards (for example, deletion of the entire number).

◇ Press [Total Fn] + 3 (F3) to do a test call on this number.

◇ Press [Total Fn] + 4 (F4) to interrupt the call in progress at any time.

4) Press [ESC] to return to the telephone selection menu.

Then you can continue with programming other telephone number, or press [ESC] to return to the TEL NUM menu from where you can press [^] and [∨] to move to the next menu.

● SMS NUM

1) On the SMS NUM submenu, press [ENTER] to enter the interface from where you can select a SMS number that you want to program by pressing [^] and [∨].

2) After selecting a SMS number, press [ENTER] to enter the programming mode.

3) Configure the SMS number settings. See Table 5-19.

Table 5-19 SMS number setting

Submenu	Setting
STATE	• ACTIVE: Allow the SMS number to be linked. • ISOLATE: The SMS number is programmed but temporarily not used.
SYSTEM	Press 1 to 7 to select the day of the week when user wants to receive an automatic SMS text about system status.
CREDIT	Press 1 to 7 to select the day of the week when user wants to receive an automatic SMS text about pre-paid SIM credit.

Submenu	Setting
SMS TIME	Type in the specific time when user wants to receive SMS text for SYSTEM status and/or CREDIT SIM.
AREA	Press 1 to 8 to select the alarm event from which Area can be sent to this SMS number.
EVENT	Press 1 to 5 to select which event can be sent to this SMS number. ● 1: S-system event ● 2: M-module ● 3: E-Emergency ● 4: I-Arm/Disarm ● 5: Z-Zones

4)   Press [ESC] to return to the SMS number selection menu.

Then you can continue with programming other SMS number, or press [ESC] to return to the

SMS NUM menu from where you can press [∧] and [∨] to move to the next menu.

●   SIM NUM
Record the SIM card number that is installed in the control panel.

Step 3 Press [ESC], the Keypad requests "EXIT FROM MENU?". Then press [ENTER] to confirm and exit
from the TEL NUMBER menu.

5.17 REMOTE SERVICE

Step 1 After entering the Installer Menu, press [∧] and [∨] to scroll up and down until you reach the

REMOTE SERVICE menu. See Figure 5-19.

Figure 5-19 Remote service

〈15〉
REMOTE SERVICE

Step 2 Press [ENTER] to enter the programming mode.

Step 3 In the State submenu, select YES or NO.
●   YES: Allows remote control from telephone call, SMS, or Platform.
●   NO: Do not allow the remote control.

Controlling through App is not affected by this setting.

Step 4 Press [ESC] to return to the REMOTE SERVICE menu.

Then you can press [∧] and [∨] to move to the next menu or press [ESC] to exit from the
Installer Menu.

5.18 MONITOR STATION

Step 1 After entering the Installer Menu, press [^] and [∨] to scroll up and down until you reach the

MONITOR STATION menu for digital Contact ID alarm centralization parameters (up to 3 Monitor

Station numbers). See Figure 5-20.

Figure 5-20 Monitor station

〈16〉
MONITOR STATION

Step 2 Press [^] and [∨] to select the monitor station that you want to configure, and then press

[ENTER].

Step 3 Configure the settings. See Table 5-20.

Press [^] and [∨] to alter the options. Press [ENTER] to confirm the setting and move to the next

submenu.

Table 5-20 Monitor station settings

Submenu	Setting
STATE	● ACTIVE: The PSTN number is enabled. ● ISOLATE: The PSTN number is set but temporarily locked.
MODE	Set the digital protocol for each service center number (Only CONTACT ID for now).
TEST DATE	Set the date when to test PSTN.
TEST TIME	Set the specific time when to test PSTN.

Step 4 Press [ESC] to return to the monitor station selection menu.

Then you can continue with programming other monitor stations (up to three), or press [ESC] to

return to the MONITOR STATION menu from where you can press [^] and [∨] to move to the

next menu or press [ESC] to exit from the Installer Menu.

5.19 VOCAL MESSAGES

Step 1 After entering the Installer Menu, press [^] and [∨] to scroll up and down until you reach the

VOCAL MESSAGES menu. See Figure 5-21.

Figure 5-21 Vocal messages

⟨17⟩
VOCAL MESSAGES

Step 2 Press ⌷ENTER⌷ to enter the programming mode.

Step 3 Press ⌷^⌷ and ⌷∨⌷ to select the vocal message that you want to configure, and then press

⌷ENTER⌷.

Step 4 Configure the settings. See Table 5-21.

Press ⌷^⌷ and ⌷∨⌷ to alter the options. Press ⌷ENTER⌷ to confirm the setting and move to the next
submenu.

Table 5-21 Vocal messages settings

Submenu	Setting
STATE	● ACTIVE: The alarm event links this vocal message. ● ISOLATE: The vocal message linkage is programmed but temporarily not used. ● OFF: The alarm event does not link this vocal message.
CATEGORIES	Select a category from the following to link which you want to link the vocal message. ● AREA ● ZONE ● SYSTEM

Submenu	Setting
TYPE	• If select AREA in CATEGORIES, then you can select an event from the following. When the selected event is triggered, the 2G/4G module will make a voice call to the choosen telephone number. ◇ SYSTEM TAMPER: ◇ SIREN TAMPER ◇ ALARM MEMORY ◇ FIRE ◇ PANIC ◇ ROBBERY ◇ MEDICAL ◇ DURESS • If select ZONE in CATEGORIES, configure the following settings: ◇ LINK OUTPUT By selecting the Output (01 to 40) with which the desired events have been associated in advance, a specific non pre-programmed call is set. For example, if vocal message 3 was to be used for the wired zones 1 and 2 alarm, to achieve this, you need to program a control panel OUTPUT in advance (see "5.8 OUTPUTS") (even if the output module is not present on the bus) which follows the ZONE condition for the Zone Alarm type which is associated with the wire zones 1 and 2. Output 3 could be programmed in this way. On the VOCAL MESSAGE menu, a message would then need to be created to follow the ZONE event and output 3. In the event of an alarm in wired zone 1 and 2, vocal message 3 would then automatically sent the alarm voice call to the programmed telephone numbers. ◇ TEL NO: Select telephone number(s) that you want the vocal message to link. • If you select SYSTEM in CATEGORIES, then you can select an event from the following. When the selected event is triggered, it links the vocal message. ◇ BATTERY LOW ◇ AC LOSS

Step 5 Press [ESC] to return to the vocal message selection menu.

Then you can continue with programming other vocal messages (up to 88), or press [ESC] to

return to the VOCAL MESSAGES menu from where you can press [^] and [˅] to move to the

next menu or press [ESC] to exit from the Installer Menu.

Procedure to Enter in the Interactive Vocal Guide Menu

Step 1 Call the 2G/4G module equipped with the Control Panel or receive a call from it.
When 2G/4G module is called and answer to voice broadcast "Please input the password."

Step 2   Provide a correct password (it will match with a valid one stored in a control panel).
         The password must be the same as the one used locally by the keypad but here must have 6 digits.
         If it has 4 or 5 digits on the keypad, prefix it with zeros before the code to bring it to 6 digits (for example, 001234).
         User codes less than 6 digits will not be available in the interactive vocal call.

Step 3   A procedure voice broadcasting message starts if the code is correct or a voice broadcasting "Input Error" starts if you use a wrong code.

Figure 5-22 Vocal message flow

Calling the controller

"Please input the password"

Password is correct, password control the panel is enabled and the password has authority to control the panel

"System status, press 1";
"Arm and disarm, press 2";
"Output on and off, press 3";
"Listen again, press star key";(*)
"End the call, please hang up";

When controlling the panel through vocal message, users are required to enter instructions (for example to enter the process Press[1] in the flowchat). If users entered wrong instructions or did not enter any instruction twice in succession, the panel will hang up.

Press [*]   Press [1]   Press [2]   Press [3]   [Hang up]

Option1: "System OK"
Option2: "Area 1 Alarm, Area 2 Alarm"
Option3: "Main power off"

"Total Arm, press 1"
"Disarm, press 2"

"Output ON, press 1"
"Output OFF, press 2"

Press [1]   Press [2]   Press [1]   Press [2]

"Enter one area"   "Enter output"

Press [1] to [8]   Press [0] to [2]

"Area 1 ON"   "Area 8 OFF"   "Siren ON"   "Output1 OFF"

"Listen again, press start key"
"Return to the main menu, press 0"
"End the call, please hang up"

Press [*]   Press [0]   Hang up

End Call

Entered wrong instructions or did not enter any instructions after wait overtime twice in succession, the panel will hang up.

Receiving a call from controller

Answer the call from controller

"Zone1 Alarm, Area 1, 2, 8; Zone3 Tamper Alarm, Area 1, 3"

"Listen again, press star key";(*)
"Press 1 to disarm the system";
"Stop cycle dialing, press hash";(#)
"End the call, please hang up";

Press [*]   Press [1]   Press [#]   [Hang up]

Entered wrong instructions or did not enter any instructions after wait overtime twice accumulatively, the panel will hang up.

End Call

Figure 5-23 Voice prompts during entering password process

You do not have permission to do this.
"YOU DO NOT HAVE PERMISSION TO DO THIS"

Voice prompts that users might hear during the entering password process.

Entered the wrong password once.
"ERROR PASSWORD, PELASE INPUT AGAIN"

"Please input the password"

Did not enter the password after wait overtime once.
"PLEASE ENTER THE PASSWORD."

Entered wrong password or did not enter password after wait overtime twice accumulatively.
"ERROR PASSWORD"

Correct password.
WELCOME

5.20 SMS MESSAGES

If equipped of the 2G/4G module, the Alarm Control Panel is able to transmit and receive SMS as command and request to state.

Step 1 After entering the Installer Menu, press $\wedge$ and $\vee$ to scroll up and down until you reach the SMS MESSAGES menu. See Figure 5-24.

Figure 5-24 SMS messages

〈18〉
SMS MESSAGES

Step 2 Press ENTER to enter the programming mode.

Step 3 Press $\wedge$ and $\vee$ to select the SMS message that you want to configure, and then press ENTER.

Step 4 In the SMS SEND submenu, select TRUE or FALSE.
- TURE: The alarm event links this SMS message.
- FALSE: The SMS message linkage is not used.

Step 5 Press ESC to return to the SMS message selection menu.

Then you can continue with programming other SMS messages, or press [ESC] to return to the

SMS MESSAGES menu from where you can press [^] and [v] to move to the next menu or

press [ESC] to exit from the Installer Menu.

To send SMS messages as remote control command, e.g. arming or disarming, you have to write, on your mobile phone a specific SMS with a pre-format composition (-means empty space).

Pay attention at the empty space between user code and command and/or numbers. The user code must be an authorized control panel user code (4 digits or 6 digits will be accepted). Upper case or lower case text SMS will be accepted. For the available commands/contents, see Table 5-22, Table 5-23 and Table 5-24.

Command explanation: Take 1234 TOTAL 1 2 3 as an example. "1234" represents password, "TOTAL" represents command, "1 2 3" represent command object.

Table 5-22 Smartphone sending SMS to controller

No.	Meaning	Command (Content by smartphone)	Content replied by controller automatically
1.1	Some Area Total Arm	1234␣TOTAL␣1␣2␣3	Area Status (22/05/18 13:13)– Area ON:123-Area OFF:45678
1.2	All Areas Total Arm	1234␣TOTAL	Area Status (22/05/18 13:13)– Area ON:12345678
1.3	Some Area P1 Arm	1234␣P1␣1␣2␣3	P1 Status (22/05/18 13:13)– Area ON:123-Area OFF:45678
1.4	Some Area P2 Arm	1234␣P2␣1␣2␣3	P2 Status (22/05/18 13:13)– Area ON:123-Area OFF:45678
1.5	Some Area Disarm	1234␣DISARM␣1␣2␣3␣4␣5	Area Status (22/05/18 13:13)– Area OFF:12345
2.1	Some Zone Bypass	1234␣ZONE␣OFF␣Z1␣Z2	Zone Status (22/05/18 13:13)– Zone OFF:Z1,Z2
2.2	Some Zone Active	1234␣ZON␣ON␣Z1	Zone Status (22/05/18 13:13)– Zone ON:Z1
3.1	Some output Activation	1234␣OUTPUT␣ON␣0␣1␣2	Output Status (22/05/18 13:13)–Output ON:0,1,2
3.2	Some output Deactivation	1234␣OUTPUT␣OFF␣2	Output Status (22/05/18 13:13)–Output OFF:2

In order to let you know how many spaces are in the command, the symbol "␣" is used in the **Command**

column in Table 5-22 to indicate spaces. One "␣" stands for one space.

Table 5-23 Controller sending SMS to smartphone

No.	Meaning	Note	Content by controller

4.1.1	Wired zone1 alarm	—	Alarm Info (22/05/18 13:13)– Z1_Area:12345678
4.2.1	Wired zone1 tamper alarm	—	Alarm Info (22/05/18 13:13)– Z1 Tamper_Area:12345678
4.4.1	Main power Failure	—	System Info (22/05/18 13:13)– Main Power Failure
4.4.2	Main power Restore	—	System Restore (22/05/18 13:13)– Main Power Restore
4.5.1	Controller Low Battery	—	System Info (22/05/18 13:13)– Controller Low Battery
4.5.2	Controller Low Battery Restore	—	System Restore (22/05/18 13:13)– Controller Low Battery Restore
4.6.1	Controller Battery Failure	—	System Info (22/05/18 13:13)– Controller Battery Failure
4.6.2	Controller Battery Restore	—	System Restore (22/05/18 13:13)– Controller Battery Restore
4.7.1	Controller Tamper Alarm	—	System Info (22/05/18 13:13)- Controller Tamper Alarm
4.7.2	Controller Tamper Restore	—	System Restore (22/05/18 13:13)– Controller Tamper Restore
4.8.1	Siren Tamper Alarm	—	System Info (22/05/18 13:13)– Siren Tamper Alarm
4.8.2	Siren Tamper Restore	—	System Restore (22/05/18 13:13)– Siren Tamper Restore
4.9.1	TCP/IP Network Failure	—	System Info(22/05/18 13:13)– TCP/IP Network Failure
4.9.2	TCP/IP Network Restore	—	System Restore(22/05/18 13:13)– TCP/IP Network Restore
4.10.1	Keypad1 Failure	—	Module Info(22/05/18 13:13)– Keypad1 Failure
4.10.2	Keypad1 Restore	—	Module Restore(22/05/18 13:13)– Keypad1 Restore
4.11.1	Panic Alarm	Triggered by keypad	Emergency Info(22/05/18 13:13)– Panic Alarm
		Triggered by zone1	Emergency Info(22/05/18 13:13)– Panic Alarm:Z1_Area:12345678
4.11.2	Panic Alarm Restore	Triggered by keypad	Emergency Restore(22/05/18 13:13)– Panic Restore
		Triggered by zone1	Emergency Restore(22/05/18 13:13)– Panic Restore:Z1_Area:12345678
4.12.1	Duress Alarm	Triggered by keypad	Emergency Info(22/05/18 13:13)– Duress Alarm
		Triggered by zone1	Emergency Info(22/05/18 13:13)– Duress Alarm:Z1_Area:12345678
4.12.2	Duress Alarm Restore	Triggered by keypad	Emergency Restore(22/05/18 13:13)– Duress Restore

		Triggered by zone1	Emergency Restore(22/05/18 13:13)– Duress Restore:Z1_Area:12345678
4.13.1	Robbery Alarm	Triggered by keypad	Emergency Info(22/05/18 13:13)– Robbery Alarm
		Triggered by zone1	Emergency Info(22/05/18 13:13)– Robbery Alarm:Z1_Area:12345678
4.13.2	Robbery Alarm Restore	Triggered by keypad	Emergency Restore(22/05/18 13:13)– Robbery Restore
		Triggered by zone1	Emergency Restore(22/05/18 13:13)– Robbery Restore:Z1_Area:12345678
4.14.1	Medical Alarm	Triggered by keypad	Emergency Info(22/05/18 13:13)– Medical Alarm
		Triggered by zone1	Emergency Info(22/05/18 13:13)– Medical Alarm:Z1_Area:12345678
4.14.2	Medical Alarm Restore	Triggered by keypad	Emergency Restore(22/05/18 13:13)– Medical Restore
		Triggered by zone1	Emergency Restore(22/05/18 13:13)– Medical Restore:Z1_Area:12345678
4.15.1	Fire Alarm	Triggered by keypad	Emergency Info(22/05/18 13:13)– Fire Alarm
		Triggered by zone1	Emergency Info(22/05/18 13:13)– Fire Alarm:Z1_Area:12345678
4.15.2	Fire Alarm Restore	Triggered by keypad	Emergency Restore(22/05/18 13:13)– Fire Restore
		Triggered by zone1	Emergency Restore(22/05/18 13:13)– Fire Restore:Z1_Area:12345678
4.16.1	User4 Arm	User4 is Marguerite, she total arms	Area Status(22/05/18 13:13)– Area ON:12345678 by Marguerite
4.16.2	User4 Disarm	User4 is Marguerite, she disarm	Area Status (22/05/18 13:13)– Area OFF:12345678 by Marguerite

Table 5-24 Others

No.	Meaning	Note	Content shown on smartphone
5.1	F3(Total+3) test SMS function, display 'S' on keypad	—	*****SMS Test*****
5.2	System status	AC Power OK, Battery OK, No Alarm Exist	System Status (22/05/18 13:13)-
5.3	AC Power: OK-Battery: OK-Alarm Exist: NO	—	—

5.21 DIGITAL FORMAT

Step 1 After entering the Installer Menu, press $\boxed{\wedge}$ and $\boxed{\vee}$ to scroll up and down until you reach the

DIGITAL FORMAT menu. See Figure 5-25.

Figure 5-25 Digital format

```
〈19〉
DIGITAL FORMAT
```

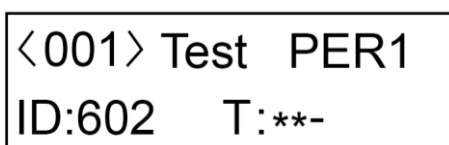Step 2 Press $\boxed{\text{ENTER}}$ to enter the programming mode.

Step 3 Configure the programming settings. See Table 5-25.

Take Event No.001 as an example. See Figure 5-26.

Figure 5-26 Periodic test

```
〈001〉Test  PER1
ID:602    T:**-
```

T represents telephone number. To select which telephone number to be linked, on this interface,

press $\boxed{\text{ENTER}}$, the telephone number linkage setting interface is shown. See Figure 5-27.

- PSTN TEL1, PSTN TEL2, PSTN TEL3: Three telephone numbers mentioned in Monitor Station menu.
- TRUE: Links this telephone number
- FALSE: Does not link this telephone number.

Figure 5-27 Telephone number linkage

```
PSTN  TEL1
TRUE
```

Table 5-25 Digital format setting

Category	Event No.	Setting	CID Code
System report code group	001	Periodic Test	602
	002	Reserved	Reserved
	003	AC Loss	301
	004	Low System Battery	302
	005	System Battery Failure	309
	006	Telephone Line Failure	351
	007	No GSM Field	352
	008	System Tamper	137
	009	Siren Tamper	137
	010	Reserved	Reserved

Category	Event No.	Setting	CID Code
	011	Reserved	Reserved
	012	System Date/Time Failure	626
	013	SIM Failure	350
	014	TCP Network Failure	350
	015	Autotest Failure (For example, Fuses)	307
Module report code group	030	Keypad Failure	333
	031	Keypad Tamper	145
Emergency Report Code Group	060	Panic Alarm	120
	061	Duress Alarm	121
	062	Robbery Alarm	122
	063	Medical Alarm	100
	064	Fire Alarm	110
Arming/Disarming Report Code Group	070	Rapid Arming	408
	072	Key Input Arming	409
	073	Key Input Disarming	409
	074	Monitor Arming	407
	075	Monitor Disarming	407
	082	Timer 1 Arming	403
	083	Timer 1 Disarming	403
	📖		
	Arming Event No. = (Timer No. x 2) + 80. Maximum 60 Timers.		
	114	Access Code1 Arming	401
	115	Access Code 1 Disarming	401
	📖		
	Arming Event No. = (Access Code No. x 2) + 112. Maximum 99 Access Codes.		
Zone Report Code Group	346	Wired Zone 1 Alarm	130
	347	Wired Zone 2 Alarm	130
	348	Wired Zone 3 Alarm	130
	349	Wired Zone 4 Alarm	130
	350	Wired Zone 5 Alarm	130
	351	Wired Zone 6 Alarm	130
	352	Wired Zone 7 Alarm	130
	353	Wired Zone 8 Alarm	130
	354	Wired Zone 1 Tamper	144
	355	Wired Zone 2 Tamper	144

Category	Event No.	Setting	CID Code
	356	Wired Zone 3 Tamper	144
	357	Wired Zone 4 Tamper	144
	358	Wired Zone 5 Tamper	144
	359	Wired Zone 6 Tamper	144
	360	Wired Zone 7 Tamper	144
	361	Wired Zone 8 Tamper	144
	362	Wired Zone 1 Exclusion	570
	363	Wired Zone 2 Exclusion	570
	364	Wired Zone 3 Exclusion	570
	365	Wired Zone 4 Exclusion	570
	366	Wired Zone 5 Exclusion	570
	367	Wired Zone 6 Exclusion	570
	368	Wired Zone 7 Exclusion	570
	369	Wired Zone 8 Exclusion	570

Step 4 Press [ESC] to return to the DIGITAL FORMAT menu.

Then you can press [^] and [v] to move to the next menu or press [ESC] to exit from the Installer Menu.

5.22 TCP/IP NETWORK

Step 1 After entering the Installer Menu, press [^] and [v] to scroll up and down until you reach the TCP/IP NETWORK menu. See Figure 5-28.

Figure 5-28 TCP/IP network

⟨20⟩
TCP/IP NETWORK

Step 2 Press [ENTER] to enter the programming mode.

Step 3 Configure the settings. See Table 5-26.

Table 5-26 TCP/IP network setting

Submenu	Setting
DHCP	• YES: Select YES if the automatic assignment mode for the IP address is active on the network. • NO: Select NO is the address setting is done manually in the next programing steps.

Submenu	Setting
IP ADDRESS	Configure this setting only if DHCP is set to NO. Set the IP address that the control panel will have within the network. Consult the network administrator if you do not know the details.
SUBNET	Configure this setting only if DHCP is set to NO. Set the correct SUBNET that the Control Panel will use to exit the WAN network (Router). Consult the network administrator if you do not know the details. Normally, the standard value is 255.255.255.000.
GATEWAY	Set the GATEWAY address that the control panel will use to exit the WAN network (Router). Consult the network administrator if you do not know the details. Normally, the GATEWAY is the IP address of the Router in the network.
PORT	The WEB PORT that is used for connecting the Alarm Config Tool installed on PC. The default value is 09000 and cannot be changed.
REMOTE CONF	● ON: Allow the Control Panel to connect the Alarm Config Tool. ● OFF: Do not allow the Control Panel to connect the Alarm Configu Tool.

Step 4 Press [ESC] to return to the TCP/IP NETWORK menu.

Then you can press [^] and [v] to move to the next menu or press [ESC] to exit from the Installer Menu.

5.23 LOG EVENT

Step 1 After entering the Installer Menu, press [^] and [v] to scroll up and down until you reach the LOG EVENT menu. See Figure 5-29.

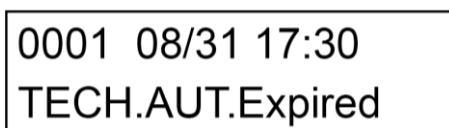Figure 5-29 Log event

```
⟨21⟩
LOG EVENT
```

Step 2 Press [ENTER] to enter the submenu that shows the latest stored event. See Figure 5-30.

Figure 5-30 The latest stored event

```
0001  08/31 17:30
TECH.AUT.Expired
```

- The first line shows the event with its number and the date and time.
- The second line shows the event details.

Step 3 Press [^] and [v] to select the log event.

Step 4 (Optional) For some events, you can press [ENTER] to extend the display to view more details of the event.

Step 5 Press [ESC] to return to the log event selection menu.

Then you can continue with viewing other log events, or press [ESC] to return to the LOG EVENT

menu from where you can press [^] and [∨] to move to the next menu or press [ESC] to exit

from the Installer Menu.

5.24 2G/4G MODULE

Step 1 After entering the Installer Menu, press [^] and [∨] to scroll up and down until you reach the

2G/4G MODULE menu. See Figure 5-31.

Figure 5-31 2G/4G module

```
⟨22⟩
2G/4G MODULE
```

Step 2 Press [ENTER] to enter the programming mode.

Step 3 Configure the settings. See Table 5-27.

Table 5-27 2G/4G module setting

Submenu	Setting
2G/4G ENABLE	● YES ● NO
P2P ENABLE	● ENABLE: Enables the DMSS app to access the Control Panel. ● DISABLE: Disables the DMSS app to access the Control Panel.

Step 4 Press [ESC] to return to the 2G/4G MODULE menu.

Then you can press [^] and [∨] to move to the next menu or press [ESC] to exit from the

Installer Menu.

5.25 LANGUAGE

Step 1 After entering the Installer Menu, press [^] and [∨] to scroll up and down until you reach the

LANGUAGE menu. See Figure 5-32.

Figure 5-32 Language

```
⟨23⟩
LANGUAGE
```

Step 2 Press [ENTER] to enter the programming mode.

Step 3 Press [^] and [∨] to select a system language.

Step 4   Press [ESC] to return to the LANGUAGE menu.

Then you can press [^] and [⌄] to move to the next menu or press [ESC] to exit from the Installer Menu.

6 Alarm Config Tool

The Alarm Config Tool is for Installers to configure alarm control parameters.

6.1 Introducing the Main Interface

Figure 6-1 Main interface
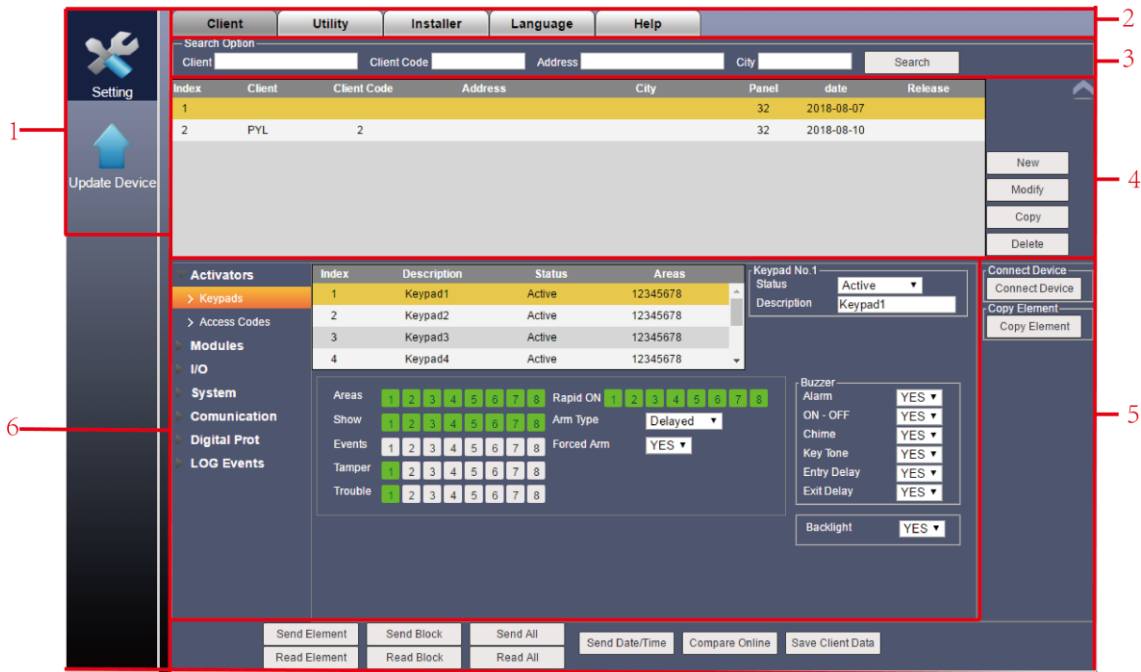
Table 6-1 Main interface introduction

No.	Name	Description
1	Menu	Includes two menus: **Setting** and **Update Device**. For details, see "6.2 Setting" and "6.3 Updating Device."
2	Function tabs	Displays the functions tabs of **Setting** that you can configure or view.
3	Search option	You can search details of each client according to the client number, client code, address, or city. You can enter details of one or two of the four items to search.
4	Client management	You can add new clients and enter detailed information. You can also modify, copy, and delete the existing records.
5	Functions buttons	● Connect Device: You can connect the Alarm Config Tool to the alarm control panel. ● Copy Element: You can copy elements of Activators, Modules, I/O, System, Communication, Digital Port, and LOG Events and send them to the alarm control panel.

No.	Name	Description
6	Parameters	You can configure parameters and enter related information for activators, modules, I/O, system, communication, digital prompt, and log events.

6.2 Setting

In the Setting Module, you can configure parameters that are related to clients, utility, installers and language. You can also get help in this part.

6.2.1 Client

In this section, you can search, manage, and configure parameters for clients.

6.2.1.1 Managing a Client

You can add new clients, modify, copy, and delete client information.

Adding a Client

Step 1 Click **New**.

The **New Client Profile** interface is displayed. See Figure 6-2.

Figure 6-2 New client profile

Step 2 Enter client code, release time number, client number, address, city, state, and ZIP.

Step 3 In the **Controller Address** area, enter the IP address and port.

Step 4 Click **Yes**.

A new client is added.

📖

- Communication: Displays computer IP address and controller IP address and Port.
- User Info: You can enter two users' names, addresses, telephone numbers and more.
- Client Note: You can record your operation histories.

Modifying a Client

You can modify information that you entered.

Step 1 Move your mouse cursor to a row, and click the left mouse button.

The row you clicked turns orange.

Step 2 Click **Modify**.

The **Modify Client Profile** interface is displayed.

Step 3 Modify the items you want to modify.

Step 4 Click **Yes** to save information that you modified

Copying a Client

When details of a client you are to add are the same as the existing one in the list, you can copy information of one client in the list to quickly add a new client.

Step 1 Move your mouse cursor to the row you want to copy, and click the left mouse button.

The row you clicked turns orange.

Step 2 Click **Copy**.

A new client with same information as the one you copied is added.

Deleting a Client

You can delete any client in the list.

Step 1 Move your mouse cursor to the row you want to delete, and click the left mouse button.

The row you clicked turns orange.
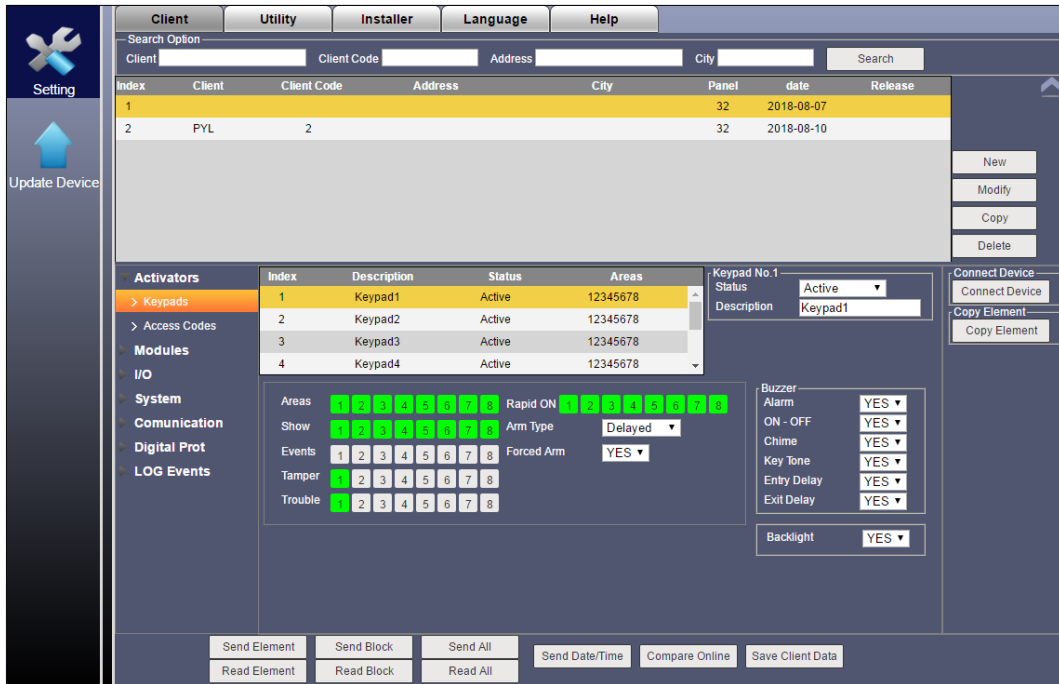
Step 2 Click **Delete**.

The row you selected is deleted.

6.2.1.2 Searching a Client

Step 1 Select **Setting > Client**.

The **Client** interface is shown. See Figure 6-3.

Figure 6-3 Client

Step 2 Enter the searching options.

Step 3 Click **Search**.

The clients you want to search will be shown.

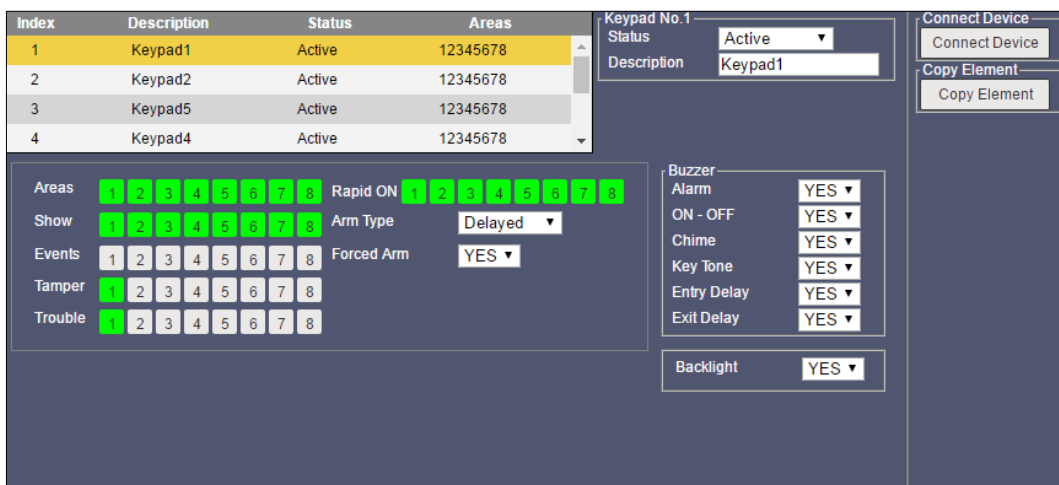## 6.2.1.3 Configuring Client Parameters

Activator

In **Activator**, you can configure parameters for keypads and access codes.

Keypads

On the Client interface, select **Activator > Keypads**, and the **Keypads** interface is shown. See Figure 6-4. You can start configuring the parameters if needed, and the settings will be effective in real time.

Figure 6-4 Keypads

Access Codes

On the Client interface, select **Activator > Access Codes**, and the **Access Codes** interface is shown. See Figure 6-5. You can start configuring the parameters if needed, and the settings will be effective in real time.

Figure 6-5 Access codes

Modules

On the Client interface, select **Modules > Power Supplies**, and the **Power Supplies** interface is shown. See Figure 6-6. You can start configuring the parameters if needed, and the settings will be effective in real time.

Figure 6-6 Power Supplies

I/O

In **I/O**, you can configure parameters for **Wired Zones**, **IN AND ZONES**, and **Output**.

Wired Zones

On the Client interface, select **I/O > Wired Zones**, and the **Wired Zones** interface is shown. See Figure 6-7. You can start configuring the parameters if needed, and the settings will be effective in real time.

Figure 6-7 Wired zones

In And Zones

On the Client interface, select **I/O > In And Zones**, and the **In And Zones** interface is shown. See Figure 6-8. You can start configuring the parameters if needed, and the settings will be effective in real time.

Figure 6-8 In And Zones

Outputs

On the Client interface, select **I/O > Outputs**, and the **Outputs** interface is shown. See Figure 6-9. You can start configuring the parameters if needed, and the settings will be effective in real time.

Figure 6-9 Output

System

In **System**, you can configure parameters for **Areas**, **SYS Functions**, **2G/4G SYS Timings**, **Timers**, and **Holidays**.

Areas

On the Client interface, select **System > Areas**, and the **Areas** interface is shown. See Figure 6-10. You can start configuring the parameters if needed, and the settings will be effective in real time.

Figure 6-10 Areas

SYS Functions

On the Client interface, select **System > SYS Functions**, and the **SYS Functions** interface is shown. See Figure 6-11. You can start configuring the parameters if needed, and the settings will be effective in real time.

Figure 6-11 SYS Functions

2G/4G

On the Client interface, select **System > 2G/4G**, and the **2G/4G** interface is shown. See Figure 6-12. You can start configuring the parameters if needed, and the settings will be effective in real time.

Figure 6-12   2G/4G

SYS Timings

On the Client interface, select **System > SYS Timing**, and the **SYS Timing** interface is shown. See Figure 6-13. You can start configuring the parameters if needed, and the settings will be effective in real time.

Figure 6-13 SYS timing

Timers

On the Client interface, select **System > Timers**, and the **Timers** interface is shown. See Figure 6-14. You can start configuring the parameters if needed, and the settings will be effective in real time.

Figure 6-14 Timers

Holidays

On the Client interface, select **System > Holidays**, and the **Holidays** interface is shown. See Figure 6-15. You can start configuring the parameters if needed, and the settings will be effective in real time.

Figure 6-15 Holidays

Communication

In **Communication**, you can configure parameters for **Communicator**, **Telephone No.**, and **Vocal Message**.

Communicator

On the Client interface, select **Communication > Communicator**, and the **Communicator** interface is shown. See Figure 6-16. You can start configuring the parameters if needed, and the settings will be effective in real time.

Figure 6-16 Communicator

Telephone No.

On the Client interface, select **Communication > Telephone No**, and the **Telephone No** interface is shown. See Figure 6-17. You can start configuring the parameters if needed, and the settings will be effective in real time.

Figure 6-17 Telephone No

📖

At the top right corner of Figure 6-17, you can select **Voice**, **SMS**, or **SMI Number** as Telephone No. type.

Vocal Message

On the Client interface, select **Communication > Vocal Message**, and the **Vocal Message** interface is shown. See Figure 6-18. You can start configuring the parameters if needed, and the settings will be effective in real time.

Figure 6-18 Vocal Message

Digital Port

In **Digital Port**, you can configure parameters for **Setting**, **SYS Event**, **Module Event**, **Emergency Event**, **Arm/Disarm Event** and **Zones Event**.

Setting

On the Client interface, select **Digital Port > Setting**, and the **Setting** interface is shown. See Figure 6-19. You can start configuring the parameters if needed, and the settings will be effective in real time.

Figure 6-19 Setting

SYS Event

On the Client interface, select **Digital Port > SYS Event**, and the **SYS Event** interface is shown. See Figure 6-20. You can start configuring the parameters if needed, and the settings will be effective in real time.

Figure 6-20 SYS Event

Event No.	Description	Id	TEL.1	TEL.2	TEL.3	Rip	SMS	Rip
0001	Period Test	602	YES	YES	YES	YES	NO	YES
0002	System Trouble	300	YES	YES	YES	YES	YES	YES
0003	Main Power Failure	301	YES	YES	YES	YES	YES	YES
0004	Controller Low Battery	302	YES	YES	YES	YES	YES	YES
0005	Controller Battery Failure	309	YES	YES	YES	YES	YES	YES
0006	Telephone Line Trouble	351	YES	YES	YES	YES	YES	YES
0007	No GSM Field	352	YES	YES	YES	YES	YES	YES
0008	Controller Tamper	137	YES	YES	YES	YES	YES	YES
0009	Siren Tamper	137	YES	YES	YES	YES	YES	YES
0010	Bus1 Communication Trouble	354	YES	YES	YES	YES	YES	YES
0011	Bus2 Communication Trouble	354	YES	YES	YES	YES	YES	YES

Event:1-Period Test

| Contact ID | 602 | | | | | | SMS | YES ▼ |
| TEL.1 | YES ▼ | TEL.2 | YES ▼ | TEL.3 | YES ▼ | Restore | YES ▼ | Restore | YES ▼ |

Module Event

On the Client interface, select **Digital Port > Module Event**, and the **Module Event** interface is shown. See Figure 6-21. You can start configuring the parameters if needed, and the settings will be effective in real time.

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Figure 6-21 Module Event

Event No.	Description	Id	TEL.1	TEL.2	TEL.3	Rip	SMS	Rip
0030	Keypad Trouble	333	YES	YES	YES	YES	NO	YES
0031	Keypad Tamper	145	YES	YES	YES	YES	NO	YES
0043	Power Supply Communication Trouble	333	YES	YES	YES	YES	NO	YES
0044	Power Supply Tamper	145	YES	YES	YES	YES	YES	YES

Event:30-Keypad Trouble

| Contact ID | 333 | | | | | SMS | YES ▾ |
| TEL.1 | YES ▾ | TEL.2 | YES ▾ | TEL.3 | YES ▾ | Restore | YES ▾ | Restore | YES ▾ |

Emergency Event

On the Client interface, select **Digital Port > Emergency Event**, and the **Emergency Event** interface is shown. See Figure 6-22. You can start configuring the parameters if needed, and the settings will be effective in real time.

Figure 6-22 Emergency Event

Event No.	Description	Id	TEL.1	TEL.2	TEL.3	Rip	SMS	Rip
0060	Panic Alarm	120	YES	YES	YES	YES	NO	YES
0061	Duress Alarm	121	YES	YES	YES	YES	YES	YES
0062	Robbery Alarm	122	YES	YES	YES	YES	YES	YES
0063	Medical Alarm	100	YES	YES	YES	YES	YES	YES
0064	Fire Alarm	110	YES	YES	YES	YES	YES	YES

Event:60-Panic Alarm

| Contact ID | 120 | | | | | SMS | YES ▾ |
| TEL.1 | YES ▾ | TEL.2 | YES ▾ | TEL.3 | YES ▾ | Restore | YES ▾ | Restore | YES ▾ |

Arm/Disarm Event

On the Client interface, select **Digital Port > Arm/Disarm Event**, and the **Arm/Disarm Event** interface is shown. See Figure 6-23. You can start configuring the parameters if needed, and the settings will be effective in real time.
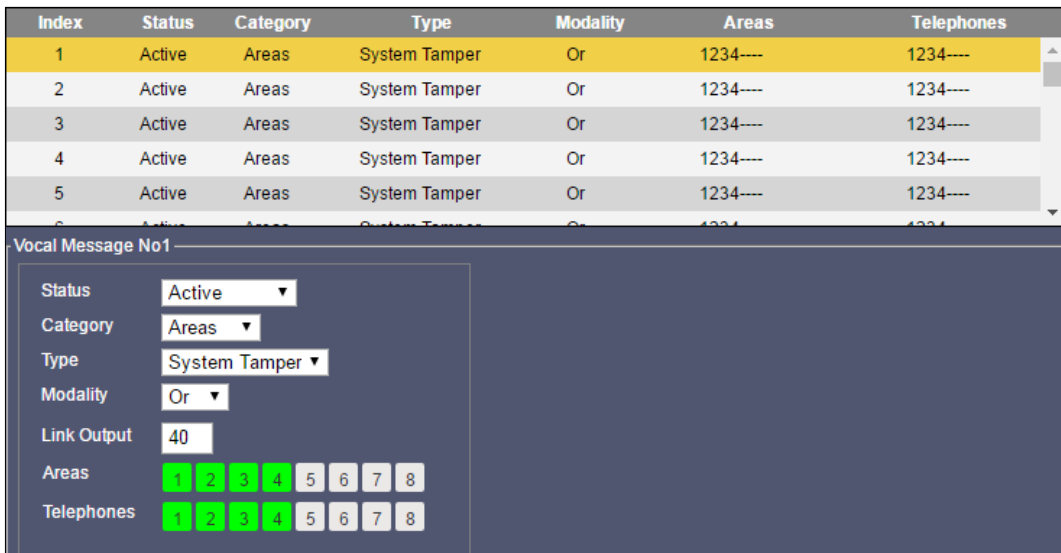
Figure 6-23 Emergency Event

Event No.	Description	Id	TEL.1	TEL.2	TEL.3	Rip	SMS	Rip
0070	Rapid Arm	408	YES	YES	YES	YES	NO	YES
0072	Key Input Arm	409	YES	YES	YES	YES	YES	YES
0073	Key Input Disarm	409	YES	YES	YES	YES	YES	YES
0074	Monitor Arm	407	YES	YES	YES	YES	YES	YES
0075	Monitor Disarm	407	YES	YES	YES	YES	YES	YES
0082	Timer Arm 01	403	YES	YES	YES	YES	YES	YES
0083	Timer Disarm 01	403	YES	YES	YES	YES	YES	YES
0084	Timer Arm 02	403	YES	YES	YES	YES	YES	YES
0085	Timer Disarm 02	403	YES	YES	YES	YES	YES	YES
0086	Timer Arm 03	403	YES	YES	YES	YES	YES	YES
0087	Timer Disarm 03	403	YES	YES	YES	YES	YES	YES
0088	Timer Arm 04	403	YES	YES	YES	YES	YES	YES

Event:70-Rapid Arm
Contact ID: 408
TEL.1: YES ▾ TEL.2: YES ▾ TEL.3: YES ▾ Restore: YES ▾
SMS: YES ▾ Restore: YES ▾

Zones Event

On the Client interface, select **Digital Port > Zones Event**, and the **Zones Event** interface is shown. See Figure 6-24. You can start configuring the parameters if needed, and the settings will be effective in real time.

Figure 6-24 Zone event

Event No.	Description	Id	TEL.1	TEL.2	TEL.3	Rip	SMS	Rip
0346	Wired Zone Alarm 001	130	NO	NO	NO	NO	NO	NO
0347	Wired Zone Alarm 002	130	NO	NO	NO	NO	NO	NO
0348	WireZone Arm 003	130	NO	NO	NO	NO	NO	NO
0349	WireZone Disarm 004	130	NO	NO	NO	NO	NO	NO
0350	WireZone Arm 005	130	NO	NO	NO	NO	NO	NO
0351	WireZone Disarm 006	130	NO	NO	NO	NO	NO	NO
0352	WireZone Arm 007	130	NO	NO	NO	NO	NO	NO
0353	WireZone Disarm 008	130	NO	NO	NO	NO	NO	NO
0410	Wired Zone Tamper 001	144	NO	NO	NO	NO	NO	NO
0411	Wired Zone Tamper 002	144	NO	NO	NO	NO	NO	NO
0412	Wired Zone Tamper 003	144	NO	NO	NO	NO	NO	NO
0413	Wired Zone Tamper 004	144	NO	NO	NO	NO	NO	NO

Event:346-Wired Zone Alarm 001
Contact ID: 130
TEL.1: NO ▾ TEL.2: NO ▾ TEL.3: NO ▾
SMS: NO ▾

LOG Events

In Log Events, you can record, read and print event logs.

On the Client interface, select **LOG Events > LOG Events**, and the **LOG Events** interface is shown. See Figure 6-25. You can start configuring the parameters if needed, and the settings will be effective in real time.

Figure 6-25 Log events
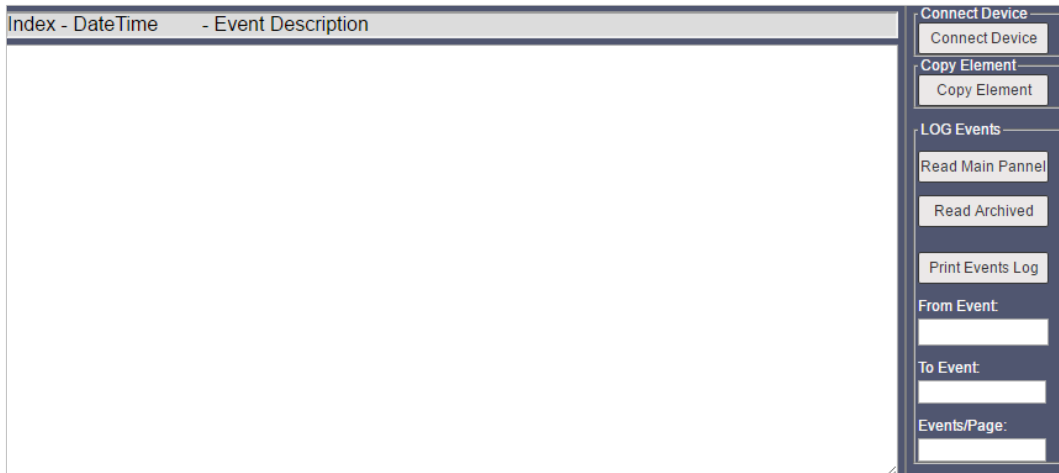
Table 6-2 Functions of buttons

No.	Name	Function
1	Read main panel	Click **Read Main Panel**, you can read logs recorded in the alarm control panel.
2	Read archived	Click **Read Archived**, you can read logs that were saved to your computer.
3	Print event log	Click **Print Event**, enter from which event to which event you want to print in the **From Event** box and **To Event** box, and you can print the file in PDF form. 📖 **Events/Page** means the numbers of events on one page of the PDF file.

6.2.2 Utility

Click **Utility**, and the **Import/Export** box is shown. See Figure 6-26. You can start importing or exporting clients, and the settings will be effective in real time.
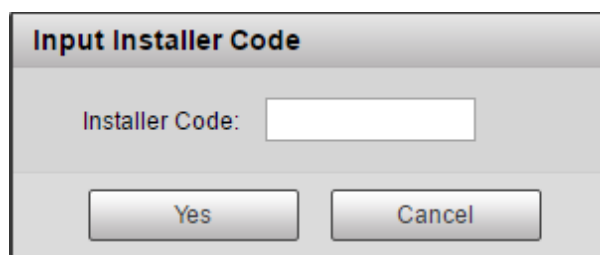
Figure 6-26 Import/Export
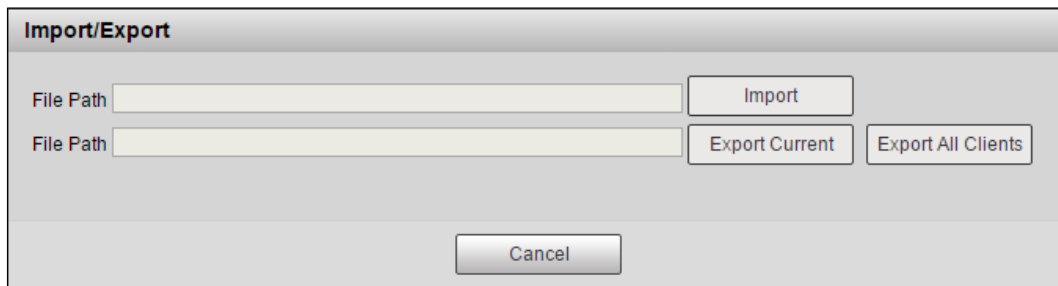
6.2.3 Installer

Click **Installer**, and the **Input Installer Code** box is shown. See Figure 6-27. You can input the installer code.
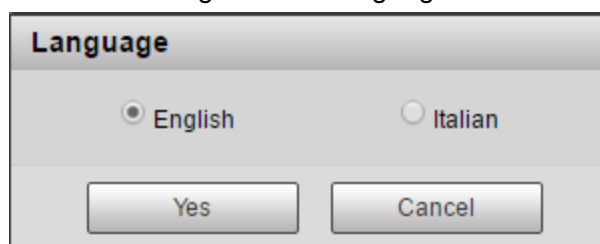
Figure 6-27 Input Installer Code

6.2.4 Language

Click **Language**, and the **Language** box is shown. See Figure 6-28Figure 6-11. You can select English or Italian.

Figure 6-28 Language

6.3 Updating Device
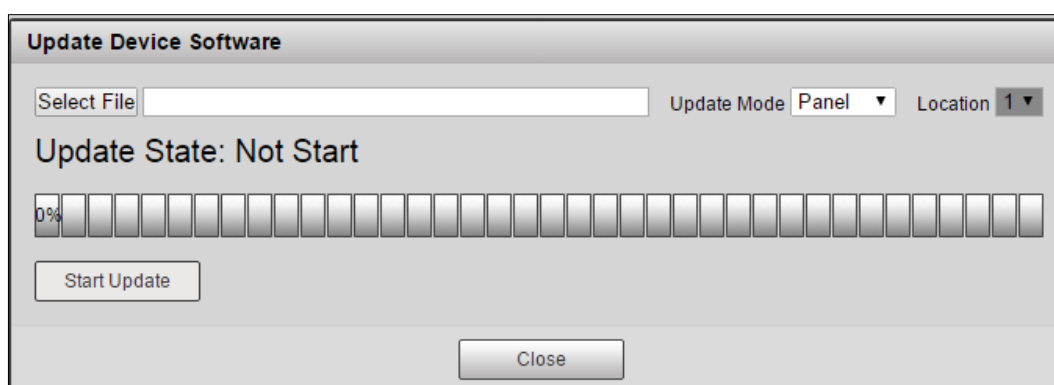
Keep the power supply during upgrading; otherwise the Alarm Control Panel might not work and must be sent back to factory for repair.

Step 1   Click **Update Device**.

The **Update Device Software** box is shown. See Figure 6-29Figure 6-11.

Figure 6-29 Update Device Software

Step 2   In the **Update Mode** list, select **Panel** or **Keypad** depending on your requirement. If you select **Keypad**, then you need to select the corresponding RS-485 address number from the **Location** list.

Step 3   Click **Select File** to select the corresponding upgrading file for **Panel** or **Keypad**.

Step 4   Click **Start Update** and then follow the onscreen instructions to complete upgrading.

7 Using DMSS Plus App

You can remotely manage the Alarm Control Panel from DMSS Plus App.

7.1 Installing DMSS Plus App

Use your smart phone to scan the following QR code to download and install DMSS Plus App.

iOS   Android OS

7.2 Adding Alarm Control Panel

Step 1   Open the DMSS Plus App, go to the **Home** interface, and then tap **Alarm**.
The **Alarm Device** interface is displayed. See Figure 7-1.

Figure 7-1 Alarm device
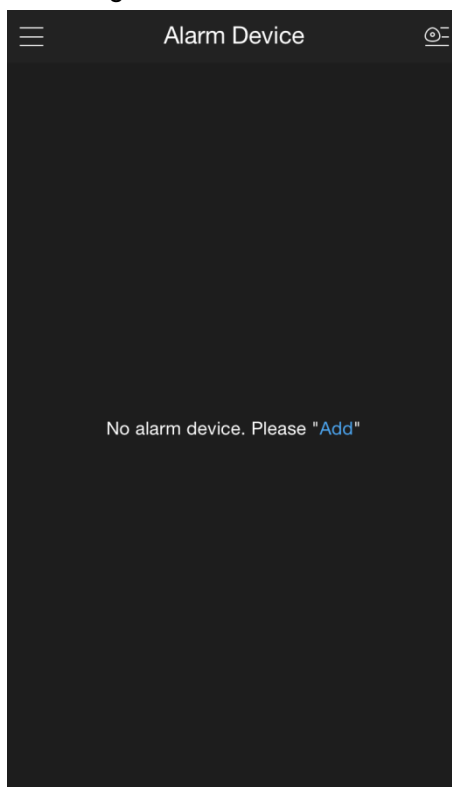
Step 2   Tap **Add**.
The **Add Device** interface is displayed. See Figure 7-2.

Figure 7-2 Add alarm device
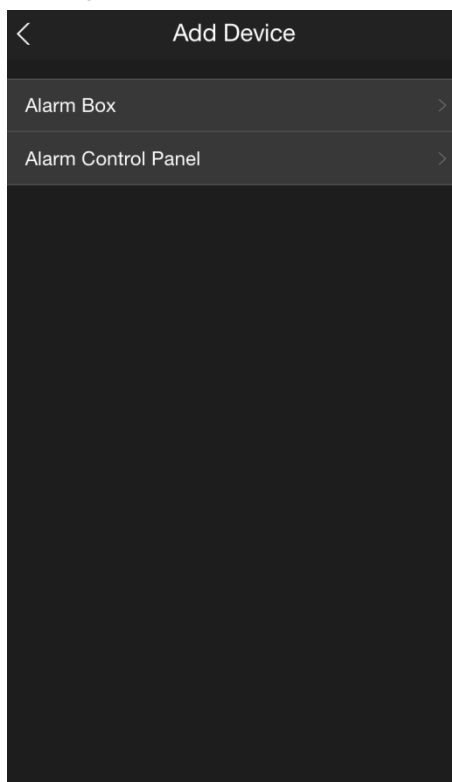
Step 3 Tap **Alarm Control Panel > P2P**.

The **P2P** interface is displayed. See Figure 7-3.

Figure 7-3 P2P
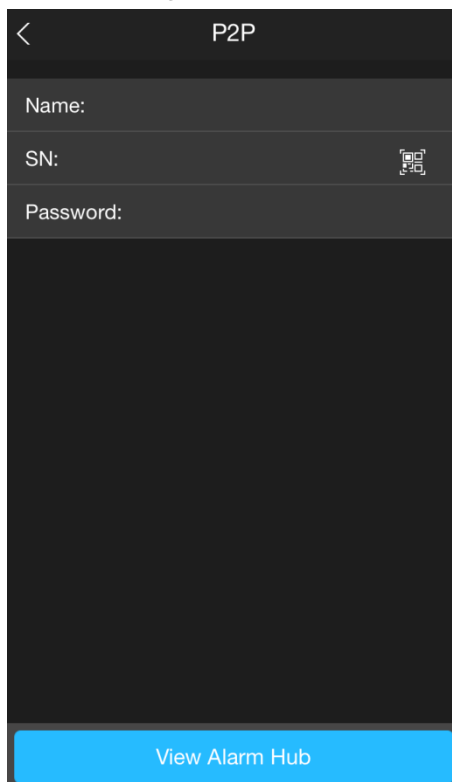
Step 4 Enter a name, serial number, and password to connect the alarm control panel, and then tap **View Alarm Hub**.

The **Security** tab of **Alarm Control Panel** interface is displayed if it is successfully added. See Figure 7-4.

Figure 7-4 Alarm control panel
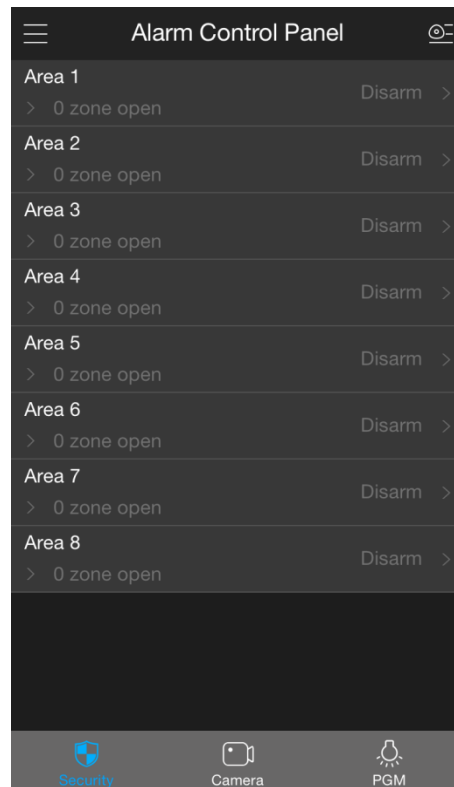
You can also add alarm control panels by scanning the bar code on the Control Panel or by scanning the QR code on the carton.

7.3 Area Arming and Disarming

Take Area 1 arming as an example.

Step 1   On the **Security** tab of **Alarm Control Panel** interface, tap **Area 1**.

The **Area 1** interface is displayed. See Figure 7-5.

Figure 7-5 Area 1
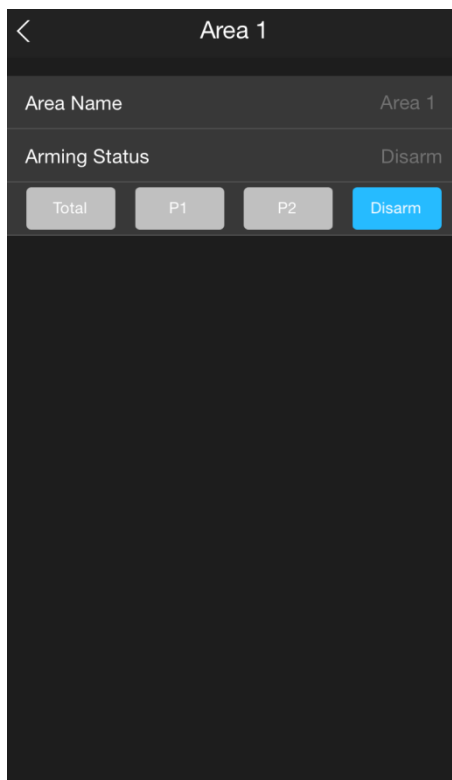
Step 2 Select arming type from **Total**, **P1**, and **P2**. P1 and P2 can be selected at the same time.
Take selecting **Total** as an example. See Figure 7-6.

Figure 7-6 Total arming
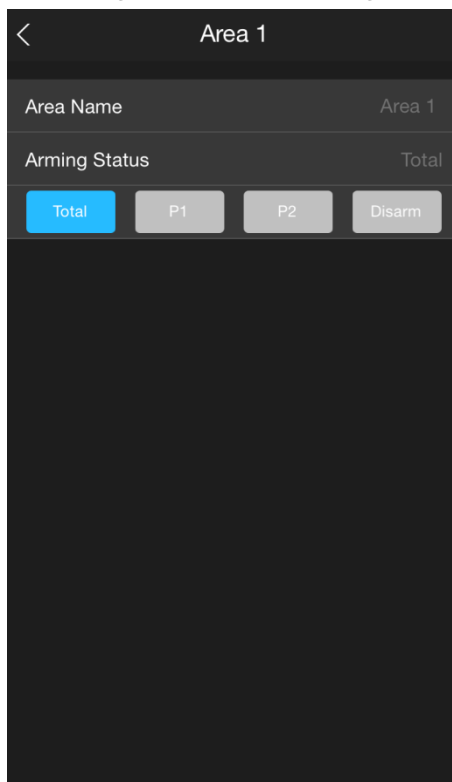
To disarm the area, on the **Area 1** interface, tap **Disarm**.

7.4 Zone Settings

Take Zone 1 under Area 1 as an example.

Step 1 Tap **0 zone open**.

The protection zones are displayed. See Figure 7-7.

Figure 7-7 Protection zones
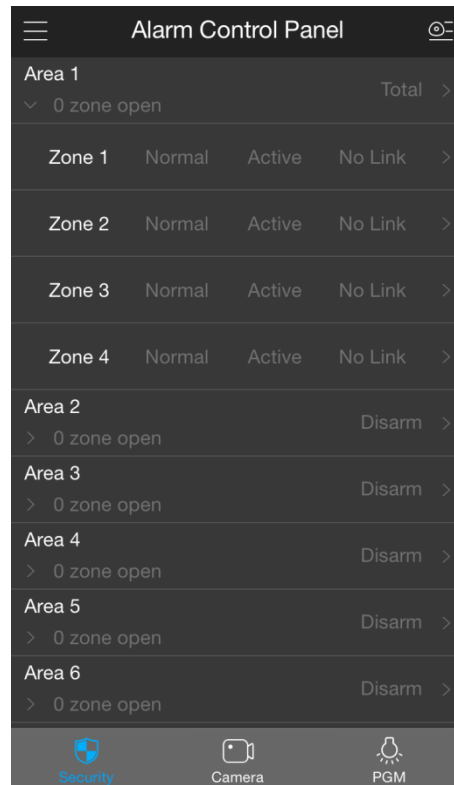
Step 2 Tap **Zone 1**.

The **Zone 1** interface is displayed. See Figure 7-8.

Figure 7-8 Zone 1
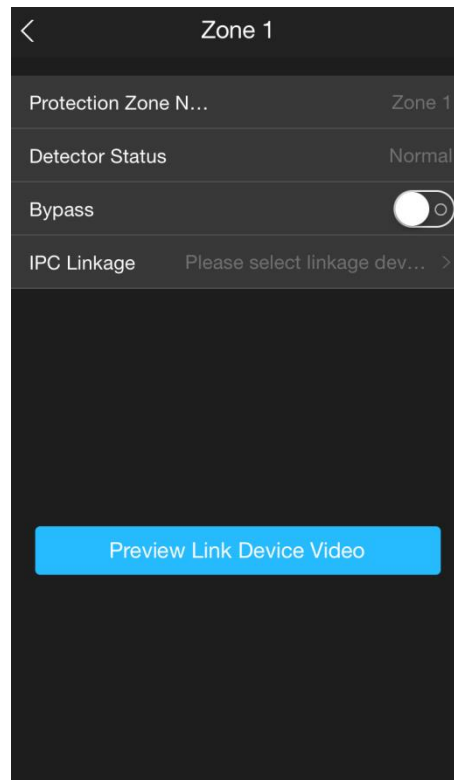
Step 3 Configure the Zone 1 parameters.

- Protection Name: Tap to edit the zone name, for example, enter Front Gate.

- Detector Status: Indicates the detector status that includes normal, open, tamper, anti-mask, and short-circuit.
- Bypass: Switch the button to turn it to , then this zone will be bypassed.
- IPC Linkage: Tap to select an IPC channel, for example, select Channel 01, and then tap **Preview Linked IPC Video** to enter the real-time monitoring interface.

Figure 7-9 Configured zone 1
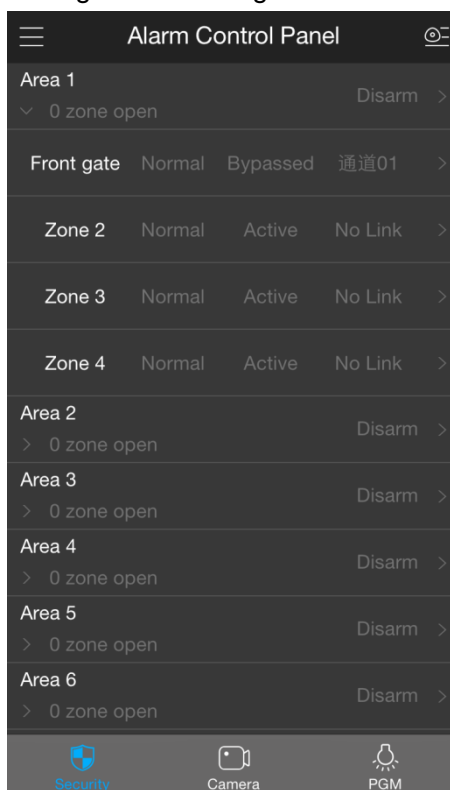
7.5 Viewing Linked IPC Channels

On the **Alarm Control Panel** interface, tap the **Camera** tab. The Live Preview interface is displayed, then you can view the linked videos. See Figure 7-10.

Figure 7-10 Live preview of linked IP cameras
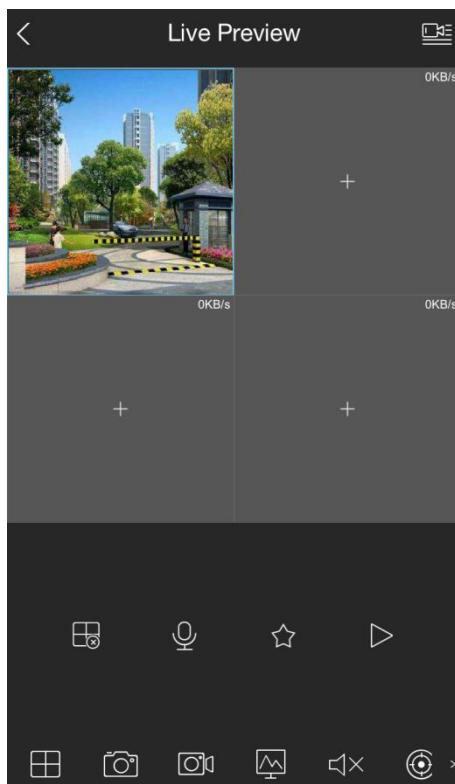
7.6 Siren Output Settings

On the **Alarm Control Panel** interface, tap the **PGM** tab. The siren output setting interface is displayed, see Figure 7-11. You can edit the name of output and enable or disable it.

Figure 7-11 Siren output
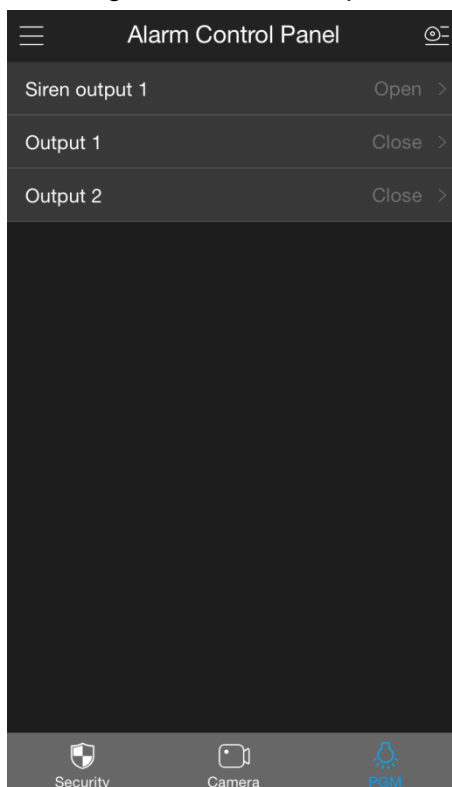
Appendix 1 Keypad Buzzer Sound

Appendix table 1-1 Keypad sound

Buzzer sound	Description
One slight beep	Keypad pressing.
One beep	Menu entering.
Continuous three beeps	● Switching between the first menu and the last menu after login the system. ● Authorizing the TECHNICIAN to access Installer Menu.
Two beeps, first short and second long	● Login fault. ● Access code modification fault. ● Bypass failed.

Appendix 2 Event Log Messages

Appendix table 2-1 Event log messages

Event message	Description	Event message	Description
P1.Arm	Partitial1 Arm	AL.	Alarm
P2.Arm	Partitial2 Arm	S.T.RES	Siren Tamper Restore
AL.PAN.	Panic Alarm	AL.S.T	Siren Tamper Alarm
AL.ROB.	Robbery Alarm	TAM.	Tamper
AL.MED.	Medical Alarm	Keypad TAM. RES.	Keypad Tamper Restore
AL.Fire	Fire Alarm	AL.K.T	Keypad Tamper Alarm
WD.Zone	Wired Zone	COMM.	Communication
WD.Z	Wired Zone	COMM.Restore	Communication Restore
AL.TAM.	Tamper Alarm	AL.C.T	Communication Trouble Alarm
AL.AM.	Anti-Mask Alarm	AL.COMM.Trouble	Communication Trouble Alarm
LOWBAT.	Low Battery	2G/4G COMM.RES.	2G/4G Communication Restore
WL.Zone	Wireless Zone	PSTN COMM.RES.	PSTN Communication Restore
WL.Z	Wireless Zone	PSTN ACT.	PSTN Activation
Access Code ERR.	Access Code Error	IN.MODU.TAM.RES.	Input Module Tamper Restore
PROG.Mode End	User Program Mode End	IN.M.T	Input Module Tamper
TECH.AUT.Expired	TECHNICIAN Authorization Expired	AL.IN.Module TAM	Input Module Tamper Alarm
Technician AUT.	TECHNICIAN Authorization	IN.Module	Input Module
User PROG.Mode	User Program Mode	OUT.MODU.TAM.RES	Output Module Tamper Restore
TECH.PROG.M	TECHNICIAN Program Mode	OUT.M.T	Output Module Tamper
TECH.PROG.Mode	TECHNICIAN Program Mode	OUT.Module TAM.	Output Module Tamper
TROU.	Trouble	WL.	Wireless
SYS.BAT.TROU.	System Battery Trouble	WL.IN.M.T.RES.	Wireless Input Module Tamper Restore
SYS.BAT.Low.VOL.	System Battery Low Voltage	WLI.M.T	Wireless Input Module Tamper
SYS.BAT. Restore	System Battery Restore	WL.IN.MODU.TAM	Wireless Input Module Tamper
SYS.	System	WL IN.Module	Wireless Input Module
RES.	Restore		

Appendix 3 Installer Menu Map

KEYPADS

Keypad 1–8

STATE

AREA

SHOW

EVENTS

TAMPER

TROUBLE

RAPID

BUZ.ON/OFF

BUZ.ENTRY

BUZ.EXIT

BUZ.ALARM

BUZ.CHIME

KEYPAD BEEP

BACKLIGHT

BUS ERRORS

COMMUNICATOR

PRIORITY

ATTEMPTS

PSTN TROU

GSM TROU

SIM TYPE

OPERATOR NUM

SMS INSTRUCTION

POWER SUPPLIES

TROUBLE

WIRED ZONES

Wired Zone 1–8

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TERMINATION

AREA

BYPASS

PARTITION1

PARTITION2

AUTO BYPASS

ALARM

ALARM CYCLE

ALARM REPEAT

OUTPUT LINK

IN AND ZONES

IN AND ZONE 1–8

STATE

ZONE1

ZONE2

IN SEQUENCE

TRIGGERS

AND TIME

OUTPUTS

Output 1–40

STATE

CATEGORIES

AREAS

ZONES

LINK

GENERIC

SYSTEM

TYPE

POLAR

AREAS

Area 1–8

ENTRY D1

ENTRY D2

EXIT DELAY

BUZ DUR

BUZ DELAY

IN AND AREA

TIMER 1

TIMER 2

TIMER 3

TIMER 4

CLIENT ID

SYSTEM FUNCTIONS

MAX AL CYCLE

SYS AL CYCLE

PANEL TAMPER

SIREN TAMPER

TAMP AL MODE

TROU AL MODE

COM TROU AL

BAT TRO ARM

ARM DLY AL

ENY/EXT BEEP

PANIC AL MOD

DURESS MOD

PWS ERR MAX

FACTORY RST

EOL R VALUE

FIRMWAREVER

SYSTEM TIMING

SIR AL DUR

SIR AL DLY

CHIME AL DUR

FIRE AL DUR

PANIC AL DUR

HOLDUP AL DU

MEDICL AL DU

AC LOSS DLY

PATROL DISARM

ZONE IN TEST

PROGRAM TIME

SYSTEM TIMERS

Timer 1–8

STATE

TYPE

START TIME

DAYS

HOLIDAYS

ARMING

FORCEDARM

ACCESS CODES

Access Code 1–99

STATE

LEVEL

ARMING

FORCED ARM

LINK1

LINK2

LINK3

LINK4

NEW CODE

DATE/TIME

TIME

104

DATE

SOL TO LEG

LEG TO SOL

EXPIRE

HOLIDAY

Holiday 1–20

TIME

TEL NUMBER

TEL NUM

Tel number 1–8

STATE

STOP CYCLE

SMS NUM

SMS number 1–8

STATE

SYSTEM

CREDIT

SMS TIME

AREA

EVENT

SIN NUM

REMOTE SERVICE

STATE

MONITOR STATION

Monitor 1–3

STATE

MODE

TEST DATE

TEST TIME

VOCAL MESSAGES

Vocal message 1–88

STATE

CATEGORIES

AREA

ZONE

SYSTEM

SMS MESSAGES

SMS message 1–377

DIGITAL FORMAT

TCP/IP NETWORK

DHCP

IP ADDRESS

SUBNET

GATEWAY

PORT

REMOTE CONF

LOG EVENT

2G/4G MODULE

2G/4G ENABLE

P2P ENABLE

LANGUAGE

Appendix 4 FAQ

1   Q: The Alarm Control Panel does not boot up after it is powered on.

    A: Possible reasons as below.
  - Power input is incorrect.
  - AC adapter damage that causes there is no 14.5V DC output.
  - No power input.
  - Program upgrading error.
  - Main board damage.

2   Q: The Alarm Control Panel automatically reboots several minutes after booting up, or it often crashes.

    A: Possible reasons as below.
  - The input voltage is not stable or too low.
  - Poor heat dissipation, too much dust, or the bad operating environment.
  - Hardware fault.

3   Q: Time display is not correct.

    A: Possible reasons as below.
  - Wrong setting.
  - Poor battery contact or low voltage.
  - Crystal oscillator working status is abnormal.

4   Q: Network connection is unstable.

    A: Possible reasons as below.
  - Network is not stable.
  - IP address conflicts.

5   Q: Alarm is not generated.

    A: Possible reasons as below.
  - Alarm setting is not correct.
  - Alarm wiring is not correct.
  - Alarm input signal is not correct.
  - There is no output activation duration set for the Area that the Zone belongs to.

6   Q: Keypad does not register correctly.

    A: Possible reasons as below.
  - Wrong connection between the Keypad and the Control Panel. Please connect to A1 port and B1 port on the Control Panel.
  - Check whether the Keypad 485 address is set to 0.
  - When multiple Keypads are connected to the Control Panel, their 485 addresses must be different.
  - Keypad hardware fault or Control Panel hardware fault.

7   Q: I forgot the access code.

    A: Restore to the factory default setting by moving both DIP 5 and DIP 6 to the ON position.

8   Q: The configuration cannot be restored to the factory default setting.

    A: The reason for this question is the parameter "FACTORY RST" is set to "NO" in the SYSTEM FUNCTIONS menu, so the DIP reset does not work. In this case, please return the Control Panel to the manufacturer.

9   Q: The battery cannot be charged, or it cannot be fully charged, or it is charged slowly.

    A: Possible reasons as below.

- The adapter that you use is not the original or the output voltage is not 14.5V DC.
- The adapter hardware is damaged. Please disconnect the adapter from the Control Panel, and then check whether the output voltage of the adapter is 14.5V DC.
- The charging circuit of mainboard is damaged.
- The battery is damaged.

10   Q: The Keypad has no response when pressing.

    A: Possible reasons as below.

- The main board is damaged.
- Wrong connection between RS-485 wires and the Control Panel or the connection becomes loose.
- Keypad DIP address setting is wrong.

11   Q: During exit delay countdown, why does the detector generate alarms?

    A: Possible reasons as below.

- During exit delay countdown, if the protection zone with IMMEDIATE arming is triggered, the detector generates alarms first and then resumes counting down if the countdown was not ended.
- During exit delay countdown, if the protection zone with DELAYED arming is triggered, the detector exits from countdown first. After the arming is successful, if the protection zone with DELAYED arming is triggered again, the enter countdown will start first, and then generate alarms.

    In conclusion, if you do not want the detector to generate alarms during exit delay countdown, set the protection zone to be Delay or Path type.