



FRESH USA
Security Systems & RFID Solutions

Wireless Alarm Notification System / GSM 4G / WiFi

USER & INSTALLATION MANUAL

Model FG90C- US | 4G + WiFi Alarm Panel



Dual-network resilience
WiFi + 4G connectivity

Alarm notification
SMS + phone call alerts

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Fresh USA Edition

Rev. 2026.08



1. Preface

Thank you for choosing the Fresh USA Wireless Alarm Notification System. The panel supports both WiFi and 4G cellular communication. If WiFi becomes unavailable, the system can continue communicating over 4G when an active SIM card is installed. It supports wired and wireless alarm devices, including motion detectors, door/window contacts, water-leak sensors, shock or glass-break sensors, panic buttons, key fobs and sirens.

2. Technical Information

Network	WiFi+4G/GPRS
Power Supply	3.7V/750mAh
Power Supply	DC 5V/2A
Alarm Current	<500mA
Working current	<250mA
Backup lithium battery	3.7V/1000mAh
4G Module information	● Supported frequency (US standard A7670SA) : GSM/GPRS/EDGE Frequency: 850/900/1800/1900 MHz; LTE frequency:LTE-FDD: B1/B2/B3/B4/B5/ B7/B8 /B28/B66 ● Supported frequency (EU&Asia standard A7670E) : GSM/GPRS/EDGE Frequency: 900/1800 MHz; LTE frequency:LTE-FDD: B1/B3/B5/B7/B8/B20 ● Supported frequency (Asia standard A7670C) : EGSM 900/DCS1800; LTE frequency:LTE-FDD: B1/B2/B3/B5/B8 LTF-TDD:B34/B38/B39/B30/B41 433mhz(868mhz for optional)Receiving and emitting frequency
WiFi frequency	2.4G



24*24mm Size Series Modules User Guide

Continents	Nations	Promotion Module	Sizes (mm)	Standard	(radio) band	Approve
Asian	Mainland China/ Hong Kong/Macau	A7670C	24*24	CAT1	3-mode 11-frequency	TA/CTA /CCC
	South-East Asia: Indonesia/India/Thailand /Laos/Malaysia /Singapore/Korea /Vietnam etc.	A7670C	24*24	CAT1	LTE-FD B1/B3/B5/B7 /B8/B20/. GSM/GPRS /EDGE 900 /1800 MHZ	CE REACH ROHS
European	UK/Germany/France/Italy /Belgium/Netherlands /Switzerland/Spain /Russia/Ukraine/Turkey /Portugal/Luxembourg /Serbia/Hungary/Austria /Finland/Sweden/Norway /Denmark/Greece etc.					
Continent	South Africa/Nigeria /Egypt etc.					
South America	Brazil/Argentina/Chile /Peru/Colombia, etc.	A7670SA	24*24	CAT1	LTE-FDD B1/B2/B3/B4 /B5/B7/B8 /B28/B66 GSM/GPRS /EDGE 850 /900/1800 /1900MHZ	REACH /ROHS /NCC /CE /RCM /FCC, etc
Oceania	Australia /New Zealand, etc.					
Asian	China-Taiwan					
North America	Canada /United States/Mexico	A7670SA	24*24	CAT1	Products not requiring certification in North America can be shipped A7670SA	
		SIM7070G	24*24	CAT-M	SIM7070G is available for products requiring certification in North America.	
Global Edition	Global Edition	A7670G	24*24	CAT1	Global LTE-FDD + LTE-TDD + 2G bands	



3. Key Features

WiFi + 4G dual-network communication

If WiFi becomes unavailable, the panel can continue communicating over 4G when an active SIM card is installed.

SMS and phone-call notifications

Store up to five phone numbers for alarm calls and up to five mobile numbers for SMS notifications.

8 wired input zones

Connect compatible wired sensors or voltage-free dry-contact outputs to Z1-Z8. Use GND as the common terminal.

99+ wireless devices

Supports wireless motion, door/window, water-leak, smoke, gas, CO, panic, keypad and siren accessories.

Rechargeable backup battery

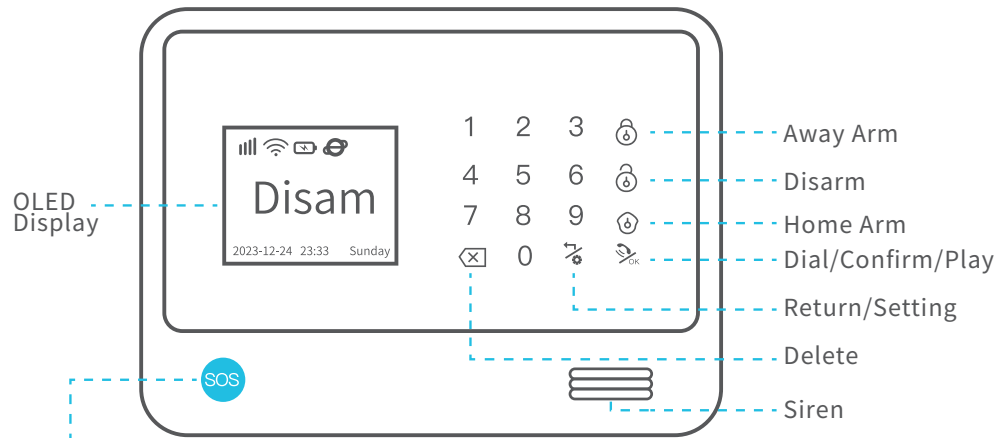
The built-in rechargeable battery keeps the panel operating during a short AC power interruption.

Remote control through compatible app

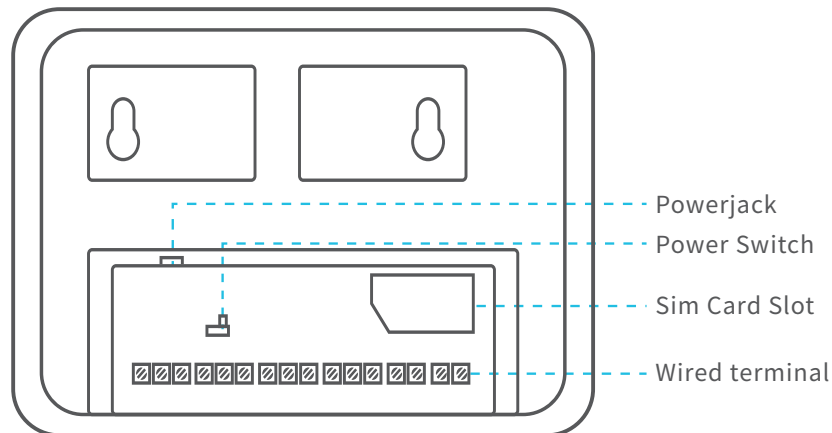
When network service is available, the system can be armed, disarmed and monitored remotely from the compatible mobile app.



4. Front & Back Panel View / Reader Connection



Long press SOS
button 3s to trigger
host alarm



Reader relay input - Normally Open (NO) dry contact only

Pink wire (NO) -> Z1 Brown wire (COM) -> GND Do not apply voltage to Z1/GND.

PINK / NO **BROWN / COM**



Eight wired zones

12V Power supply

Wired siren terminal

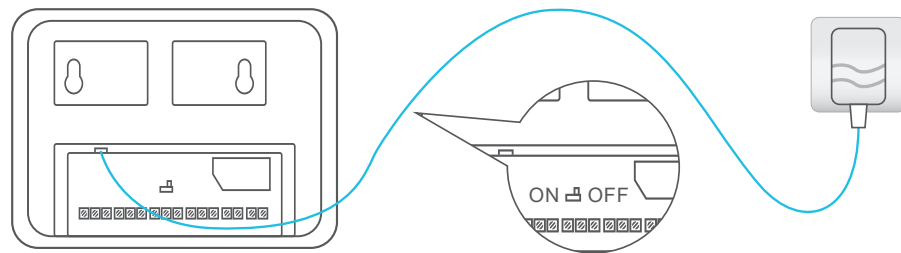


Table 1

Admin password (default0000)	Press  ,input admin password to enter alarm host setting menu.
User password(default1111)	Press  ,input user password to disarm the system

	Disarm	All the all sensors will not work except sensors in 24H defense line.
	Away Arm	All the wireless sensors will under arm status.
	Home Arm	Alarm sensors under the away arm defense line and 24 hours defense line are workable. The alarm sensor in home arm defense line sensors are disable.

7.Connect Wifi network for alarm panel



① Plug the AC adapter to a power outlet

② Then switch on the system

Main Menu
Device Learning
System Settings
WiFi Setting
DeviceList
Log
Upgrade-V2002
Machine Info

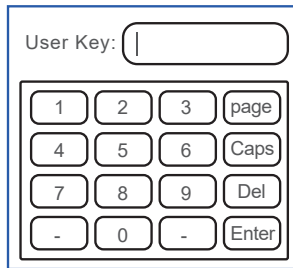
After log in to the main menu,choose"WiFi setting"

WiFi Setting
SSID: jianshu-TD
Password: jianshu123
Scan
Scan complete
OK

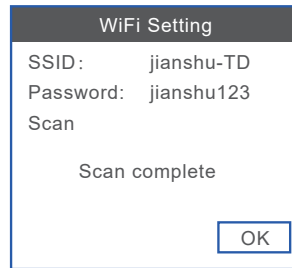
User may choose"scan" to search wifi network

WiFi Setting
SSID: 01:JIANSHU...
Password: 02:ChINAnET-3f3R
Scan 03:jianshu-TD
04:JIANSHU_ipc
05:meshtest
06:ColdenGCB

After scan the SSID,the alarm host will find all wifi network name.

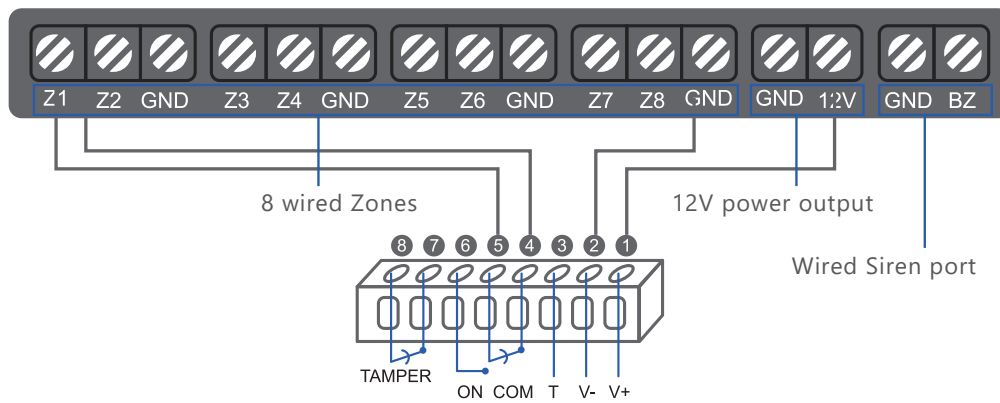


The keys on the left screen need to correspond to the keys on the right panel.

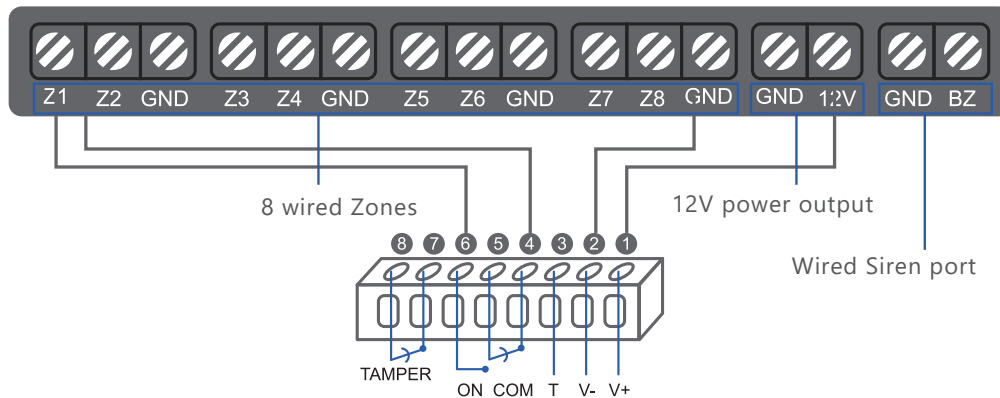


When wifi connect successfull , alarm host will display "Connect OK".

13.1. Code the wireless keypad at first step(just keypad available)



The default alarm is set by normally open
(the wiring diagram is shown in the figure above)



The default alarm is set by normally close
(the wiring diagram is shown in the figure above)



How to learn wireless door sensors

Main Menu
Device Learning
System Settings
WiFi Setting
DeviceList
Log
Upgrade-V2002
Machine Info

- 1 Log into the main setting menu and choose "device leaning"

Device Learning
Smart Learn
Siren Learn

- 2 Choose "smart learn"

Learning...
Tiger device to start learning
119

- 3 The screen will display "Learning..." and choose "door/window sensor"



Learning...
Detection succeeded!
Device ID: Oxa58d50a
Fire alarm
PIR beam...
Door/Wind...

- 4 Seperate the two parts of door/window sensor over than 2CM, to trigger it.

Device Learning
Type: <Door/Window>
Mode: Away
Name: Door/Window de
Location: Anywhere
Alarm delay: <NO>
OK

- 5 Press 2 and 8 to choose the mian menu, and press 4 and 6 to choose the sub-type.

How to learn wireless remote controllers

Main Menu
Device Learning
System Settings
WIFI Setting
DeviceList
Log
Upgrade-V2002
Machine Info

- 1 Log into the main setting menu and choose "device leaning"

Device Learning
Smart Learn
Siren Learn

- 1 Choose "smart learn"

Learning...
Tiger device to start learning
119

- 1 The screen will display "Learning..." and choose "remote".



Learning...	
Detection succeeded!	
Device ID:ox58d50a	
Fire alarm	Door/Wind...
IR beam...	

Device Learning	
Type:	<Door/Window>
Mode:	Away
Name:	Door/Window de
Location:	Anywhere
Alarm delay:	<NO>
OK	

1 press any button of remote controller to trigger it.

1 Press 2 and 8 to choose the mian menu,and press 4 and 6 to choose the sub-type.

How to learn wireless PIR motion sensor

Main Menu
Device Learning
System Settings
WIFI Setting
DeviceList
Log
Upgrade-V2002
Machine Info

Device Learning
Smart Learn
Siren Learn

Learning...	
Tiger device to start learning	
119	

1 Log into the main setting menu and choose "device leaning"

1 Choose "smart learn"

1 The screen will display "Learning..."and choose



Learning...	
Detection succeeded!	
Device ID: Oxa3f119	
Door/Wind...	PIR deceptor
Vibration...	

Device Learning	
Type:	<PIR deceptor>
Mode:	Away
Name:	PIR deceptor 05
Location:	Anywhere
Alarm delay:	<NO>
OK	

1 After connecting power for PIR motion sensor,take movement in front of motion sensor to trigger it,and choose "PIR detector"

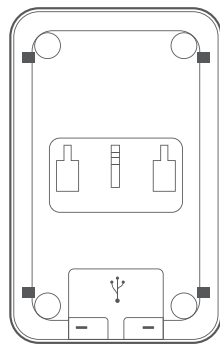
1 Press 2 and 8 to choose the mian menu,and press 4 and 6 to choose the sub-type.



8. How to code the wireless keypad with alarm panel

Host menu operation, the host into the "intelligent learning" page of the process needs to optimize the intelligent learning, the doorbell is to send an alarm signal device, display triggered accessories to learn, there will be 120 seconds of searching for connecting the device time, this time to match the operation of the alarm, press the button on the front of the pairing.

① Pairing Wireless Keyboard



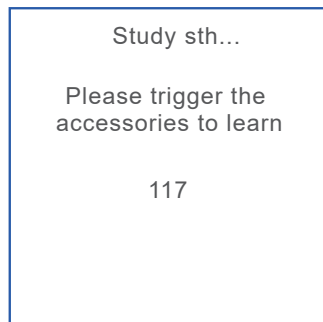
① boot up

Main menu
Accessory Learning
System settings
WiFi setup
Accessory List
journal
Upgrade - V2001
Equipment Information

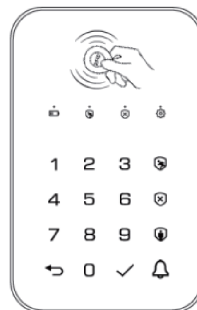
② Host Menu Accessory Learning

Accessory Learning
Intelligent Learning
Alarm Learning

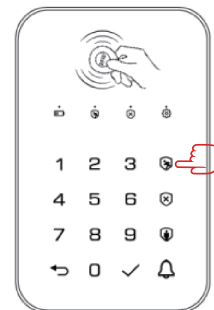
③ Host access to the "Smart Learning" page



④ Trigger fittings are learning



⑤ Click on the finger direction buttons. Press the 1234 user code, press the ↵



⑥ After entering the "1234" user password, tap ↵ to trigger the keypad to enter "pairing mode", the keypad will emit "beep, beep" two times to enter the pairing state.



9. WiFi settings

Main Menu
Device Learning
System Settings
WiFi Setting
DeviceList
Log
Upgrade-V2002
Machine Info

1 Click WIFI Setting.

WiFi Setting
SSID: jianshu-TD
Password: jianshu123
Scan
OK

2 Before joining a WiFi, you need to choose to scan the WiFi that is the closest and best network at the moment.

WiFi Setting
SSID: jianshu-TD
Password: jianshu123
Scan
Scan complete
OK

3 After selecting scan confirmation, click Confirm after selecting the SSID.

WiFi Setting
SSID: 01:JIANSHU...
Password: 02:ChINAnET-3f3R
Scan 03:jianshu-TD
04:JIANSHU_ipc
05:meshtest
06:ColdenGCB

4 Then the wifi will be sorted according to the network speed from fast to slow, just select wifi.

WiFi Setting
SSID: jianshu-TD
Password: jianshu123
SCan
OK

5 After entering the password, click Confirm.

10. Administrator password and user password settings

Main Menu
Device Learning
System Settings
WiFi Setting
DeviceList
Log
Upgrade-V2002
Machine Info

1 Click System Settings.

Setting
Password
Time Set
Phone Number
Volume: <10>
language: <English>
Default Setting
OK

1 Open the main menu page, click System Settings, and select a password.

Password
User: 1111
Admin: 0000
ON/OFF: <ON>
OK

1 User password, Admin password, ON/OFF (you need to enter the administrator password to enter the settings after turning it on)

Admin Key:
1 2 3 page
4 5 6 Caps
7 8 9 Del
- 0 - Enter

4 User password page input

Admin Key: 0 0 0 0
1 2 3 page
4 5 6 Caps
7 8 9 Del
- 0 - Enter

5 System password input (administrator password)

Password
User: 1111
Admin: -
ON/OFF: <YES>
OK

6 After all settings are completed, select Confirm in the lower right corner.



11. Restore factory settings



- 1 Click the Settings button on the home page to open the main menu.

Main Menu
Device Learning
System Settings
WiFi Setting
DeviceList
Log
Upgrade-V2002
Machine Info

- 2 Click System Settings.

Setting
Password
Time Set
Phone Number
Volume: <10>
language: <English>
Default Setting
OK

- 3 Select the Default Setting and click OK.

Restore Factory
Delete Accessories: <YES>
Clear Settings: <YES>
Clear Log: <YES>
OK

- 1 Choose YES of Delete Accessories, Clear Settings and Clear Log. Then click OK.

12. Set time

Main Menu
Device Learning
System Settings
WiFi Setting
DeviceList
Log
Upgrade-V2002
Machine Info

- 1 Click System Settings

Setting
Password
Time Set
Phone Number
Volume: <10>
language: <English>
Default Setting
OK

- 2 Select the Time Set, and click on the OK.

Time Set
Arm delay: <0>(S)
Alarm delay: <0>(S)
Alarming time: <20>(S)
Auto Arm1: 00:00 00:00
Auto Arm2: 00:00 00:00
Auto Arm3: 00:00 00:00
Auto Arm4: 00:00 00:00
OK

- 3 Set the time of Alarm delay, alarm delay, Alarming time and Auto Arm.

13. Number setting

Main Menu
Device Learning
System Settings
WiFi Setting
DeviceList
Log
Upgrade-V2002
Machine Info

- 1 Click System Settings

Setting
Password
Time set
Phone Number
Volume: <10>
language: <English>
Default setting
OK

- 2 Click Phone Number and click OK.

Phone Number
SMS1: 18507063951 <ON>
SMS2:
Tel 1: <ON>
Tel 2:
Tel 3:
Tel 4:
Tel 5: OK

- 3 After the SMS number is set, the alarm host will send the text message to the mobile phone. The mobile phone number can be set to multiple. After setting, click OK to confirm.



14. Volume setting

Main Menu
Device Learning
System Settings
WiFi Setting
DeviceList
Log
Upgrade-V2002
Machine Info

① Click System Settings.

Setting
Password
Time Set
Phone Number
Volume: <10>
language: <English>
Default Setting
OK

② Select the volume, left is to reduce the 4 key, right is increase the 6 key. After the setting, click OK to confirm.

15. Switch over the host language settings

Main Menu
Device Learning
System Settings
WiFi Setting
DeviceList
Log
Upgrade-V2002
Machine Info

① Click System Settings.

Setting
Password
Time Set
Phone Number
Volume: <50>
language: <English>
Default Setting
OK

② Key 4 is to left and key 6 is to right. Press the keys 4 and 6, select the language you need, and click OK to confirm.

16. List of accessories

Main Menu
Device Learning
System Settings
WiFi Setting
DeviceList
Log
Upgrade-V2002
Machine Info

① Open the main menu and click on the device list

Accessory Info
Siren alarm 05 24 Hour
SOS button 06 24 Hour
Doorbell 07 24 Hour
Keypad 05 24 Hour
Door/Window...Away
Remote 11 24 Hour
<Page:1/Total:2>

② Select the corresponding accessory and press the OK key on the host to open the accessory information.

Accessory Info
Type: <SS02B strobe>
Mode: <24 Hour>
Name: Siren alarm 06
Location: Anywhere
Alarm delay: <NO>
Delete
OK

③ There are Type, Mode, Name, Location, Alarm delay. Type corresponding to the model of accessories, generally has been completed, do not need to change.



Accessory Info	
Type:	<SS02B strobe>
Mode:	<24 Hour>
Name:	Siren alarm 06
Location:	Anywhere
Alarm delay:	<NO>
Delete	OK

4 Mode : 24 hours defense line, occupy home defense line, leave home defense line.

Accessory Info	
Type:	<SS02B strobe>
Mode:	<24 Hour>
Name:	Siren alarm 06
Location:	Anywhere
Alarm delay:	<NO>
Delete	OK

5 Name: It can be set freely

Accessory Info	
Type:	<SS02B strobe>
Mode:	<24 Hour>
Name:	Siren alarm 06
Location:	Anywhere
Alarm delay:	<NO>
Delete	OK

6 Location: Set up corresponding address

Accessory Info	
Type:	<SS02B strobe>
Mode:	<24 Hour>
Name:	Siren alarm 06
Location:	Anywhere
Alarm delay:	<NO>
Delete	OK

7 Alarm delay: You need to set the alarm delay in the Time Setting first, and then turn on the alarm delay in the Accessory Info.

Accessory Info	
Type:	<SS02B strobe>
Mode:	<24 Hour>
Name:	Siren alarm 06
Location:	Anywhere
Alarm delay:	<NO>
Delete	OK

8 Choose Delete and click OK.

Accessory Info	
Type:	<SS02 outdoor>
Mode:	<24 Hour>
Name:	Siren alarm 06
Location:	Anywhere
Alarm delay:	<NO>
Delete	OK

Are you delete?
Cancel OK

9 Are you sure delete, there are Cancel and OK for your option. Click according to your needs.

17. Log settings

Main Menu
Device Learning
System Settings
WiFi Setting
DeviceList
Log
Upgrade-V2002
Machine Info

1 Click Log.

Log Info
Alarm log
Arm/Disarm log
System log

2 Click Alarm log.

Alarm log
[01/10 18:12] 04 is triggered
[01/10 18:10] 04 is triggered
[01/10 18:09] 04 is triggered
[01/10 18:09] 04 is triggered
[01/10 18:07] 04 is triggered
[01/10 12:44] is...
[Page:1/Total:13]

3 Check alarm log information.

System log
[01/11 09:51]System online
[01/11 09:49]System reset
[01/11 09:39]System online
[01/10 18:12]System reset
[01/10 18:05]System online
[01/10 13:35]System reset
[Page:1/Total:6]

4 Check the system log information.



18. Upgrade the version

Main Menu
WIFI Setting
Device Learning
DeviceList
Log
Upgrade
Machine Info-V2002
System Settings

① Click Machine Info.



② 2.After opening, there is a QR code that can be connected to the mobile phone App. Scan the code, the first line below is the SN code, and the second line is the version number.



Quick Setup & Reader Integration

Recommended setup for Fresh USA reader alarm notifications

1

Power and network

Connect the 5V / 2A power adapter and switch the panel ON. Connect WiFi from Main Menu > WiFi Setting. If 4G backup is required, install an active compatible SIM card.

2

Connect the reader dry contact

Use the reader's voltage-free relay output only. Connect the pink NO wire to Z1 and the brown COM wire to GND. The reader relay closing the dry contact will trigger Zone 1.

3

Set notification numbers

Open System Settings > Phone Number. Enter the mobile numbers that should receive SMS alerts and the phone numbers that should receive alarm calls.

4

Choose the operating mode

For a reader input that must remain active at all times, configure Zone 1 as a 24-hour zone. Otherwise, use the desired Away / Home arming behavior.

5

Test the system

Trigger the reader relay and confirm that the panel receives the Zone 1 event. Verify the local alarm indication and the required SMS / phone-call notification before putting the system into service.

IMPORTANT - DRY CONTACT INPUT

Z1 and GND are alarm-input terminals. Do not connect 12V, reader power, or any other external voltage to these terminals.



FRESH USA, INC.

Security Systems | Access Control | RFID Tracking | Anti-Theft

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